

# Pakistan - Enterprise Survey 2013, Innovation Follow-up Survey

**World Bank**

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# Sampling

## Sampling Procedure

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Respondents were randomly selected from a list of establishments interviewed for Pakistan 2013 Enterprise Survey. The goal was to have a final sample of 75% of the original businesses.

## Weighting

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Weights for the innovation survey are calculated from the original Enterprise Survey weights through upwards adjustment by multiplying with a cell-specific factor which equals the proportion of originally completed ES interviews to completed innovation interviews.

# Questionnaires

No content available

## Data Collection

### Data Collection Dates

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<b>Start</b>	<b>End</b>	<b>Cycle</b>
2013-11	2014-08	N/A

### Data Collection Mode

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Face-to-face [f2f]

# Data Processing

No content available

# Data Appraisal

No content available

# File Description

# Variable List

**pakistan\_2013\_innovation\_data\_**

## Content

Cases 696

Variable(s) 214

Structure Type:  
Keys: ()

Version

Producer

Missing Data

**Variables**

ID	Name	Label	Type	Format	Question
V1	idstd	WEB STD FIRMID	contin	numeric	
V2	CompanyID	Company ID	contin	numeric	
V3	a6a	Sampling Size	discrete	numeric	
V4	a6b	Screener Size	discrete	numeric	
V5	b5		discrete	numeric	
V6	d1a2	First Product/Service Isic Code	contin	numeric	
V7	ha0	Q6. Questionnaire:	discrete	numeric	
V8	ha14d		contin	numeric	
V9	ha14m	Q7_Month (Q7. Interview start timing)	discrete	numeric	
V10	ha14y		discrete	numeric	
V11	ha14h		discrete	numeric	
V12	ha14min		contin	numeric	
V13	ha0b	Q8. Same respondent as the ES	discrete	numeric	
V14	hb1	Q9. From fiscal year 2009/2010 thru 2011/2012, did this establishment introduce	discrete	numeric	From fiscal year 2009/2010 thru 2011/2012, did this establishment introduce any innovative product or service?
V15	hb2		discrete	numeric	From fiscal year 2009/2010 thru 2011/2012, how many innovative products or services did this establishment introduce?
V16	hb3		discrete	numeric	In fiscal year 2011/2012, what percentage of this establishment's total sales was represented by sales from all innovative products or services introduced from fiscal year 2009/2010 thru 2011/2012?
V17	hb5x	Q12	discrete	character	Please describe in detail the main innovative product or service that this establishment introduced from fiscal year 2009/2010 thru 2011/2012.
V18	hb5x1	Q12	discrete	character	Please describe in detail the main innovative product or service that this establishment introduced from fiscal year 2009/2010 thru 2011/2012.
V19	hb5x2	Q12	discrete	character	Please describe in detail the main innovative product or service that this establishment introduced from fiscal year 2009/2010 thru 2011/2012.

ID	Name	Label	Type	Format	Question
V20	hb5x3	Q12	discrete	character	Please describe in detail the main innovative product or service that this establishment introduced from fiscal year 2009/2010 thru 2011/2012.
V21	hb5x4	Q12	discrete	character	Please describe in detail the main innovative product or service that this establishment introduced from fiscal year 2009/2010 thru 2011/2012.
V22	hb6		discrete	numeric	In which year did this establishment introduce the main innovative product or service?
V23	hb4		discrete	numeric	In fiscal year 2011/2012, what percentage of this establishment's total sales was represented by sales from the main innovative product or service?
V24	hb7	Q15. Please describe in detail how the main innovative product or service is dif	discrete	numeric	Please describe in detail how the main innovative product or service is different than the most similar product or service, if any, previously produced by this establishment
V25	hb7x		discrete	character	Please describe in detail how the main innovative product or service is different than the most similar product or service, if any, previously produced by this establishment
V26	hb7x1		discrete	character	Please describe in detail how the main innovative product or service is different than the most similar product or service, if any, previously produced by this establishment
V27	hb7x2		discrete	character	Please describe in detail how the main innovative product or service is different than the most similar product or service, if any, previously produced by this establishment
V28	hb7x3		discrete	character	Please describe in detail how the main innovative product or service is different than the most similar product or service, if any, previously produced by this establishment
V29	hb9a	Does it have completely new functions? (READ EACH OPTION ALOUD Q16. I will now a	discrete	numeric	I will now ask you a few questions about the main innovative product or service compared with all other products and services already produced in this establishment. Does it have completely new functions?
V30	hb9b	Is it cheaper to produce or offer? (READ EACH OPTION ALOUD Q16. I will now ask y	discrete	numeric	I will now ask you a few questions about the main innovative product or service compared with all other products and services already produced in this establishment. Is it cheaper to produce or offer?
V31	hb9c	Is it a better quality product or service? (READ EACH OPTION ALOUD Q16. I will n	discrete	numeric	I will now ask you a few questions about the main innovative product or service compared with all other products and services already produced in this establishment. Is it a better quality product or service?
V32	hb9d	Does it use different inputs? (READ EACH OPTION ALOUD Q16. I will now ask you a	discrete	numeric	I will now ask you a few questions about the main innovative product or service compared with all other products and services already produced in this establishment. Does it use different inputs?
V33	hb9f	Is it based on a technology or industrial design not already used by this establ	discrete	numeric	I will now ask you a few questions about the main innovative product or service compared with all other products and services already produced in this establishment. Is it based on a technology or industrial design not already used by this establishment?
V34	hb10a	To replace a product or service offered by this establishment? (READ EACH OPTION	discrete	numeric	Do any of the following describe why this establishment introduced this main innovative product: To replace a product or service offered by this establishment

ID	Name	Label	Type	Format	Question
V35	hb10b	To extend the range of products or service offered by this establishment? (READ	discrete	numeric	Do any of the following describe why this establishment introduced this main innovative product: To extend the range of products or service offered by this establishment
V36	hb10c	To open up new markets or increase market share? (READ EACH OPTION ALOUD Q17. Do	discrete	numeric	Do any of the following describe why this establishment introduced this main innovative product: To open up new markets or increase market share
V37	hb10d	To decrease the cost of production or offering the service? (READ EACH OPTION AL	discrete	numeric	Do any of the following describe why this establishment introduced this main innovative product: To decrease the cost of production or offering the service
V38	hb10e	To offer products or service already offered by competitors? (READ EACH OPTION A	discrete	numeric	Do any of the following describe why this establishment introduced this main innovative product: To offer products or service already offered by competitors
V39	hb10f	To comply with regulations or standards (e.g. safety or environmental regulatio	discrete	numeric	Do any of the following describe why this establishment introduced this main innovative product: To comply with regulations or standards (e.g. safety or environmental regulations)
V40	hb10g	To deal with a decrease in the demand for other products or service? (READ EACH	discrete	numeric	Do any of the following describe why this establishment introduced this main innovative product: To deal with a decrease in the demand for other products or service
V41	hb11a	New to the local market? ([READ OUT] Q18. When this main innovative product or s	discrete	numeric	When this main innovative product or service was introduced by this establishment, was it New to the local market
V42	hb11b	New to the national market? ([READ OUT] Q18. When this main innovative product o	discrete	numeric	When this main innovative product or service was introduced by this establishment, was it New to the national market
V43	hb11c	New to the international market? ([READ OUT] Q18. When this main innovative prod	discrete	numeric	When this main innovative product or service was introduced by this establishment, was it New to the international market
V44	hb12	SHOW CARD 2 Q19. How did this establishment develop the idea for this main innov	discrete	numeric	How did this establishment develop the idea for this main innovative product or service?
V45	hb13	Q20. Was the main innovative product or service developed entirely by this estab	discrete	numeric	Was the main innovative product or service developed entirely by this establishment?
V46	hb14	Q21. Was the main innovative product or service developed entirely by another fi	discrete	numeric	Was the main innovative product or service developed entirely by another firm (e.g. headquarter, sister company or any other firm within your company or independent from your company)?
V47	hb15a	Any domestic firms? (READ EACH OPTION ALOUD Q22. Was the main innovative product	discrete	numeric	Was the main innovative product or service developed in cooperation with any of the following? Any domestic firms
V48	hb15b	Any foreign firms or a foreign-owned parent firm? (READ EACH OPTION ALOUD Q22. W	discrete	numeric	Was the main innovative product or service developed in cooperation with any of the following? Any foreign firms or a foreign-owned parent firm
V49	hb15c	Domestic academic or research institutions? (READ EACH OPTION ALOUD Q22. Was the	discrete	numeric	Was the main innovative product or service developed in cooperation with any of the following? Domestic academic or research institutions
V50	hb15d	Foreign academic or research institutions? (READ EACH OPTION ALOUD Q22. Was the	discrete	numeric	Was the main innovative product or service developed in cooperation with any of the following? Foreign academic or research institutions

ID	Name	Label	Type	Format	Question
V51	hb15e	Private consulting company or individuals? (READ EACH OPTION ALOUD Q22. Was the	discrete	numeric	Was the main innovative product or service developed in cooperation with any of the following? Private consulting company or individuals
V52	hb15f	Government? (READ EACH OPTION ALOUD Q22. Was the main innovative product or serv	discrete	numeric	Was the main innovative product or service developed in cooperation with any of the following? Government
V53	hb16	Q23. Were employees hired specifically for the purpose of developing the main in	discrete	numeric	Were employees hired specifically for the purpose of developing the main innovative product or service?
V54	hb17	Q24. From fiscal year 2009/2010 thru 2011/2012, as a consequence of introducing	discrete	numeric	From fiscal year 2009/2010 thru 2011/2012, as a consequence of introducing any innovative product or service, did the number of skilled workers employed by the establishment increase, decrease or remain the same?
V55	hb18	Q25. From fiscal year 2009/2010 thru 2011/2012, as a consequence of introducing	discrete	numeric	From fiscal year 2009/2010 thru 2011/2012, as a consequence of introducing any innovative product or service, did the number of unskilled workers employed by the establishment increase, decrease or remain the same?
V56	hb19a	Abandoned or suspended before completion (READ EACH OPTION ALOUD Q26. From fisca	discrete	numeric	From fiscal year 2010 thru 2012, did this establishment attempt to develop an innovative product or service that was Abandoned or suspended before completion
V57	hb19b	Still ongoing at the end of fiscal year 2011/2012 (READ EACH OPTION ALOUD Q26. F	discrete	numeric	From fiscal year 2009/2010 thru 2011/2012, did this establishment attempt to develop an innovative product or service that was Still ongoing at the end of fiscal year 2011/2012
V58	hc1	SHOW CARD 3 Q27. From fiscal year 2009/2010 thru 2011/2012, did this establishme	discrete	numeric	From fiscal year 2009/2010 thru 2011/2012, did this establishment introduce any innovative methods of manufacturing products or offering services?
V59	hc2	SHOW CARD 4 Q28. From fiscal year 2009/2010 thru 2011/2012, did this establishme	discrete	numeric	From fiscal year 2009/2010 thru 2011/2012, did this establishment introduce any innovative logistics, delivery, or distribution methods for inputs, products, or services?
V60	hc3	SHOW CARD 5 Q29. From fiscal year 2009/2010 thru 2011/2012, did this establishme	discrete	numeric	From fiscal year 2009/2010 thru 2011/2012, did this establishment introduce any innovative supporting activity for processes, such as maintenance systems or operations for purchasing, accounting, or computing?
V61	hc4	Q30. INTERVIEWER, PLEASE MARK THE FOLLOWING BASED ON THE ABOVE 3 QUESTIONS	discrete	numeric	
V62	hc5x		discrete	character	Please describe in detail this establishment's main innovative process
V63	hc5x1		discrete	character	Please describe in detail this establishment's main innovative process
V64	hc5x2		discrete	character	Please describe in detail this establishment's main innovative process
V65	hc5x3		discrete	character	Please describe in detail this establishment's main innovative process
V66	q32	Q32. In which year did this establishment introduce this most important innovati	discrete	numeric	
V67	hc6		discrete	numeric	In which year did this establishment introduce this most important innovative process?

ID	Name	Label	Type	Format	Question
V68	hc7		discrete	numeric	Please describe in detail how the innovative process is different from the most similar process, if any, that is or was used by this establishment. The process is completely new, there is no similar process
V69	hc7x		discrete	character	Please describe in detail how the innovative process is different from the most similar process, if any, that is or was used by this establishment
V70	hc7x1		discrete	character	Please describe in detail how the innovative process is different from the most similar process, if any, that is or was used by this establishment
V71	hc7x2		discrete	character	Please describe in detail how the innovative process is different from the most similar process, if any, that is or was used by this establishment
V72	hc7x3		discrete	character	Please describe in detail how the innovative process is different from the most similar process, if any, that is or was used by this establishment
V73	hc8a	Automate manual processes, partially or fully? (READ EACH OPTION ALOUD Q34. Does	discrete	numeric	Does the most important innovative process Automate manual processes, partially or fully?
V74	hc8b	Adapt a technology or method previously used by this establishment? (READ EACH O	discrete	numeric	Does the most important innovative process Adapt a technology or method previously used by this establishment?
V75	hc8c	Introduce a new technology or method? (READ EACH OPTION ALOUD Q34. Does the most	discrete	numeric	Does the most important innovative process Introduce a new technology or method?
V76	hc8d	Use a more efficient technology or method already used by this establishment? (R	discrete	numeric	Does the most important innovative process: Use a more efficient technology or method already used by this establishment
V77	hc9	Q35. Is the most important innovative process associated with an innovative prod	discrete	numeric	Is the most important innovative process associated with an innovative product or service introduced by this establishment?
V78	hc10a	To increase the quality of products or services ? (READ EACH OPTION ALOUD Q36. D	discrete	numeric	Do any of the following describe why this establishment introduced the most important innovative process? To increase the quality of products or services
V79	hc10b	To increase the total production or amount of services offered? (READ EACH OPTI	discrete	numeric	Do any of the following describe why this establishment introduced the most important innovative process? To increase the total production or amount of services offered
V80	hc10c	To increase the flexibility of production or offering service? (READ EACH OPTIO	discrete	numeric	Do any of the following describe why this establishment introduced the most important innovative process? To increase the flexibility of production or offering service
V81	hc10d	To increase the speed of production or offering service? (READ EACH OPTION ALOUD	discrete	numeric	Do any of the following describe why this establishment introduced the most important innovative process? To increase the speed of production or offering service
V82	hc10e	To increase the speed of delivery to the customer? (READ EACH OPTION ALOUD Q36.	discrete	numeric	Do any of the following describe why this establishment introduced the most important innovative process? To increase the speed of delivery to the customer
V83	hc10f	To decrease the cost of production or offering service? (READ EACH OPTION ALOUD	discrete	numeric	Do any of the following describe why this establishment introduced the most important innovative process? To decrease the cost of production or offering service

ID	Name	Label	Type	Format	Question
V84	hc10g	To reduce waste or errors (defect rate or rejection rate )? (READ EACH OPTION AL	discrete	numeric	Do any of the following describe why this establishment introduced the most important innovative process? To reduce waste or errors (defect rate or rejection rate )
V85	hc10h	To comply with regulations or standards (e.g. safety or environmental regulatio	discrete	numeric	Do any of the following describe why this establishment introduced the most important innovative process? To comply with regulations or standards (e.g. safety or environmental regulations)
V86	hc11a	New to the local market? (READ EACH OPTION ALOUD Q37. When the most important in	discrete	numeric	When the most important innovative process was introduced in this establishment, was it New to the local market
V87	hc11b	New to the national market? (READ EACH OPTION ALOUD Q37. When the most important	discrete	numeric	When the most important innovative process was introduced in this establishment, was it New to the national market
V88	hc11c	New to the international market? (READ EACH OPTION ALOUD Q37. When the most impo	discrete	numeric	When the most important innovative process was introduced in this establishment, was it New to the international market
V89	hc12	SHOW CARD 6 Q38. How did this establishment develop the idea for this most impor	discrete	numeric	How did this establishment develop the idea for this most important innovative process?
V90	hc13	Q39. Was the most important innovative process developed entirely by this establ	discrete	numeric	Was the most important innovative process developed entirely by this establishment?
V91	hc14	Q40. Was the most important innovative process developed entirely by another fir	discrete	numeric	Was the most important innovative process developed entirely by another firm (e.g. headquarter, sister company or any other firm within your company or independent from your company)?
V92	hc15a	Any domestic firms? (READ EACH OPTION ALOUD Q41. Was the most important innovati	discrete	numeric	Was the most important innovative process developed in cooperation with any of the following?
V93	hc15b	Any foreign firms or a foreign-owned parent firm? (READ EACH OPTION ALOUD Q41. W	discrete	numeric	Was the most important innovative process developed in cooperation with any of the following?
V94	hc15c	Domestic academic or research institutions? (READ EACH OPTION ALOUD Q41. Was the	discrete	numeric	Was the most important innovative process developed in cooperation with any of the following?
V95	hc15d	Foreign academic or research institutions? (READ EACH OPTION ALOUD Q41. Was the	discrete	numeric	Was the most important innovative process developed in cooperation with any of the following?
V96	hc15e	Private consulting company or individuals? (READ EACH OPTION ALOUD Q41. Was the	discrete	numeric	Was the most important innovative process developed in cooperation with any of the following?
V97	hc15f	Government? (READ EACH OPTION ALOUD Q41. Was the most important innovative proce	discrete	numeric	Was the most important innovative process developed in cooperation with any of the following?
V98	hc16	Q42. Were employees hired specifically for the purpose of developing the most im	discrete	numeric	Were employees hired specifically for the purpose of developing the most important innovative process?
V99	hc17	Q43. From fiscal year 2009/2010 thru 2011/2012, as a consequence of introducing	discrete	numeric	From fiscal year 2009/2010 thru 2011/2012, as a consequence of introducing any innovative processes, did the number of skilled workers employed by the establishment increase, decrease or remain the same?

ID	Name	Label	Type	Format	Question
V100	hc18	Q44. From fiscal year 2009/2010 thru 2011/2012, as a consequence of introducing	discrete	numeric	From fiscal year 2009/2010 thru 2011/2012, as a consequence of introducing any innovative processes, did the number of unskilled workers employed by the establishment increase, decrease or remain the same?
V101	hd1a	Number of employees reporting directly to Top Manager in fiscal year 2011/2012 (	discrete	numeric	In fiscal year 2011/2012, how many employees reported directly to the Top Manager of this establishment? An employee who reports directly implies the employee meets with the Top Manager on a regular basis (middle manager).
V102	hd1b	Number of employees reporting directly to Top Manager in fiscal year 2009/2010 (	discrete	numeric	In fiscal year 2009/2010, how many employees reported directly to the Top Manager of this establishment?
V103	hd2a	Number of layers of direct reporting in fiscal year 2011/2012 (Number)	discrete	numeric	In fiscal year 2011/2012, how many layers of direct reporting were there in this establishment from the Top Manager down to the lowest-level of employee?
V104	hd2b	Number of layers of direct reporting in fiscal year 2009/2010 (Number)	discrete	numeric	In fiscal year 2009/2010, how many layers of direct reporting were there in this establishment from the Top Manager down to the lowest-level of employee?
V105	hd3a	Create a new unit or department ? (READ EACH OPTION ALOUD Q47. From fiscal year	discrete	numeric	From fiscal year 2009/2010 thru 2011/2012, did the establishment make any changes in its organizational structure in any of the following ways: Create a new unit or department
V106	hd3b	Dissolve any units or department? (READ EACH OPTION ALOUD Q47. From fiscal year	discrete	numeric	From fiscal year 2009/2010 thru 2011/2012, did the establishment make any changes in its organizational structure in any of the following ways: Dissolve any units or department
V107	hd3c	Merge any units or department? (READ EACH OPTION ALOUD Q47. From fiscal year 200	discrete	numeric	From fiscal year 2009/2010 thru 2011/2012, did the establishment make any changes in its organizational structure in any of the following ways: Merge any units or department
V108	hd7	Q48. From fiscal year 2009/2010 thru 2011/2012, did this establishment contract	discrete	numeric	From fiscal year 2009/2010 thru 2011/2012, did this establishment contract other firms to perform any activities previously done in-house (outsourcing)?
V109	hd8	Q49. From fiscal year 2009/2010 thru 2011/2012, did this establishment start doi	discrete	numeric	From fiscal year 2009/2010 thru 2011/2012, did this establishment start doing in-house any activities previously contracted to other firms (insourcing)?
V110	hd4	Q50. From fiscal year 2009/2010 thru 2011/2012, did this establishment introduce	discrete	numeric	From fiscal year 2009/2010 thru 2011/2012, did this establishment introduce any change in the method of hiring employees, excluding managerial and supervisory staff?
V111	hd5	Q51. From fiscal year 2009/2010 thru 2011/2012, did this establishment introduce	discrete	numeric	From fiscal year 2009/2010 thru 2011/2012, did this establishment introduce any change in the method of hiring managerial and supervisory staff?
V112	hd6a	Suppliers or customers? (READ EACH OPTION ALOUD Q52. From fiscal year 2009/2010	discrete	numeric	From fiscal year 2009/2010 thru 2011/2012, did the manager(s) at this establishment learn about management practices from Suppliers or customers
V113	hd6b	Trade associations or workshops? (READ EACH OPTION ALOUD Q52. From fiscal year 2	discrete	numeric	From fiscal year 2009/2010 thru 2011/2012, did the manager(s) at this establishment learn about management practices from Trade associations or workshops
V114	hd6c	New employees ? (READ EACH OPTION ALOUD Q52. From fiscal year 2009/2010 thru 201	discrete	numeric	From fiscal year 2009/2010 thru 2011/2012, did the manager(s) at this establishment learn about management practices from New employees
V115	hd6d	Competitors? (READ EACH OPTION ALOUD Q52. From fiscal year 2009/2010 thru 2011/2	discrete	numeric	From fiscal year 2009/2010 thru 2011/2012, did the manager(s) at this establishment learn about management practices from Competitors

ID	Name	Label	Type	Format	Question
V116	hd6e	Consultants? (READ EACH OPTION ALOUD Q52. From fiscal year 2009/2010 thru 2011/2	discrete	numeric	From fiscal year 2009/2010 thru 2011/2012, did the manager(s) at this establishment learn about management practices from Consultants
V117	hd9a	SHOW CARD 8 Q53. In fiscal year 2011/2012 what best describes what happened at t	discrete	numeric	In fiscal year 2011/2012 what best describes what happened at this establishment when a problem arose in the production process, such as a quality defect or machinery or equipment break-downs?
V118	hd9b	SHOW CARD 8 Q54. In fiscal year 2009/2010 what best describes what happened at t	discrete	numeric	In fiscal year 2009/2010 what best describes what happened at this establishment when a problem arose in the production process, such as a quality defect or machinery or equipment break-downs?
V119	hd10a	Q55. In fiscal year 2011/2012, were key performance indicators monitored at this	discrete	numeric	In fiscal year 2011/2012, were key performance indicators monitored at this establishment? Examples of performance indicators are metrics on production, cost, waste, quality, inventory, energy, absenteeism and on-time delivery.
V120	hd10b	Q56. In fiscal year 2011/2012, how many key performance indicators were monitore	discrete	numeric	In fiscal year 2011/2012, how many key performance indicators were monitored at this establishment?
V121	hd10c	SHOW CARD 9 Q57. In fiscal year 2011/2012, how frequently were the key performan	discrete	numeric	In fiscal year 2011/2012, how frequently were the key performance indicators reviewed by managers at this establishment?
V122	hd11a	Q58. In fiscal year 2009/2010, were key performance indicators monitored at this	discrete	numeric	In fiscal year 2009/2010, were key performance indicators monitored at this establishment?
V123	hd11b	Q59. In fiscal year 2011/2012, how many key performance indicators were monitore	discrete	numeric	In fiscal year 2009/2010, how many key performance indicators were monitored at this establishment?
V124	hd11c	SHOW CARD 9 Q60. In fiscal year 2011/2012, how frequently were the key performan	discrete	numeric	In fiscal year 2009/2010, how frequently were the key performance indicators reviewed by managers at this establishment?
V125	hd12a	SHOW CARD 10 Q61. In fiscal year 2011/2012, what best describes the time frame o	discrete	numeric	In fiscal year 2011/2012, what best describes the time frame of production targets at this establishment? (Production targets may include desired amounts of production, quality, efficiency, waste reduction, and on-time delivery).
V126	hd12b	Q62. In fiscal year 2011/2012, did this establishment have any performance bonus	discrete	numeric	In fiscal year 2011/2012, did this establishment have any performance bonus for employees or managers?
V127	hd12c	SHOW CARD 11 Q63. What were these performance bonuses usually based on?	discrete	numeric	What were these performance bonuses usually based on?
V128	hd13a	SHOW CARD 10 Q64. In fiscal year 2009/2010, what best describes the time frame o	discrete	numeric	In fiscal year 2009/2010, what best describes the time frame of production/sales targets at this establishment?
V129	hd13b	Q65. In fiscal year 2009/2010, did this establishment have any performance bonus	discrete	numeric	In fiscal year 2009/2010, did this establishment have any performance bonus for employees or managers?
V130	hd13c	SHOW CARD 11 Q66. What were these performance bonuses usually based on?	discrete	numeric	What were these performance bonuses usually based on?
V131	he1a	Packaging? (READ EACH OPTION ALOUD Q67. From fiscal year 2009/2010 thru 2011/201	discrete	numeric	From fiscal year 2009/2010 thru 2011/2012, did this establishment introduce or significantly change any of the following? Packaging
V132	he1b	Branding, logo, name, or trademark? (READ EACH OPTION ALOUD Q67. From fiscal yea	discrete	numeric	From fiscal year 2009/2010 thru 2011/2012, did this establishment introduce or significantly change any of the following? Branding, logo, name, or trademark

ID	Name	Label	Type	Format	Question
V133	he1c	Products' appearance, excluding packaging or branding? (READ EACH OPTION ALOUD Q67)	discrete	numeric	From fiscal year 2009/2010 thru 2011/2012, did this establishment introduce or significantly change any of the following? Products' appearance, excluding packaging or branding
V134	he1d	Advertising methods? (READ EACH OPTION ALOUD Q67. From fiscal year 2009/2010 thr	discrete	numeric	From fiscal year 2009/2010 thru 2011/2012, did this establishment introduce or significantly change any of the following? Advertising methods
V135	he1e	Promotion of the product or service? (READ EACH OPTION ALOUD Q67. From fiscal ye	discrete	numeric	From fiscal year 2009/2010 thru 2011/2012, did this establishment introduce or significantly change any of the following? Promotion of the product or service
V136	he1f	Sales channels or sales points? (READ EACH OPTION ALOUD Q67. From fiscal year 20	discrete	numeric	From fiscal year 2009/2010 thru 2011/2012, did this establishment introduce or significantly change any of the following? Sales channels or sales points
V137	he1g	Discount schemes? (READ EACH OPTION ALOUD Q67. From fiscal year 2009/2010 thru 2	discrete	numeric	From fiscal year 2009/2010 thru 2011/2012, did this establishment introduce or significantly change any of the following? Discount schemes
V138	he1h	Pricing strategies, excluding discount schemes? (READ EACH OPTION ALOUD Q67. Fro	discrete	numeric	From fiscal year 2009/2010 thru 2011/2012, did this establishment introduce or significantly change any of the following? Pricing strategies, excluding discount schemes
V139	he1i	Payment schemes? (READ EACH OPTION ALOUD Q67. From fiscal year 2009/2010 thru 20	discrete	numeric	From fiscal year 2009/2010 thru 2011/2012, did this establishment introduce or significantly change any of the following? Payment schemes
V140	he1j	Customer loyalty rewards? (READ EACH OPTION ALOUD Q67. From fiscal year 2009/201	discrete	numeric	From fiscal year 2009/2010 thru 2011/2012, did this establishment introduce or significantly change any of the following? Customer loyalty rewards
V141	he2a	Q68. From fiscal year 2009/2010 thru 2011/2012, did this establishment use the s	discrete	numeric	From fiscal year 2009/2010 thru 2011/2012, did this establishment use the services of a marketing firm, consumer research firm, or advertising firm?
V142	he2b		discrete	numeric	From fiscal year 2009/2010 thru 2011/2012, how much did this establishment pay in total for those services?
V143	hf1a	Q70. From fiscal year 2009/2010 thru 2011/2012 did this establishment conduct in	discrete	numeric	From fiscal year 2009/2010 thru 2011/2012 did this establishment conduct internal R&D? (Internal R&D is defined as creative work undertaken to increase knowledge for developing innovative products and processes.)
V144	hf1b		discrete	numeric	How much did this establishment spend in total from fiscal year 2009/2010 thru 2011/2012 on internal R&D?
V145	hf2a	Q72. From fiscal year 2009/2010 thru 2011/2012 did this establishment conduct ex	discrete	numeric	From fiscal year 2009/2010 thru 2011/2012 did this establishment conduct external R&D? (External R&D is defined as creative work, undertaken by other enterprises, public or private research organizations, which was paid for by this establishment.)
V146	hf2b		discrete	numeric	How much did this establishment spend in total from fiscal year 2009/2010 thru 2011/2012 on external R&D?
V147	hf3a	Q74. From fiscal year 2009/2010 thru 2011/2012 did this establishment provide fo	discrete	numeric	From fiscal year 2009/2010 thru 2011/2012 did this establishment provide formal training to any of its employees specifically for the development and/or introduction of innovative products or services and processes?
V148	hf3b		discrete	numeric	How much did this establishment spend in total from fiscal year 2009/2010 thru 2011/2012 on that formal training?

ID	Name	Label	Type	Format	Question
V149	hf4a	Q76. From fiscal year 2009/2010 thru 2011/2012 did this establishment purchase n	discrete	numeric	From fiscal year 2009/2010 thru 2011/2012 did this establishment purchase new equipment, machinery, or software to develop or produce any innovative products or services and processes?
V150	hf4b		discrete	numeric	How much did this establishment spend in total from fiscal year 2009/2010 thru 2011/2012 on the purchase of that new equipment, machinery, or software?
V151	hf5a	Q78. From fiscal year 2009/2010 thru 2011/2012 did this establishment purchase o	discrete	numeric	From fiscal year 2009/2010 thru 2011/2012 did this establishment purchase or license any patented or non-patented inventions, or other types of knowledge for the development of innovative products or services and processes?
V152	hf5b		discrete	numeric	How much did this establishment spend in total from fiscal year 2009/2010 thru 2011/2012 on any patented or non-patented inventions, or other types of knowledge?
V153	hf7a	Own funds? (READ EACH OPTION ALOUD Q80. From fiscal year 2009/2010 thru 2011/201	discrete	numeric	From fiscal year 2009/2010 thru 2011/2012, did this establishment fund its innovation activities from any of the following sources: Own funds
V154	hf7b	Private or state-owned banks? (READ EACH OPTION ALOUD Q80. From fiscal year 2009	discrete	numeric	From fiscal year 2009/2010 thru 2011/2012, did this establishment fund its innovation activities from any of the following sources: Private or state-owned banks
V155	hf7c	Government agencies or departments? (READ EACH OPTION ALOUD Q80. From fiscal yea	discrete	numeric	From fiscal year 2009/2010 thru 2011/2012, did this establishment fund its innovation activities from any of the following sources: Government agencies or departments
V156	hf7d	NGOs or international organizations? (READ EACH OPTION ALOUD Q80. From fiscal ye	discrete	numeric	From fiscal year 2009/2010 thru 2011/2012, did this establishment fund its innovation activities from any of the following sources: NGOs or international organizations
V157	hf7e	Other, moneylenders, friends, relatives, etc.? (READ EACH OPTION ALOUD Q80. From	discrete	numeric	From fiscal year 2009/2010 thru 2011/2012, did this establishment fund its innovation activities from any of the following sources: Other
V158	hf8	Q81. Between fiscal years 2009/2010 thru 2011/2012, did this establishment recei	discrete	numeric	Between fiscal years 2009/2010 thru 2011/2012, did this establishment receive any non-financial support from the government for innovation-related activities? (This includes training in the use of innovation equipment, assistance in research and product development, and assistance and training for marketing innovations)
V159	hf6	SHOW CARD 12 Q82. Thinking about innovation, which of the following is the most	discrete	numeric	Thinking about innovation, which of the following is the most important source of information or ideas for any innovation activity for this establishment?
V160	hf9a	Apply for a patent concerning a product innovation? (READ EACH OPTION ALOUD Q83.	discrete	numeric	From fiscal year 2009/2010 thru 2011/2012, did this establishment: Apply for a patent concerning a product innovation
V161	hf9b	Apply for a patent concerning a process innovation? (READ EACH OPTION ALOUD Q83.	discrete	numeric	From fiscal year 2009/2010 thru 2011/2012, did this establishment: Apply for a patent concerning a process innovation
V162	hf9c	Apply for a utility model? (READ EACH OPTION ALOUD Q83. From fiscal year 2009/20	discrete	numeric	From fiscal year 2009/2010 thru 2011/2012, did this establishment: Apply for a utility model
V163	hf9d	Register an industrial design? (READ EACH OPTION ALOUD Q83. From fiscal year 200	discrete	numeric	From fiscal year 2009/2010 thru 2011/2012, did this establishment: Register an industrial design

ID	Name	Label	Type	Format	Question
V164	hf9e	Apply for a trademark? (READ EACH OPTION ALOUD Q83. From fiscal year 2009/2010 t	discrete	numeric	From fiscal year 2009/2010 thru 2011/2012, did this establishment: Apply for a trademark
V165	hf9f	Apply for a copyright? (READ EACH OPTION ALOUD Q83. From fiscal year 2009/2010 t	discrete	numeric	From fiscal year 2009/2010 thru 2011/2012, did this establishment: Apply for a copyright
V166	ha1		discrete	numeric	Currently, what percentage of this establishment's employees regularly uses computers in their jobs, including management?
V167	ha2	Q85. From fiscal year 2009/2010 thru 2011/2012, did this establishment purchase	discrete	numeric	From fiscal year 2009/2010 thru 2011/2012, did this establishment purchase or develop in-house any software, which was customized to meet its needs?
V168	ha3	Q86. From fiscal year 2009/2010 thru 2011/2012, did this establishment have any	discrete	numeric	From fiscal year 2009/2010 thru 2011/2012, did this establishment have any employees entirely designated for IT?
V169	ha4	Q87. From fiscal year 2009/2010 thru 2011/2012, did this establishment use the s	discrete	numeric	From fiscal year 2009/2010 thru 2011/2012, did this establishment use the services of an external computer consultant or software consultant?
V170	ha5		discrete	numeric	From fiscal year 2009/2010 thru 2011/2012, what was the total cost of these external computer consultant or software consultant?
V171	ha6	Q89. Currently, does this establishment have an internet connection?	discrete	numeric	Currently, does this establishment have an internet connection?
V172	ha7		discrete	numeric	When did this establishment first obtain an internet connection?
V173	ha8a	E-mail with clients and suppliers? (READ EACH OPTION ALOUD Q91. Currently, does	discrete	numeric	Currently, does this establishment use the internet to conduct any of the following activities: E-mail with clients and suppliers
V174	ha8b	Internal communication amongst employees? (READ EACH OPTION ALOUD Q91. Currently	discrete	numeric	Currently, does this establishment use the internet to conduct any of the following activities: Internal communication amongst employees
V175	ha8c	Online purchases of inputs or finished goods purchased to resell? (READ EACH OPT	discrete	numeric	Currently, does this establishment use the internet to conduct any of the following activities: Online purchases of inputs or finished goods purchased to resell
V176	ha8d	Online sales and order fulfillment? (READ EACH OPTION ALOUD Q91. Currently, does	discrete	numeric	Currently, does this establishment use the internet to conduct any of the following activities: Online sales and order fulfillment
V177	ha8e	Manage the inventory? (READ EACH OPTION ALOUD Q91. Currently, does this establis	discrete	numeric	Currently, does this establishment use the internet to conduct any of the following activities: Manage the inventory
V178	ha8f	Marketing of products? (READ EACH OPTION ALOUD Q91. Currently, does this establi	discrete	numeric	Currently, does this establishment use the internet to conduct any of the following activities: Marketing of products
V179	ha8g	Do research and develop ideas on new products and services? (READ EACH OPTION AL	discrete	numeric	Currently, does this establishment use the internet to conduct any of the following activities: Do research and develop ideas on new products and services
V180	ha15d		contin	numeric	Time innovation module interview ends
V181	ha15m		discrete	numeric	Time innovation module interview ends
V182	ha15y		discrete	numeric	Time innovation module interview ends
V183	ha15h		discrete	numeric	Time innovation module interview ends
V184	ha15min		contin	numeric	Time innovation module interview ends

ID	Name	Label	Type	Format	Question
V185	ha21x		discrete	character	Information about the respondent for the innovation module
V186	ha21x1		discrete	character	Information about the respondent for the innovation module
V187	ha22x		discrete	character	Information about the respondent for the innovation module
V188	Ha21a	Main respondent (Years with the firm)	contin	numeric	Information about the respondent for the innovation module
V189	Ha22a	Second respondent (Years with the firm)	contin	numeric	Information about the respondent for the innovation module
V190	Ha21c	Main respondent (Gender)	discrete	numeric	Information about the respondent for the innovation module
V191	Ha22c	Second respondent (Gender)	discrete	numeric	Information about the respondent for the innovation module
V192	a3b		discrete	numeric	
V193	a1	Q2. Country	discrete	numeric	
V194	d2		discrete	numeric	
V195	n3	Q54. In fiscal year 2009/2010, three fiscal years ago, what were total annual sa	discrete	numeric	
V196	h1	Q68. During the last three years, has this establishment introduced new or signi	discrete	numeric	
V197	h2	Q69. Were any of the new or significantly improved products or services also new	discrete	numeric	
V198	h3	Q70. During the last three years, has this establishment introduced any new or s	discrete	numeric	
V199	h4a	Q71. During the last three years, has this establishment introduced any new or s	discrete	numeric	
V200	h4b	Q72. During the last three years, has this establishment introduced any new or s	discrete	numeric	
V201	h5	Q73. During the last three years, has this establishment introduced any new or s	discrete	numeric	
V202	h6	Q74. During the last three years, has this establishment introduced new or signi	discrete	numeric	
V203	h7	Q75. During the last three years, did this establishment spend on formal researc	discrete	numeric	
V204	h8	Q76. During the last three years, did this establishment give employees some tim	discrete	numeric	
V205	h7a	'The court system is fair, impartial and uncorrupted.' (Q112. I am going to read	discrete	numeric	
V206	h30	Courts (Complete the question by reading the response options Q126. Using the r	discrete	numeric	

ID	Name	Label	Type	Format	Question
V207	l1	INCLUDE INTERVIWEE IF APPLICABLE Q127. At the end of fiscal year 2011/2012, how	discrete	numeric	
V208	l2	INCLUDE INTERVIWEE IF APPLICABLE Q128. Three fiscal years ago, at the end of fis	discrete	numeric	
V209	wstrict_innov		contin	numeric	
V210	wmedian_innov		contin	numeric	
V211	wweak_innov		contin	numeric	
V212	a2	Sampling Region	discrete	numeric	
V213	a3a		discrete	numeric	
V214	a4a	Industry Sampling Sector	discrete	numeric	



## WEB STD FIRMID (idstd)

File: pakistan\_2013\_innovation\_data\_

### Overview

Type: Continuous	Valid cases: 696
Format: numeric	Invalid: 0
Width: 6	Minimum: 580892
Decimals: 0	Maximum: 581797
Range: 580892-581797	Mean: 581344.9
	Standard deviation: 261.7

## Company ID (CompanyID)

File: pakistan\_2013\_innovation\_data\_

### Overview

Type: Continuous	Valid cases: 696
Format: numeric	Invalid: 0
Width: 5	Minimum: 11
Decimals: 0	Maximum: 62501
Range: 11-62501	Mean: 36807.8
	Standard deviation: 22459.2

## Sampling Size (a6a)

File: pakistan\_2013\_innovation\_data\_

### Overview

Type: Discrete	Valid cases: 696
Format: numeric	Invalid: 0
Width: 1	
Decimals: 0	
Range: 0-3	

## Screening Size (a6b)

File: pakistan\_2013\_innovation\_data\_

### Overview

Type: Discrete	Valid cases: 696
Format: numeric	Invalid: 0
Width: 1	
Decimals: 0	
Range: 0-3	

## (b5)

File: pakistan\_2013\_innovation\_data\_

### Overview

Type: Discrete	Valid cases: 696
Format: numeric	Invalid: 0
Width: 4	
Decimals: 0	
Range: -9-2011	

## First Product/Service Isic Code (d1a2)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Continuous	Valid cases: 696
Format: numeric	Invalid: 0
Width: 4	Minimum: 1511
Decimals: 0	Maximum: 7290
Range: 1511-7290	Mean: 2693.6
	Standard deviation: 1310.6

## Q6. Questionnaire: (ha0)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete	Valid cases: 696
Format: numeric	Invalid: 0
Width: 1	
Decimals: 0	
Range: 1-2	

## (ha14d)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Continuous	Valid cases: 696
Format: numeric	Invalid: 0
Width: 2	Minimum: 1
Decimals: 0	Maximum: 31
Range: 1-31	Mean: 15.7
	Standard deviation: 9.6

## Q7\_Month (Q7. Interview start timing) (ha14m)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete	Valid cases: 696
Format: numeric	Invalid: 0
Width: 2	
Decimals: 0	
Range: 1-12	

## (ha14y)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete	Valid cases: 696
Format: numeric	Invalid: 0
Width: 4	
Decimals: 0	
Range: 2013-2014	

(ha14h)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete	Valid cases: 696
Format: numeric	Invalid: 0
Width: 2	
Decimals: 0	
Range: 7-22	

(ha14min)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Continuous	Valid cases: 696
Format: numeric	Invalid: 0
Width: 2	Minimum: 0
Decimals: 0	Maximum: 59
Range: 0-59	Mean: 28.9
	Standard deviation: 17

Q8. Same respondent as the ES (ha0b)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete	Valid cases: 696
Format: numeric	Invalid: 0
Width: 1	
Decimals: 0	
Range: 1-2	

Q9. From fiscal year 2009/2010 thru 2011/2012, did this establishment introduce (hb1)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete	Valid cases: 696
Format: numeric	Invalid: 0
Width: 2	
Decimals: 0	
Range: -9-2	

**Pre question**

I would like to start by asking you some questions about any new or significantly improved product or service introduced by this establishment, where "new" means new to the establishment and not necessarily new to the market. The next questions will refer to this new or significantly improved product or service as an "innovative" product or service.

**Literal question**

From fiscal year 2009/2010 thru 2011/2012, did this establishment introduce any innovative product or service?

(hb2)

File: pakistan\_2013\_innovation\_data\_

(hb2)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete	Valid cases: 158
Format: numeric	Invalid: 538
Width: 2	
Decimals: 0	
Range: -9-15	

**Literal question**

From fiscal year 2009/2010 thru 2011/2012, how many innovative products or services did this establishment introduce?

(hb3)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete	Valid cases: 93
Format: numeric	Invalid: 603
Width: 3	
Decimals: 0	
Range: -9-100	

**Literal question**

In fiscal year 2011/2012, what percentage of this establishment's total sales was represented by sales from all innovative products or services introduced from fiscal year 2009/2010 thru 2011/2012?

Q12 (hb5x)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete	Valid cases: 158
Format: character	Invalid: 0
Width: 100	

**Pre question**

The next questions are about this establishment's main innovative product or service. The main innovative product or service is the one that represented the largest proportion of this establishment's sales in value (not volume) during last fiscal year, that is fiscal year 2011/2012.

**Literal question**

Please describe in detail the main innovative product or service that this establishment introduced from fiscal year 2009/2010 thru 2011/2012.

Q12 (hb5x1)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete	Valid cases: 43
Format: character	Invalid: 0
Width: 72	

**Literal question**

Please describe in detail the main innovative product or service that this establishment introduced from fiscal year 2009/2010 thru 2011/2012.

## Q12 (hb5x2)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete

Valid cases: 5

Format: character

Invalid: 0

Width: 30

**Literal question**

Please describe in detail the main innovative product or service that this establishment introduced from fiscal year 2009/2010 thru 2011/2012.

## Q12 (hb5x3)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete

Valid cases: 1

Format: character

Invalid: 0

Width: 19

**Literal question**

Please describe in detail the main innovative product or service that this establishment introduced from fiscal year 2009/2010 thru 2011/2012.

## Q12 (hb5x4)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete

Valid cases: 0

Format: character

Invalid: 0

Width: 1

**Literal question**

Please describe in detail the main innovative product or service that this establishment introduced from fiscal year 2009/2010 thru 2011/2012.

## (hb6)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete

Valid cases: 158

Format: numeric

Invalid: 538

Width: 4

Decimals: 0

Range: -9-2012

**Literal question**

In which year did this establishment introduce the main innovative product or service?

## (hb4)

File: pakistan\_2013\_innovation\_data\_

**Overview**

(hb4)

File: pakistan\_2013\_innovation\_data\_

Type: Discrete  
 Format: numeric  
 Width: 3  
 Decimals: 0  
 Range: -9-100

Valid cases: 158  
 Invalid: 538

**Literal question**

In fiscal year 2011/2012, what percentage of this establishment's total sales was represented by sales from the main innovative product or service?

Q15. Please describe in detail how the main innovative product or service is dif (hb7)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete  
 Format: numeric  
 Width: 2  
 Decimals: 0  
 Range: -7--7

Valid cases: 76  
 Invalid: 620

**Literal question**

Please describe in detail how the main innovative product or service is different than the most similar product or service, if any, previously produced by this establishment

(hb7x)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete  
 Format: character  
 Width: 85

Valid cases: 82  
 Invalid: 0

**Literal question**

Please describe in detail how the main innovative product or service is different than the most similar product or service, if any, previously produced by this establishment

(hb7x1)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete  
 Format: character  
 Width: 52

Valid cases: 15  
 Invalid: 0

**Literal question**

Please describe in detail how the main innovative product or service is different than the most similar product or service, if any, previously produced by this establishment

(hb7x2)

File: pakistan\_2013\_innovation\_data\_

(hb7x2)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete

Format: character

Width: 17

Valid cases: 1

Invalid: 0

**Literal question**

Please describe in detail how the main innovative product or service is different than the most similar product or service, if any, previously produced by this establishment

(hb7x3)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete

Format: character

Width: 22

Valid cases: 1

Invalid: 0

**Literal question**

Please describe in detail how the main innovative product or service is different than the most similar product or service, if any, previously produced by this establishment

Does it have completely new functions? (READ EACH OPTION ALOUD Q16. I will now ask you a (hb9a)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete

Format: numeric

Width: 2

Decimals: 0

Range: -9-2

Valid cases: 158

Invalid: 538

**Literal question**

I will now ask you a few questions about the main innovative product or service compared with all other products and services already produced in this establishment.

Does it have completely new functions?

Is it cheaper to produce or offer? (READ EACH OPTION ALOUD Q16. I will now ask you (hb9b)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete

Format: numeric

Width: 2

Decimals: 0

Range: -9-2

Valid cases: 158

Invalid: 538

**Literal question**

I will now ask you a few questions about the main innovative product or service compared with all other products and services already produced in this establishment.

Is it cheaper to produce or offer?

Is it a better quality product or service? (READ EACH OPTION ALOUD Q16. I will n (hb9c)

File: pakistan\_2013\_innovation\_data\_

#### Overview

Type: Discrete	Valid cases: 158
Format: numeric	Invalid: 538
Width: 2	
Decimals: 0	
Range: -9-2	

#### Literal question

I will now ask you a few questions about the main innovative product or service compared with all other products and services already produced in this establishment.  
Is it a better quality product or service?

Does it use different inputs? (READ EACH OPTION ALOUD Q16. I will now ask you a (hb9d)

File: pakistan\_2013\_innovation\_data\_

#### Overview

Type: Discrete	Valid cases: 158
Format: numeric	Invalid: 538
Width: 2	
Decimals: 0	
Range: -9-2	

#### Literal question

I will now ask you a few questions about the main innovative product or service compared with all other products and services already produced in this establishment.  
Does it use different inputs?

Is it based on a technology or industrial design not already used by this establ (hb9f)

File: pakistan\_2013\_innovation\_data\_

#### Overview

Type: Discrete	Valid cases: 158
Format: numeric	Invalid: 538
Width: 2	
Decimals: 0	
Range: -9-2	

#### Literal question

I will now ask you a few questions about the main innovative product or service compared with all other products and services already produced in this establishment.  
Is it based on a technology or industrial design not already used by this establishment?

To replace a product or service offered by this establishment? (READ EACH OPTION (hb10a)

File: pakistan\_2013\_innovation\_data\_

#### Overview

To replace a product or service offered by this establishment?  
(READ EACH OPTION (hb10a))

File: pakistan\_2013\_innovation\_data\_

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-2

Valid cases: 158  
Invalid: 538

**Literal question**

Do any of the following describe why this establishment introduced this main innovative product:  
To replace a product or service offered by this establishment

To extend the range of products or service offered by this establishment? (READ (hb10b))

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-2

Valid cases: 158  
Invalid: 538

**Literal question**

Do any of the following describe why this establishment introduced this main innovative product:  
To extend the range of products or service offered by this establishment

To open up new markets or increase market share? (READ EACH OPTION ALOUD Q17. Do (hb10c))

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-2

Valid cases: 158  
Invalid: 538

**Literal question**

Do any of the following describe why this establishment introduced this main innovative product:  
To open up new markets or increase market share

To decrease the cost of production or offering the service? (READ EACH OPTION AL (hb10d))

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-2

Valid cases: 158  
Invalid: 538

**Literal question**

To decrease the cost of production or offering the service? (READ EACH OPTION AL (hb10d)

File: pakistan\_2013\_innovation\_data\_

Do any of the following describe why this establishment introduced this main innovative product:  
To decrease the cost of production or offering the service

To offer products or service already offered by competitors? (READ EACH OPTION A (hb10e)

File: pakistan\_2013\_innovation\_data\_

#### Overview

Type: Discrete	Valid cases: 158
Format: numeric	Invalid: 538
Width: 2	
Decimals: 0	
Range: -9-2	

#### Literal question

Do any of the following describe why this establishment introduced this main innovative product:  
To offer products or service already offered by competitors

To comply with regulations or standards (e.g. safety or environmental regulatio (hb10f)

File: pakistan\_2013\_innovation\_data\_

#### Overview

Type: Discrete	Valid cases: 158
Format: numeric	Invalid: 538
Width: 2	
Decimals: 0	
Range: -9-2	

#### Literal question

Do any of the following describe why this establishment introduced this main innovative product:  
To comply with regulations or standards (e.g. safety or environmental regulations)

To deal with a decrease in the demand for other products or service? (READ EACH (hb10g)

File: pakistan\_2013\_innovation\_data\_

#### Overview

Type: Discrete	Valid cases: 158
Format: numeric	Invalid: 538
Width: 2	
Decimals: 0	
Range: -9-2	

#### Literal question

Do any of the following describe why this establishment introduced this main innovative product:  
To deal with a decrease in the demand for other products or service

New to the local market? ([READ OUT] Q18. When this main innovative product or s (hb11a)

File: pakistan\_2013\_innovation\_data\_

#### Overview

Type: Discrete	Valid cases: 158
Format: numeric	Invalid: 538
Width: 2	
Decimals: 0	
Range: -9-2	

#### Literal question

When this main innovative product or service was introduced by this establishment, was it New to the local market

New to the national market? ([READ OUT] Q18. When this main innovative product o (hb11b)

File: pakistan\_2013\_innovation\_data\_

#### Overview

Type: Discrete	Valid cases: 158
Format: numeric	Invalid: 538
Width: 2	
Decimals: 0	
Range: -9-2	

#### Literal question

When this main innovative product or service was introduced by this establishment, was it New to the national market

New to the international market? ([READ OUT] Q18. When this main innovative prod (hb11c)

File: pakistan\_2013\_innovation\_data\_

#### Overview

Type: Discrete	Valid cases: 158
Format: numeric	Invalid: 538
Width: 2	
Decimals: 0	
Range: -9-2	

#### Literal question

When this main innovative product or service was introduced by this establishment, was it New to the international market

SHOW CARD 2 Q19. How did this establishment develop the idea for this main innov (hb12)

File: pakistan\_2013\_innovation\_data\_

#### Overview

## SHOW CARD 2 Q19. How did this establishment develop the idea for this main innov (hb12)

File: pakistan\_2013\_innovation\_data\_

Type: Discrete  
Format: numeric  
Width: 1  
Decimals: 0  
Range: 1-3

Valid cases: 158  
Invalid: 538

### Literal question

How did this establishment develop the idea for this main innovative product or service?

## Q20. Was the main innovative product or service developed entirely by this estab (hb13)

File: pakistan\_2013\_innovation\_data\_

### Overview

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-2

Valid cases: 158  
Invalid: 538

### Literal question

Was the main innovative product or service developed entirely by this establishment?

## Q21. Was the main innovative product or service developed entirely by another fi (hb14)

File: pakistan\_2013\_innovation\_data\_

### Overview

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-2

Valid cases: 17  
Invalid: 679

### Literal question

Was the main innovative product or service developed entirely by another firm (e.g. headquarter, sister company or any other firm within your company or independent from your company)?

## Any domestic firms? (READ EACH OPTION ALOUD Q22. Was the main innovative product (hb15a)

File: pakistan\_2013\_innovation\_data\_

### Overview

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-2

Valid cases: 12  
Invalid: 684

### Literal question

Any domestic firms? (READ EACH OPTION ALOUD Q22. Was the main innovative product (hb15a)

File: pakistan\_2013\_innovation\_data\_

Was the main innovative product or service developed in cooperation with any of the following?  
Any domestic firms

Any foreign firms or a foreign-owned parent firm? (READ EACH OPTION ALOUD Q22. W (hb15b)

File: pakistan\_2013\_innovation\_data\_

#### Overview

Type: Discrete	Valid cases: 12
Format: numeric	Invalid: 684
Width: 2	
Decimals: 0	
Range: -9-2	

#### Literal question

Was the main innovative product or service developed in cooperation with any of the following?  
Any foreign firms or a foreign-owned parent firm

Domestic academic or research institutions? (READ EACH OPTION ALOUD Q22. Was the (hb15c)

File: pakistan\_2013\_innovation\_data\_

#### Overview

Type: Discrete	Valid cases: 12
Format: numeric	Invalid: 684
Width: 2	
Decimals: 0	
Range: -9-2	

#### Literal question

Was the main innovative product or service developed in cooperation with any of the following?  
Domestic academic or research institutions

Foreign academic or research institutions? (READ EACH OPTION ALOUD Q22. Was the (hb15d)

File: pakistan\_2013\_innovation\_data\_

#### Overview

Type: Discrete	Valid cases: 12
Format: numeric	Invalid: 684
Width: 2	
Decimals: 0	
Range: -9-2	

#### Literal question

Was the main innovative product or service developed in cooperation with any of the following?  
Foreign academic or research institutions

## Private consulting company or individuals? (READ EACH OPTION ALOUD Q22. Was the (hb15e)

File: pakistan\_2013\_innovation\_data\_

### Overview

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-2

Valid cases: 12  
Invalid: 684

### Literal question

Was the main innovative product or service developed in cooperation with any of the following?  
Private consulting company or individuals

## Government? (READ EACH OPTION ALOUD Q22. Was the main innovative product or serv (hb15f)

File: pakistan\_2013\_innovation\_data\_

### Overview

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-2

Valid cases: 12  
Invalid: 684

### Literal question

Was the main innovative product or service developed in cooperation with any of the following?  
Government

## Q23. Were employees hired specifically for the purpose of developing the main in (hb16)

File: pakistan\_2013\_innovation\_data\_

### Overview

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-2

Valid cases: 158  
Invalid: 538

### Literal question

Were employees hired specifically for the purpose of developing the main innovative product or service?

## Q24. From fiscal year 2009/2010 thru 2011/2012, as a consequence of introducing (hb17)

File: pakistan\_2013\_innovation\_data\_

### Overview

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-3

Valid cases: 158  
Invalid: 538

Q24. From fiscal year 2009/2010 thru 2011/2012, as a consequence of introducing (hb17)

File: pakistan\_2013\_innovation\_data\_

**Literal question**

From fiscal year 2009/2010 thru 2011/2012, as a consequence of introducing any innovative product or service, did the number of skilled workers employed by the establishment increase, decrease or remain the same?

Q25. From fiscal year 2009/2010 thru 2011/2012, as a consequence of introducing (hb18)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-3

Valid cases: 158  
Invalid: 538

**Literal question**

From fiscal year 2009/2010 thru 2011/2012, as a consequence of introducing any innovative product or service, did the number of unskilled workers employed by the establishment increase, decrease or remain the same?

Abandoned or suspended before completion (READ EACH OPTION ALOUD Q26. From fisca (hb19a)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-2

Valid cases: 696  
Invalid: 0

**Literal question**

From fiscal year 2010 thru 2012, did this establishment attempt to develop an innovative product or service that was Abandoned or suspended before completion

Still ongoing at the end of fiscal year 2011/2012 (READ EACH OPTION ALOUD Q26. F (hb19b)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-2

Valid cases: 696  
Invalid: 0

**Literal question**

From fiscal year 2009/2010 thru 2011/2012, did this establishment attempt to develop an innovative product or service that was Still ongoing at the end of fiscal year 2011/2012

## SHOW CARD 3 Q27. From fiscal year 2009/2010 thru 2011/2012, did this establishme (hc1)

File: pakistan\_2013\_innovation\_data\_

### Overview

Type: Discrete	Valid cases: 696
Format: numeric	Invalid: 0
Width: 2	
Decimals: 0	
Range: -9-2	

### Pre question

I would now like to ask you some questions related to any new or significantly improved process introduced by this establishment. The next questions will refer to any new or significantly improved process as an "innovative" process.

### Literal question

From fiscal year 2009/2010 thru 2011/2012, did this establishment introduce any innovative methods of manufacturing products or offering services?

## SHOW CARD 4 Q28. From fiscal year 2009/2010 thru 2011/2012, did this establishme (hc2)

File: pakistan\_2013\_innovation\_data\_

### Overview

Type: Discrete	Valid cases: 696
Format: numeric	Invalid: 0
Width: 2	
Decimals: 0	
Range: -9-2	

### Literal question

From fiscal year 2009/2010 thru 2011/2012, did this establishment introduce any innovative logistics, delivery, or distribution methods for inputs, products, or services?

## SHOW CARD 5 Q29. From fiscal year 2009/2010 thru 2011/2012, did this establishme (hc3)

File: pakistan\_2013\_innovation\_data\_

### Overview

Type: Discrete	Valid cases: 696
Format: numeric	Invalid: 0
Width: 2	
Decimals: 0	
Range: -9-2	

### Literal question

From fiscal year 2009/2010 thru 2011/2012, did this establishment introduce any innovative supporting activity for processes, such as maintenance systems or operations for purchasing, accounting, or computing?

## Q30. INTERVIEWER, PLEASE MARK THE FOLLOWING BASED ON THE ABOVE 3 QUESTIONS (hc4)

File: pakistan\_2013\_innovation\_data\_

### Overview

## Q30. INTERVIEWER, PLEASE MARK THE FOLLOWING BASED ON THE ABOVE 3 QUESTIONS (hc4)

File: pakistan\_2013\_innovation\_data\_

Type: Discrete  
Format: numeric  
Width: 1  
Decimals: 0  
Range: 1-2

Valid cases: 696  
Invalid: 0

(hc5x)

File: pakistan\_2013\_innovation\_data\_

### Overview

Type: Discrete  
Format: character  
Width: 100

Valid cases: 92  
Invalid: 0

### Pre question

The next questions refer to this establishment's main innovative process, that is, the innovative process that had the largest impact on the operations of the establishment.

### Literal question

Please describe in detail this establishment's main innovative process

(hc5x1)

File: pakistan\_2013\_innovation\_data\_

### Overview

Type: Discrete  
Format: character  
Width: 61

Valid cases: 17  
Invalid: 0

### Literal question

Please describe in detail this establishment's main innovative process

(hc5x2)

File: pakistan\_2013\_innovation\_data\_

### Overview

Type: Discrete  
Format: character  
Width: 40

Valid cases: 5  
Invalid: 0

### Literal question

Please describe in detail this establishment's main innovative process

(hc5x3)

File: pakistan\_2013\_innovation\_data\_

### Overview

Type: Discrete  
Format: character  
Width: 42

Valid cases: 3  
Invalid: 0

(hc5x3)

File: pakistan\_2013\_innovation\_data\_

**Literal question**

Please describe in detail this establishment's main innovative process

Q32. In which year did this establishment introduce this most important innovati (q32)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete  
 Format: numeric  
 Width: 1  
 Decimals: 0  
 Range: 1-2

Valid cases: 92  
 Invalid: 604

(hc6)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete  
 Format: numeric  
 Width: 4  
 Decimals: 0  
 Range: -9-2012

Valid cases: 92  
 Invalid: 604

**Literal question**

In which year did this establishment introduce this most important innovative process?

` (hc7)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete  
 Format: numeric  
 Width: 2  
 Decimals: 0  
 Range: -7-1

Valid cases: 92  
 Invalid: 604

**Literal question**

Please describe in detail how the innovative process is different from the most similar process, if any, that is or was used by this establishment.

The process is completely new, there is no similar process

(hc7x)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete  
 Format: character  
 Width: 94

Valid cases: 29  
 Invalid: 0

**Literal question**

(hc7x)

File: pakistan\_2013\_innovation\_data\_

Please describe in detail how the innovative process is different from the most similar process, if any, that is or was used by this establishment

(hc7x1)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete

Format: character

Width: 19

Valid cases: 1

Invalid: 0

**Literal question**

Please describe in detail how the innovative process is different from the most similar process, if any, that is or was used by this establishment

(hc7x2)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete

Format: character

Width: 1

Valid cases: 0

Invalid: 0

**Literal question**

Please describe in detail how the innovative process is different from the most similar process, if any, that is or was used by this establishment

(hc7x3)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete

Format: character

Width: 1

Valid cases: 0

Invalid: 0

**Literal question**

Please describe in detail how the innovative process is different from the most similar process, if any, that is or was used by this establishment

Automate manual processes, partially or fully? (READ EACH OPTION ALOUD Q34. Does (hc8a)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete

Format: numeric

Width: 2

Decimals: 0

Range: -9-2

Valid cases: 92

Invalid: 604

**Literal question**

Automate manual processes, partially or fully? (READ EACH OPTION ALOUD Q34. Does (hc8a)

File: pakistan\_2013\_innovation\_data\_

Does the most important innovative process  
Automate manual processes, partially or fully?

Adapt a technology or method previously used by this establishment? (READ EACH O (hc8b)

File: pakistan\_2013\_innovation\_data\_

#### Overview

Type: Discrete	Valid cases: 92
Format: numeric	Invalid: 604
Width: 2	
Decimals: 0	
Range: -9-2	

#### Literal question

Does the most important innovative process  
Adapt a technology or method previously used by this establishment?

Introduce a new technology or method? (READ EACH OPTION ALOUD Q34. Does the most (hc8c)

File: pakistan\_2013\_innovation\_data\_

#### Overview

Type: Discrete	Valid cases: 92
Format: numeric	Invalid: 604
Width: 2	
Decimals: 0	
Range: -9-2	

#### Literal question

Does the most important innovative process  
Introduce a new technology or method?

Use a more efficient technology or method already used by this establishment? (R (hc8d)

File: pakistan\_2013\_innovation\_data\_

#### Overview

Type: Discrete	Valid cases: 92
Format: numeric	Invalid: 604
Width: 2	
Decimals: 0	
Range: -9-2	

#### Literal question

Does the most important innovative process:  
Use a more efficient technology or method already used by this establishment

Q35. Is the most important innovative process associated with an innovative prod (hc9)

File: pakistan\_2013\_innovation\_data\_

#### Overview

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-2

Valid cases: 92  
Invalid: 604

#### Literal question

Is the most important innovative process associated with an innovative product or service introduced by this establishment?

To increase the quality of products or services ? (READ EACH OPTION ALOUD Q36. D (hc10a)

File: pakistan\_2013\_innovation\_data\_

#### Overview

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-2

Valid cases: 92  
Invalid: 604

#### Literal question

Do any of the following describe why this establishment introduced the most important innovative process?  
To increase the quality of products or services

To increase the total production or amount of services offered? (READ EACH OPTI (hc10b)

File: pakistan\_2013\_innovation\_data\_

#### Overview

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-2

Valid cases: 92  
Invalid: 604

#### Literal question

Do any of the following describe why this establishment introduced the most important innovative process?  
To increase the total production or amount of services offered

To increase the flexibility of production or offering service? (READ EACH OPTIO (hc10c)

File: pakistan\_2013\_innovation\_data\_

#### Overview

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-2

Valid cases: 92  
Invalid: 604

To increase the flexibility of production or offering service? (READ EACH OPTIO (hc10c)

File: pakistan\_2013\_innovation\_data\_

**Literal question**

Do any of the following describe why this establishment introduced the most important innovative process?  
To increase the flexibility of production or offering service

To increase the speed of production or offering service? (READ EACH OPTION ALOUD (hc10d)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-2

Valid cases: 92  
Invalid: 604

**Literal question**

Do any of the following describe why this establishment introduced the most important innovative process?  
To increase the speed of production or offering service

To increase the speed of delivery to the customer? (READ EACH OPTION ALOUD Q36. (hc10e)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-2

Valid cases: 92  
Invalid: 604

**Literal question**

Do any of the following describe why this establishment introduced the most important innovative process?  
To increase the speed of delivery to the customer

To decrease the cost of production or offering service? (READ EACH OPTION ALOUD (hc10f)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-2

Valid cases: 92  
Invalid: 604

**Literal question**

Do any of the following describe why this establishment introduced the most important innovative process?  
To decrease the cost of production or offering service

To reduce waste or errors (defect rate or rejection rate )? (READ EACH OPTION AL (hc10g)

File: pakistan\_2013\_innovation\_data\_

#### Overview

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-2

Valid cases: 92  
Invalid: 604

#### Literal question

Do any of the following describe why this establishment introduced the most important innovative process?  
To reduce waste or errors (defect rate or rejection rate )

To comply with regulations or standards (e.g. safety or environmental regulatio (hc10h)

File: pakistan\_2013\_innovation\_data\_

#### Overview

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-2

Valid cases: 92  
Invalid: 604

#### Literal question

Do any of the following describe why this establishment introduced the most important innovative process?  
To comply with regulations or standards (e.g. safety or environmental regulations)

New to the local market? (READ EACH OPTION ALOUD Q37.  
When the most important in (hc11a)

File: pakistan\_2013\_innovation\_data\_

#### Overview

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-2

Valid cases: 92  
Invalid: 604

#### Literal question

When the most important innovative process was introduced in this establishment, was it  
New to the local market

New to the national market? (READ EACH OPTION ALOUD Q37.  
When the most important (hc11b)

File: pakistan\_2013\_innovation\_data\_

#### Overview

New to the national market? (READ EACH OPTION ALOUD Q37.  
When the most important (hc11b)

File: pakistan\_2013\_innovation\_data\_

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-2

Valid cases: 92  
Invalid: 604

#### Literal question

When the most important innovative process was introduced in this establishment, was it  
New to the national market

New to the international market? (READ EACH OPTION ALOUD  
Q37. When the most impo (hc11c)

File: pakistan\_2013\_innovation\_data\_

#### Overview

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-2

Valid cases: 92  
Invalid: 604

#### Literal question

When the most important innovative process was introduced in this establishment, was it  
New to the international market

SHOW CARD 6 Q38. How did this establishment develop the idea  
for this most impor (hc12)

File: pakistan\_2013\_innovation\_data\_

#### Overview

Type: Discrete  
Format: numeric  
Width: 1  
Decimals: 0  
Range: 1-3

Valid cases: 92  
Invalid: 604

#### Literal question

How did this establishment develop the idea for this most important innovative process?

Q39. Was the most important innovative process developed  
entirely by this establ (hc13)

File: pakistan\_2013\_innovation\_data\_

#### Overview

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-2

Valid cases: 92  
Invalid: 604

#### Literal question

Q39. Was the most important innovative process developed entirely by this establ (hc13)

File: pakistan\_2013\_innovation\_data\_

Was the most important innovative process developed entirely by this establishment?

Q40. Was the most important innovative process developed entirely by another fir (hc14)

File: pakistan\_2013\_innovation\_data\_

#### Overview

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-2

Valid cases: 29  
Invalid: 667

#### Literal question

Was the most important innovative process developed entirely by another firm (e.g. headquarter, sister company or any other firm within your company or independent from your company)?

Any domestic firms? (READ EACH OPTION ALOUD Q41. Was the most important innovati (hc15a)

File: pakistan\_2013\_innovation\_data\_

#### Overview

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-2

Valid cases: 13  
Invalid: 683

#### Literal question

Was the most important innovative process developed in cooperation with any of the following?

Any foreign firms or a foreign-owned parent firm? (READ EACH OPTION ALOUD Q41. W (hc15b)

File: pakistan\_2013\_innovation\_data\_

#### Overview

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-2

Valid cases: 13  
Invalid: 683

#### Literal question

Was the most important innovative process developed in cooperation with any of the following?

## Domestic academic or research institutions? (READ EACH OPTION ALOUD Q41. Was the (hc15c)

File: pakistan\_2013\_innovation\_data\_

### Overview

Type: Discrete	Valid cases: 13
Format: numeric	Invalid: 683
Width: 2	
Decimals: 0	
Range: -9-2	

### Literal question

Was the most important innovative process developed in cooperation with any of the following?

## Foreign academic or research institutions? (READ EACH OPTION ALOUD Q41. Was the (hc15d)

File: pakistan\_2013\_innovation\_data\_

### Overview

Type: Discrete	Valid cases: 13
Format: numeric	Invalid: 683
Width: 2	
Decimals: 0	
Range: -9-2	

### Literal question

Was the most important innovative process developed in cooperation with any of the following?

## Private consulting company or individuals? (READ EACH OPTION ALOUD Q41. Was the (hc15e)

File: pakistan\_2013\_innovation\_data\_

### Overview

Type: Discrete	Valid cases: 13
Format: numeric	Invalid: 683
Width: 2	
Decimals: 0	
Range: -9-2	

### Literal question

Was the most important innovative process developed in cooperation with any of the following?

## Government? (READ EACH OPTION ALOUD Q41. Was the most important innovative proce (hc15f)

File: pakistan\_2013\_innovation\_data\_

### Overview

Type: Discrete	Valid cases: 13
Format: numeric	Invalid: 683
Width: 2	
Decimals: 0	
Range: -9-2	

### Literal question

Was the most important innovative process developed in cooperation with any of the following?

Q42. Were employees hired specifically for the purpose of developing the most im (hc16)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-2

Valid cases: 92  
Invalid: 604

**Literal question**

Were employees hired specifically for the purpose of developing the most important innovative process?

Q43. From fiscal year 2009/2010 thru 2011/2012, as a consequence of introducing (hc17)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-3

Valid cases: 92  
Invalid: 604

**Literal question**

From fiscal year 2009/2010 thru 2011/2012, as a consequence of introducing any innovative processes, did the number of skilled workers employed by the establishment increase, decrease or remain the same?

Q44. From fiscal year 2009/2010 thru 2011/2012, as a consequence of introducing (hc18)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-3

Valid cases: 92  
Invalid: 604

**Literal question**

From fiscal year 2009/2010 thru 2011/2012, as a consequence of introducing any innovative processes, did the number of unskilled workers employed by the establishment increase, decrease or remain the same?

Number of employees reporting directly to Top Manager in fiscal year 2011/2012 ( (hd1a)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete  
Format: numeric  
Width: 4  
Decimals: 0  
Range: -9-3000

Valid cases: 368  
Invalid: 328

## Number of employees reporting directly to Top Manager in fiscal year 2011/2012 ( (hd1a)

File: pakistan\_2013\_innovation\_data\_

### Pre question

I would now like to ask you some questions related to innovation in organization or management. Please note that these changes in organization or management do not necessarily need to be related to other innovations, such as product or process innovations.

All questions are about the situation in fiscal years 2009/2010 and 2011/2012.

### Literal question

In fiscal year 2011/2012, how many employees reported directly to the Top Manager of this establishment? An employee who reports directly implies the employee meets with the Top Manager on a regular basis (middle manager).

## Number of employees reporting directly to Top Manager in fiscal year 2009/2010 ( (hd1b)

File: pakistan\_2013\_innovation\_data\_

### Overview

Type: Discrete  
Format: numeric  
Width: 4  
Decimals: 0  
Range: -9-3000

Valid cases: 368  
Invalid: 328

### Literal question

In fiscal year 2009/2010, how many employees reported directly to the Top Manager of this establishment?

## Number of layers of direct reporting in fiscal year 2011/2012 (Number) (hd2a)

File: pakistan\_2013\_innovation\_data\_

### Overview

Type: Discrete  
Format: numeric  
Width: 3  
Decimals: 0  
Range: -9-200

Valid cases: 368  
Invalid: 328

### Literal question

In fiscal year 2011/2012, how many layers of direct reporting were there in this establishment from the Top Manager down to the lowest-level of employee?

## Number of layers of direct reporting in fiscal year 2009/2010 (Number) (hd2b)

File: pakistan\_2013\_innovation\_data\_

### Overview

Type: Discrete  
Format: numeric  
Width: 3  
Decimals: 0  
Range: -9-200

Valid cases: 368  
Invalid: 328

### Literal question

## Number of layers of direct reporting in fiscal year 2009/2010 (Number) (hd2b)

File: pakistan\_2013\_innovation\_data\_

In fiscal year 2009/2010, how many layers of direct reporting were there in this establishment from the Top Manager down to the lowest-level of employee?

## Create a new unit or department ? (READ EACH OPTION ALOUD Q47. From fiscal year (hd3a)

File: pakistan\_2013\_innovation\_data\_

### Overview

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-2

Valid cases: 368  
Invalid: 328

### Literal question

From fiscal year 2009/2010 thru 2011/2012, did the establishment make any changes in its organizational structure in any of the following ways:  
Create a new unit or department

## Dissolve any units or department? (READ EACH OPTION ALOUD Q47. From fiscal year (hd3b)

File: pakistan\_2013\_innovation\_data\_

### Overview

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-2

Valid cases: 368  
Invalid: 328

### Literal question

From fiscal year 2009/2010 thru 2011/2012, did the establishment make any changes in its organizational structure in any of the following ways:  
Dissolve any units or department

## Merge any units or department? (READ EACH OPTION ALOUD Q47. From fiscal year 200 (hd3c)

File: pakistan\_2013\_innovation\_data\_

### Overview

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-2

Valid cases: 368  
Invalid: 328

### Literal question

From fiscal year 2009/2010 thru 2011/2012, did the establishment make any changes in its organizational structure in any of the following ways:  
Merge any units or department

Q48. From fiscal year 2009/2010 thru 2011/2012, did this establishment contract (hd7)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete	Valid cases: 368
Format: numeric	Invalid: 328
Width: 2	
Decimals: 0	
Range: -9-2	

**Literal question**

From fiscal year 2009/2010 thru 2011/2012, did this establishment contract other firms to perform any activities previously done in-house (outsourcing)?

Q49. From fiscal year 2009/2010 thru 2011/2012, did this establishment start doi (hd8)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete	Valid cases: 368
Format: numeric	Invalid: 328
Width: 2	
Decimals: 0	
Range: -9-2	

**Literal question**

From fiscal year 2009/2010 thru 2011/2012, did this establishment start doing in-house any activities previously contracted to other firms (insourcing)?

Q50. From fiscal year 2009/2010 thru 2011/2012, did this establishment introduce (hd4)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete	Valid cases: 368
Format: numeric	Invalid: 328
Width: 2	
Decimals: 0	
Range: -9-2	

**Literal question**

From fiscal year 2009/2010 thru 2011/2012, did this establishment introduce any change in the method of hiring employees, excluding managerial and supervisory staff?

Q51. From fiscal year 2009/2010 thru 2011/2012, did this establishment introduce (hd5)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Q51. From fiscal year 2009/2010 thru 2011/2012, did this establishment introduce (hd5)

File: pakistan\_2013\_innovation\_data\_

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-2

Valid cases: 368  
Invalid: 328

#### Literal question

From fiscal year 2009/2010 thru 2011/2012, did this establishment introduce any change in the method of hiring managerial and supervisory staff?

Suppliers or customers? (READ EACH OPTION ALOUD Q52. From fiscal year 2009/2010 (hd6a)

File: pakistan\_2013\_innovation\_data\_

#### Overview

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-2

Valid cases: 368  
Invalid: 328

#### Literal question

From fiscal year 2009/2010 thru 2011/2012, did the manager(s) at this establishment learn about management practices from Suppliers or customers

Trade associations or workshops? (READ EACH OPTION ALOUD Q52. From fiscal year 2 (hd6b)

File: pakistan\_2013\_innovation\_data\_

#### Overview

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-2

Valid cases: 368  
Invalid: 328

#### Literal question

From fiscal year 2009/2010 thru 2011/2012, did the manager(s) at this establishment learn about management practices from Trade associations or workshops

New employees ? (READ EACH OPTION ALOUD Q52. From fiscal year 2009/2010 thru 201 (hd6c)

File: pakistan\_2013\_innovation\_data\_

#### Overview

New employees ? (READ EACH OPTION ALOUD Q52. From fiscal year 2009/2010 thru 201 (hd6c)

File: pakistan\_2013\_innovation\_data\_

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-2

Valid cases: 368  
Invalid: 328

#### Literal question

From fiscal year 2009/2010 thru 2011/2012, did the manager(s) at this establishment learn about management practices from  
New employees

Competitors? (READ EACH OPTION ALOUD Q52. From fiscal year 2009/2010 thru 2011/2 (hd6d)

File: pakistan\_2013\_innovation\_data\_

#### Overview

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-2

Valid cases: 368  
Invalid: 328

#### Literal question

From fiscal year 2009/2010 thru 2011/2012, did the manager(s) at this establishment learn about management practices from  
Competitors

Consultants? (READ EACH OPTION ALOUD Q52. From fiscal year 2009/2010 thru 2011/2 (hd6e)

File: pakistan\_2013\_innovation\_data\_

#### Overview

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-2

Valid cases: 368  
Invalid: 328

#### Literal question

From fiscal year 2009/2010 thru 2011/2012, did the manager(s) at this establishment learn about management practices from  
Consultants

SHOW CARD 8 Q53. In fiscal year 2011/2012 what best describes what happened at t (hd9a)

File: pakistan\_2013\_innovation\_data\_

#### Overview

SHOW CARD 8 Q53. In fiscal year 2011/2012 what best describes what happened at t (hd9a)

File: pakistan\_2013\_innovation\_data\_

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-4

Valid cases: 368  
Invalid: 328

#### Pre question

The next questions are about changes in management practices

#### Literal question

In fiscal year 2011/2012 what best describes what happened at this establishment when a problem arose in the production process, such as a quality defect or machinery or equipment break-downs?

SHOW CARD 8 Q54. In fiscal year 2009/2010 what best describes what happened at t (hd9b)

File: pakistan\_2013\_innovation\_data\_

#### Overview

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-4

Valid cases: 368  
Invalid: 328

#### Literal question

In fiscal year 2009/2010 what best describes what happened at this establishment when a problem arose in the production process, such as a quality defect or machinery or equipment break-downs?

Q55. In fiscal year 2011/2012, were key performance indicators monitored at this (hd10a)

File: pakistan\_2013\_innovation\_data\_

#### Overview

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-2

Valid cases: 368  
Invalid: 328

#### Literal question

In fiscal year 2011/2012, were key performance indicators monitored at this establishment? Examples of performance indicators are metrics on production, cost, waste, quality, inventory, energy, absenteeism and on-time delivery.

Q56. In fiscal year 2011/2012, how many key performance indicators were monitored (hd10b)

File: pakistan\_2013\_innovation\_data\_

#### Overview

Q56. In fiscal year 2011/2012, how many key performance indicators were monitored (hd10b)

File: pakistan\_2013\_innovation\_data\_

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-3

Valid cases: 103  
Invalid: 593

**Literal question**

In fiscal year 2011/2012, how many key performance indicators were monitored at this establishment?

SHOW CARD 9 Q57. In fiscal year 2011/2012, how frequently were the key performance indicators reviewed (hd10c)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-5

Valid cases: 103  
Invalid: 593

**Literal question**

In fiscal year 2011/2012, how frequently were the key performance indicators reviewed by managers at this establishment?

Q58. In fiscal year 2009/2010, were key performance indicators monitored at this establishment (hd11a)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-2

Valid cases: 368  
Invalid: 328

**Literal question**

In fiscal year 2009/2010, were key performance indicators monitored at this establishment?

Q59. In fiscal year 2011/2012, how many key performance indicators were monitored (hd11b)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-3

Valid cases: 127  
Invalid: 569

**Literal question**

In fiscal year 2009/2010, how many key performance indicators were monitored at this establishment?

SHOW CARD 9 Q60. In fiscal year 2011/2012, how frequently were the key performan (hd11c)

File: pakistan\_2013\_innovation\_data\_

#### Overview

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-5

Valid cases: 127  
Invalid: 569

#### Literal question

In fiscal year 2009/2010, how frequently were the key performance indicators reviewed by managers at this establishment?

SHOW CARD 10 Q61. In fiscal year 2011/2012, what best describes the time frame o (hd12a)

File: pakistan\_2013\_innovation\_data\_

#### Overview

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-4

Valid cases: 368  
Invalid: 328

#### Literal question

In fiscal year 2011/2012, what best describes the time frame of production targets at this establishment? (Production targets may include desired amounts of production, quality, efficiency, waste reduction, and on-time delivery).

Q62. In fiscal year 2011/2012, did this establishment have any performance bonus (hd12b)

File: pakistan\_2013\_innovation\_data\_

#### Overview

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-2

Valid cases: 368  
Invalid: 328

#### Literal question

In fiscal year 2011/2012, did this establishment have any performance bonus for employees or managers?

SHOW CARD 11 Q63. What were these performance bonuses usually based on? (hd12c)

File: pakistan\_2013\_innovation\_data\_

#### Overview

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-2

Valid cases: 124  
Invalid: 572

#### Pre question

SHOW CARD 11 Q63. What were these performance bonuses usually based on? (hd12c)

File: pakistan\_2013\_innovation\_data\_

In fiscal year 2011/2012, did this establishment have any performance bonus for employees or managers?

**Literal question**

What were these performance bonuses usually based on?

SHOW CARD 10 Q64. In fiscal year 2009/2010, what best describes the time frame o (hd13a)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-4

Valid cases: 368  
Invalid: 328

**Literal question**

In fiscal year 2009/2010, what best describes the time frame of production/sales targets at this establishment?

Q65. In fiscal year 2009/2010, did this establishment have any performance bonus (hd13b)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-2

Valid cases: 368  
Invalid: 328

**Literal question**

In fiscal year 2009/2010, did this establishment have any performance bonus for employees or managers?

SHOW CARD 11 Q66. What were these performance bonuses usually based on? (hd13c)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-2

Valid cases: 119  
Invalid: 577

**Literal question**

What were these performance bonuses usually based on?

## Packaging? (READ EACH OPTION ALOUD Q67. From fiscal year 2009/2010 thru 2011/201 (he1a)

File: pakistan\_2013\_innovation\_data\_

### Overview

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-2

Valid cases: 696  
Invalid: 0

### Pre question

I would now like to ask some questions related to any innovative marketing methods.

### Literal question

From fiscal year 2009/2010 thru 2011/2012, did this establishment introduce or significantly change any of the following?  
Packaging

## Branding, logo, name, or trademark? (READ EACH OPTION ALOUD Q67. From fiscal yea (he1b)

File: pakistan\_2013\_innovation\_data\_

### Overview

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-2

Valid cases: 696  
Invalid: 0

### Literal question

From fiscal year 2009/2010 thru 2011/2012, did this establishment introduce or significantly change any of the following?  
Branding, logo, name, or trademark

## Products' appearance, excluding packaging or branding? (READ EACH OPTION ALOUD Q (he1c)

File: pakistan\_2013\_innovation\_data\_

### Overview

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-2

Valid cases: 696  
Invalid: 0

### Literal question

From fiscal year 2009/2010 thru 2011/2012, did this establishment introduce or significantly change any of the following?  
Products' appearance, excluding packaging or branding

## Advertising methods? (READ EACH OPTION ALOUD Q67. From fiscal year 2009/2010 thr (he1d)

File: pakistan\_2013\_innovation\_data\_

### Overview

## Advertising methods? (READ EACH OPTION ALOUD Q67. From fiscal year 2009/2010 thr (he1d)

File: pakistan\_2013\_innovation\_data\_

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-2

Valid cases: 696  
Invalid: 0

### Literal question

From fiscal year 2009/2010 thru 2011/2012, did this establishment introduce or significantly change any of the following?  
Advertising methods

## Promotion of the product or service? (READ EACH OPTION ALOUD Q67. From fiscal ye (he1e)

File: pakistan\_2013\_innovation\_data\_

### Overview

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-2

Valid cases: 696  
Invalid: 0

### Literal question

From fiscal year 2009/2010 thru 2011/2012, did this establishment introduce or significantly change any of the following?  
Promotion of the product or service

## Sales channels or sales points? (READ EACH OPTION ALOUD Q67. From fiscal year 20 (he1f)

File: pakistan\_2013\_innovation\_data\_

### Overview

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-2

Valid cases: 696  
Invalid: 0

### Literal question

From fiscal year 2009/2010 thru 2011/2012, did this establishment introduce or significantly change any of the following?  
Sales channels or sales points

## Discount schemes? (READ EACH OPTION ALOUD Q67. From fiscal year 2009/2010 thru 2 (he1g)

File: pakistan\_2013\_innovation\_data\_

### Overview

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-2

Valid cases: 696  
Invalid: 0

### Literal question

Discount schemes? (READ EACH OPTION ALOUD Q67. From fiscal year 2009/2010 thru 2 (he1g)

File: pakistan\_2013\_innovation\_data\_

From fiscal year 2009/2010 thru 2011/2012, did this establishment introduce or significantly change any of the following?  
Discount schemes

Pricing strategies, excluding discount schemes? (READ EACH OPTION ALOUD Q67. Fro (he1h)

File: pakistan\_2013\_innovation\_data\_

#### Overview

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-2

Valid cases: 696  
Invalid: 0

#### Literal question

From fiscal year 2009/2010 thru 2011/2012, did this establishment introduce or significantly change any of the following?  
Pricing strategies, excluding discount schemes

Payment schemes? (READ EACH OPTION ALOUD Q67. From fiscal year 2009/2010 thru 20 (he1i)

File: pakistan\_2013\_innovation\_data\_

#### Overview

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-2

Valid cases: 696  
Invalid: 0

#### Literal question

From fiscal year 2009/2010 thru 2011/2012, did this establishment introduce or significantly change any of the following?  
Payment schemes

Customer loyalty rewards? (READ EACH OPTION ALOUD Q67. From fiscal year 2009/201 (he1j)

File: pakistan\_2013\_innovation\_data\_

#### Overview

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-2

Valid cases: 696  
Invalid: 0

#### Literal question

From fiscal year 2009/2010 thru 2011/2012, did this establishment introduce or significantly change any of the following?  
Customer loyalty rewards

Q68. From fiscal year 2009/2010 thru 2011/2012, did this establishment use the s (he2a)

File: pakistan\_2013\_innovation\_data\_

#### Overview

Type: Discrete	Valid cases: 696
Format: numeric	Invalid: 0
Width: 2	
Decimals: 0	
Range: -9-2	

#### Literal question

From fiscal year 2009/2010 thru 2011/2012, did this establishment use the services of a marketing firm, consumer research firm, or advertising firm?

(he2b)

File: pakistan\_2013\_innovation\_data\_

#### Overview

Type: Discrete	Valid cases: 93
Format: numeric	Invalid: 603
Width: 8	
Decimals: 0	
Range: -9-40000000	

#### Literal question

From fiscal year 2009/2010 thru 2011/2012, how much did this establishment pay in total for those services?

Q70. From fiscal year 2009/2010 thru 2011/2012 did this establishment conduct in (hf1a)

File: pakistan\_2013\_innovation\_data\_

#### Overview

Type: Discrete	Valid cases: 696
Format: numeric	Invalid: 0
Width: 2	
Decimals: 0	
Range: -9-2	

#### Pre question

Now, I would like to ask you a few questions about activities associated with the development of innovation.

#### Literal question

From fiscal year 2009/2010 thru 2011/2012 did this establishment conduct internal R&D? (Internal R&D is defined as creative work undertaken to increase knowledge for developing innovative products and processes.)

(hf1b)

File: pakistan\_2013\_innovation\_data\_

#### Overview

Type: Discrete	Valid cases: 65
Format: numeric	Invalid: 631
Width: 8	
Decimals: 0	
Range: -9-50000000	

#### Literal question

(hf1b)

File: pakistan\_2013\_innovation\_data\_

How much did this establishment spend in total from fiscal year 2009/2010 thru 2011/2012 on internal R&amp;D?

Q72. From fiscal year 2009/2010 thru 2011/2012 did this establishment conduct ex (hf2a)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-2

Valid cases: 696  
Invalid: 0

**Literal question**

From fiscal year 2009/2010 thru 2011/2012 did this establishment conduct external R&D? (External R&D is defined as creative work, undertaken by other enterprises, public or private research organizations, which was paid for by this establishment.)

(hf2b)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete  
Format: numeric  
Width: 8  
Decimals: 0  
Range: -9-80000000

Valid cases: 42  
Invalid: 654

**Literal question**

How much did this establishment spend in total from fiscal year 2009/2010 thru 2011/2012 on external R&D?

Q74. From fiscal year 2009/2010 thru 2011/2012 did this establishment provide fo (hf3a)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-2

Valid cases: 696  
Invalid: 0

**Literal question**

From fiscal year 2009/2010 thru 2011/2012 did this establishment provide formal training to any of its employees specifically for the development and/or introduction of innovative products or services and processes?

(hf3b)

File: pakistan\_2013\_innovation\_data\_

**Overview**

(hf3b)

File: pakistan\_2013\_innovation\_data\_

Type: Discrete  
 Format: numeric  
 Width: 8  
 Decimals: 0  
 Range: -9-50000000

Valid cases: 150  
 Invalid: 546

**Literal question**

How much did this establishment spend in total from fiscal year 2009/2010 thru 2011/2012 on that formal training?

Q76. From fiscal year 2009/2010 thru 2011/2012 did this establishment purchase n (hf4a)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete  
 Format: numeric  
 Width: 2  
 Decimals: 0  
 Range: -9-2

Valid cases: 696  
 Invalid: 0

**Literal question**

From fiscal year 2009/2010 thru 2011/2012 did this establishment purchase new equipment, machinery, or software to develop or produce any innovative products or services and processes?

(hf4b)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete  
 Format: numeric  
 Width: 8  
 Decimals: 0  
 Range: -9-50000000

Valid cases: 124  
 Invalid: 572

**Literal question**

How much did this establishment spend in total from fiscal year 2009/2010 thru 2011/2012 on the purchase of that new equipment, machinery, or software?

Q78. From fiscal year 2009/2010 thru 2011/2012 did this establishment purchase o (hf5a)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete  
 Format: numeric  
 Width: 2  
 Decimals: 0  
 Range: -9-2

Valid cases: 696  
 Invalid: 0

**Literal question**

From fiscal year 2009/2010 thru 2011/2012 did this establishment purchase or license any patented or non-patented inventions, or other types of knowledge for the development of innovative products or services and processes?

(hf5b)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete  
 Format: numeric  
 Width: 8  
 Decimals: 0  
 Range: -9-30000000

Valid cases: 16  
 Invalid: 680

**Literal question**

How much did this establishment spend in total from fiscal year 2009/2010 thru 2011/2012 on any patented or non-patented inventions, or other types of knowledge?

Own funds? (READ EACH OPTION ALOUD Q80. From fiscal year 2009/2010 thru 2011/201 (hf7a)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete  
 Format: numeric  
 Width: 2  
 Decimals: 0  
 Range: -9-2

Valid cases: 696  
 Invalid: 0

**Literal question**

From fiscal year 2009/2010 thru 2011/2012, did this establishment fund its innovation activities from any of the following sources:  
 Own funds

Private or state-owned banks? (READ EACH OPTION ALOUD Q80. From fiscal year 2009 (hf7b)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete  
 Format: numeric  
 Width: 2  
 Decimals: 0  
 Range: -9-2

Valid cases: 696  
 Invalid: 0

**Literal question**

From fiscal year 2009/2010 thru 2011/2012, did this establishment fund its innovation activities from any of the following sources:  
 Private or state-owned banks

Government agencies or departments? (READ EACH OPTION ALOUD Q80. From fiscal yea (hf7c)

File: pakistan\_2013\_innovation\_data\_

**Overview**

## Government agencies or departments? (READ EACH OPTION ALOUD Q80. From fiscal yea (hf7c)

File: pakistan\_2013\_innovation\_data\_

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-2

Valid cases: 696  
Invalid: 0

### Literal question

From fiscal year 2009/2010 thru 2011/2012, did this establishment fund its innovation activities from any of the following sources:

Government agencies or departments

## NGOs or international organizations? (READ EACH OPTION ALOUD Q80. From fiscal ye (hf7d)

File: pakistan\_2013\_innovation\_data\_

### Overview

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-2

Valid cases: 696  
Invalid: 0

### Literal question

From fiscal year 2009/2010 thru 2011/2012, did this establishment fund its innovation activities from any of the following sources:

NGOs or international organizations

## Other, moneylenders, friends, relatives, etc.? (READ EACH OPTION ALOUD Q80. From (hf7e)

File: pakistan\_2013\_innovation\_data\_

### Overview

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-2

Valid cases: 696  
Invalid: 0

### Literal question

From fiscal year 2009/2010 thru 2011/2012, did this establishment fund its innovation activities from any of the following sources:

Other

## Q81. Between fiscal years 2009/2010 thru 2011/2012, did this establishment recei (hf8)

File: pakistan\_2013\_innovation\_data\_

### Overview

Q81. Between fiscal years 2009/2010 thru 2011/2012, did this establishment receive (hf8)

File: pakistan\_2013\_innovation\_data\_

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-2

Valid cases: 696  
Invalid: 0

#### Literal question

Between fiscal years 2009/2010 thru 2011/2012, did this establishment receive any non-financial support from the government for innovation-related activities? (This includes training in the use of innovation equipment, assistance in research and product development, and assistance and training for marketing innovations)

SHOW CARD 12 Q82. Thinking about innovation, which of the following is the most (hf6)

File: pakistan\_2013\_innovation\_data\_

#### Overview

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: 1-12

Valid cases: 696  
Invalid: 0

#### Literal question

Thinking about innovation, which of the following is the most important source of information or ideas for any innovation activity for this establishment?

Apply for a patent concerning a product innovation? (READ EACH OPTION ALOUD Q83. (hf9a)

File: pakistan\_2013\_innovation\_data\_

#### Overview

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-2

Valid cases: 696  
Invalid: 0

#### Literal question

From fiscal year 2009/2010 thru 2011/2012, did this establishment:  
Apply for a patent concerning a product innovation

Apply for a patent concerning a process innovation? (READ EACH OPTION ALOUD Q83. (hf9b)

File: pakistan\_2013\_innovation\_data\_

#### Overview

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-2

Valid cases: 696  
Invalid: 0

Apply for a patent concerning a process innovation? (READ EACH OPTION ALOUD Q83. (hf9b)

File: pakistan\_2013\_innovation\_data\_

**Literal question**

From fiscal year 2009/2010 thru 2011/2012, did this establishment:  
Apply for a patent concerning a process innovation

Apply for a utility model? (READ EACH OPTION ALOUD Q83. From fiscal year 2009/20 (hf9c)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-2

Valid cases: 696  
Invalid: 0

**Literal question**

From fiscal year 2009/2010 thru 2011/2012, did this establishment:  
Apply for a utility model

Register an industrial design? (READ EACH OPTION ALOUD Q83. From fiscal year 200 (hf9d)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-2

Valid cases: 696  
Invalid: 0

**Literal question**

From fiscal year 2009/2010 thru 2011/2012, did this establishment:  
Register an industrial design

Apply for a trademark? (READ EACH OPTION ALOUD Q83. From fiscal year 2009/2010 t (hf9e)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-2

Valid cases: 696  
Invalid: 0

**Literal question**

From fiscal year 2009/2010 thru 2011/2012, did this establishment:  
Apply for a trademark

Apply for a copyright? (READ EACH OPTION ALOUD Q83. From fiscal year 2009/2010 t (hf9f)

File: pakistan\_2013\_innovation\_data\_

#### Overview

Type: Discrete	Valid cases: 696
Format: numeric	Invalid: 0
Width: 2	
Decimals: 0	
Range: -9-2	

#### Literal question

From fiscal year 2009/2010 thru 2011/2012, did this establishment:  
Apply for a copyright

(ha1)

File: pakistan\_2013\_innovation\_data\_

#### Overview

Type: Discrete	Valid cases: 696
Format: numeric	Invalid: 0
Width: 3	
Decimals: 0	
Range: -9-100	

#### Pre question

I would like to ask you some questions about the use of computers and the internet in this establishment

#### Literal question

Currently, what percentage of this establishment's employees regularly uses computers in their jobs, including management?

Q85. From fiscal year 2009/2010 thru 2011/2012, did this establishment purchase (ha2)

File: pakistan\_2013\_innovation\_data\_

#### Overview

Type: Discrete	Valid cases: 465
Format: numeric	Invalid: 231
Width: 2	
Decimals: 0	
Range: -9-2	

#### Literal question

From fiscal year 2009/2010 thru 2011/2012, did this establishment purchase or develop in-house any software, which was customized to meet its needs?

Q86. From fiscal year 2009/2010 thru 2011/2012, did this establishment have any (ha3)

File: pakistan\_2013\_innovation\_data\_

#### Overview

Q86. From fiscal year 2009/2010 thru 2011/2012, did this establishment have any (ha3)

File: pakistan\_2013\_innovation\_data\_

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-2

Valid cases: 465  
Invalid: 231

**Literal question**

From fiscal year 2009/2010 thru 2011/2012, did this establishment have any employees entirely designated for IT?

Q87. From fiscal year 2009/2010 thru 2011/2012, did this establishment use the s (ha4)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-2

Valid cases: 465  
Invalid: 231

**Literal question**

From fiscal year 2009/2010 thru 2011/2012, did this establishment use the services of an external computer consultant or software consultant?

(ha5)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete  
Format: numeric  
Width: 7  
Decimals: 0  
Range: -9-1500000

Valid cases: 63  
Invalid: 633

**Literal question**

From fiscal year 2009/2010 thru 2011/2012, what was the total cost of these external computer consultant or software consultant?

Q89. Currently, does this establishment have an internet connection? (ha6)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-2

Valid cases: 696  
Invalid: 0

**Literal question**

Currently, does this establishment have an internet connection?

(ha7)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete  
 Format: numeric  
 Width: 4  
 Decimals: 0  
 Range: -9-2013

Valid cases: 437  
 Invalid: 259

**Literal question**

When did this establishment first obtain an internet connection?

E-mail with clients and suppliers? (READ EACH OPTION ALOUD Q91. Currently, does (ha8a)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete  
 Format: numeric  
 Width: 2  
 Decimals: 0  
 Range: -9-2

Valid cases: 437  
 Invalid: 259

**Literal question**

Currently, does this establishment use the internet to conduct any of the following activities:  
 E-mail with clients and suppliers

Internal communication amongst employees? (READ EACH OPTION ALOUD Q91. Currently (ha8b)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete  
 Format: numeric  
 Width: 2  
 Decimals: 0  
 Range: -9-2

Valid cases: 437  
 Invalid: 259

**Literal question**

Currently, does this establishment use the internet to conduct any of the following activities:  
 Internal communication amongst employees

Online purchases of inputs or finished goods purchased to resell? (READ EACH OPT (ha8c)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete  
 Format: numeric  
 Width: 2  
 Decimals: 0  
 Range: -9-2

Valid cases: 437  
 Invalid: 259

**Literal question**

## Online purchases of inputs or finished goods purchased to resell? (READ EACH OPT (ha8c)

File: pakistan\_2013\_innovation\_data\_

Currently, does this establishment use the internet to conduct any of the following activities:  
Online purchases of inputs or finished goods purchased to resell

## Online sales and order fulfillment? (READ EACH OPTION ALOUD Q91. Currently, does (ha8d)

File: pakistan\_2013\_innovation\_data\_

### Overview

Type: Discrete	Valid cases: 437
Format: numeric	Invalid: 259
Width: 2	
Decimals: 0	
Range: -9-2	

### Literal question

Currently, does this establishment use the internet to conduct any of the following activities:  
Online sales and order fulfillment

## Manage the inventory? (READ EACH OPTION ALOUD Q91. Currently, does this establis (ha8e)

File: pakistan\_2013\_innovation\_data\_

### Overview

Type: Discrete	Valid cases: 437
Format: numeric	Invalid: 259
Width: 2	
Decimals: 0	
Range: -9-2	

### Literal question

Currently, does this establishment use the internet to conduct any of the following activities:  
Manage the inventory

## Marketing of products? (READ EACH OPTION ALOUD Q91. Currently, does this establi (ha8f)

File: pakistan\_2013\_innovation\_data\_

### Overview

Type: Discrete	Valid cases: 437
Format: numeric	Invalid: 259
Width: 2	
Decimals: 0	
Range: -9-2	

### Literal question

Currently, does this establishment use the internet to conduct any of the following activities:  
Marketing of products

## Do research and develop ideas on new products and services? (READ EACH OPTION AL (ha8g)

File: pakistan\_2013\_innovation\_data\_

### Overview

Type: Discrete	Valid cases: 437
Format: numeric	Invalid: 259
Width: 2	
Decimals: 0	
Range: -9-2	

### Literal question

Currently, does this establishment use the internet to conduct any of the following activities:  
Do research and develop ideas on new products and services

(ha15d)

File: pakistan\_2013\_innovation\_data\_

### Overview

Type: Continuous	Valid cases: 696
Format: numeric	Invalid: 0
Width: 2	Minimum: 1
Decimals: 0	Maximum: 31
Range: 1-31	Mean: 15.7
	Standard deviation: 9.6

### Literal question

Time innovation module interview ends

(ha15m)

File: pakistan\_2013\_innovation\_data\_

### Overview

Type: Discrete	Valid cases: 696
Format: numeric	Invalid: 0
Width: 2	
Decimals: 0	
Range: 1-12	

### Literal question

Time innovation module interview ends

(ha15y)

File: pakistan\_2013\_innovation\_data\_

### Overview

Type: Discrete	Valid cases: 696
Format: numeric	Invalid: 0
Width: 4	
Decimals: 0	
Range: 2013-2014	

### Literal question

Time innovation module interview ends

(ha15h)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete	Valid cases: 696
Format: numeric	Invalid: 0
Width: 2	
Decimals: 0	
Range: 7-23	

**Literal question**

Time innovation module interview ends

(ha15min)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Continuous	Valid cases: 696
Format: numeric	Invalid: 0
Width: 2	Minimum: 0
Decimals: 0	Maximum: 59
Range: 0-59	Mean: 29.6
	Standard deviation: 17.4

**Literal question**

Time innovation module interview ends

(ha21x)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete	Valid cases: 696
Format: character	Invalid: 0
Width: 29	

**Literal question**

Information about the respondent for the innovation module

(ha21x1)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete	Valid cases: 2
Format: character	Invalid: 0
Width: 15	

**Literal question**

Information about the respondent for the innovation module

(ha22x)

File: pakistan\_2013\_innovation\_data\_

**Overview**

(ha22x)

File: pakistan\_2013\_innovation\_data\_

Type: Discrete  
 Format: character  
 Width: 29

Valid cases: 41  
 Invalid: 0

**Literal question**

Information about the respondent for the innovation module

Main respondent (Years with the firm) (Ha21a)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Continuous  
 Format: numeric  
 Width: 2  
 Decimals: 0  
 Range: 1-47

Valid cases: 696  
 Invalid: 0  
 Minimum: 1  
 Maximum: 47  
 Mean: 10.9  
 Standard deviation: 9

**Literal question**

Information about the respondent for the innovation module

Second respondent (Years with the firm) (Ha22a)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Continuous  
 Format: numeric  
 Width: 2  
 Decimals: 0  
 Range: 1-58

Valid cases: 41  
 Invalid: 655  
 Minimum: 1  
 Maximum: 58  
 Mean: 10.2  
 Standard deviation: 9.2

**Literal question**

Information about the respondent for the innovation module

Main respondent (Gender) (Ha21c)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete  
 Format: numeric  
 Width: 1  
 Decimals: 0  
 Range: 1-2

Valid cases: 696  
 Invalid: 0

**Literal question**

Information about the respondent for the innovation module

Second respondent (Gender) (Ha22c)

File: pakistan\_2013\_innovation\_data\_

**Overview**

## Second respondent (Gender) (Ha22c)

File: pakistan\_2013\_innovation\_data\_

Type: Discrete  
Format: numeric  
Width: 1  
Decimals: 0  
Range: 1-2

Valid cases: 41  
Invalid: 655

### Literal question

Information about the respondent for the innovation module

## (a3b)

File: pakistan\_2013\_innovation\_data\_

### Overview

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: 15-72

Valid cases: 696  
Invalid: 0

## Q2. Country (a1)

File: pakistan\_2013\_innovation\_data\_

### Overview

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: 90-90

Valid cases: 696  
Invalid: 0

## (d2)

File: pakistan\_2013\_innovation\_data\_

### Overview

Type: Discrete  
Format: numeric  
Width: 11  
Decimals: 0  
Range: -9-25000000000

Valid cases: 696  
Invalid: 0

Q54. In fiscal year 2009/2010, three fiscal years ago, what were total annual sa (n3)

File: pakistan\_2013\_innovation\_data\_

### Overview

Type: Discrete  
Format: numeric  
Width: 11  
Decimals: 0  
Range: -9-71810019701

Valid cases: 696  
Invalid: 0

Q68. During the last three years, has this establishment introduced new or signi (h1)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete	Valid cases: 696
Format: numeric	Invalid: 0
Width: 2	
Decimals: 0	
Range: -9-2	

Q69. Were any of the new or significantly improved products or services also new (h2)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete	Valid cases: 192
Format: numeric	Invalid: 504
Width: 2	
Decimals: 0	
Range: -9-2	

Q70. During the last three years, has this establishment introduced any new or s (h3)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete	Valid cases: 696
Format: numeric	Invalid: 0
Width: 2	
Decimals: 0	
Range: -9-2	

Q71. During the last three years, has this establishment introduced any new or s (h4a)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete	Valid cases: 696
Format: numeric	Invalid: 0
Width: 2	
Decimals: 0	
Range: -9-2	

Q72. During the last three years, has this establishment introduced any new or s (h4b)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Q72. During the last three years, has this establishment introduced any new or s (h4b)

File: pakistan\_2013\_innovation\_data\_

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-2

Valid cases: 696  
Invalid: 0

Q73. During the last three years, has this establishment introduced any new or s (h5)

File: pakistan\_2013\_innovation\_data\_

#### Overview

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-2

Valid cases: 696  
Invalid: 0

Q74. During the last three years, has this establishment introduced new or signi (h6)

File: pakistan\_2013\_innovation\_data\_

#### Overview

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-2

Valid cases: 696  
Invalid: 0

Q75. During the last three years, did this establishment spend on formal researc (h7)

File: pakistan\_2013\_innovation\_data\_

#### Overview

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: -9-2

Valid cases: 696  
Invalid: 0

Q76. During the last three years, did this establishment give employees some tim (h8)

File: pakistan\_2013\_innovation\_data\_

#### Overview

Q76. During the last three years, did this establishment give employees some tim (h8)

File: pakistan\_2013\_innovation\_data\_

Type: Discrete	Valid cases: 696
Format: numeric	Invalid: 0
Width: 2	
Decimals: 0	
Range: -9-2	

'The court system is fair, impartial and uncorrupted.' (Q112. I am going to read (h7a)

File: pakistan\_2013\_innovation\_data\_

#### Overview

Type: Discrete	Valid cases: 696
Format: numeric	Invalid: 0
Width: 2	
Decimals: 0	
Range: -9-4	

Courts (Complete the question by reading the response options Q126. Using the r (h30)

File: pakistan\_2013\_innovation\_data\_

#### Overview

Type: Discrete	Valid cases: 696
Format: numeric	Invalid: 0
Width: 2	
Decimals: 0	
Range: -9-4	

INCLUDE INTERVIWEE IF APPLICABLE Q127. At the end of fiscal year 2011/2012, how (l1)

File: pakistan\_2013\_innovation\_data\_

#### Overview

Type: Discrete	Valid cases: 696
Format: numeric	Invalid: 0
Width: 5	
Decimals: 0	
Range: -9-15000	

INCLUDE INTERVIWEE IF APPLICABLE Q128. Three fiscal years ago, at the end of fis (l2)

File: pakistan\_2013\_innovation\_data\_

#### Overview

INCLUDE INTERVIEWEE IF APPLICABLE Q128. Three fiscal years ago, at the end of fis (l2)

File: pakistan\_2013\_innovation\_data\_

Type: Discrete	Valid cases: 696
Format: numeric	Invalid: 0
Width: 5	
Decimals: 0	
Range: -9-15000	

(wstrict\_innov)

File: pakistan\_2013\_innovation\_data\_

#### Overview

Type: Continuous	Valid cases: 696
Format: numeric	Invalid: 0
Width: 16	Minimum: 1
Decimals: 0	Maximum: 193
Range: 1-193.019485473633	Mean: 19.4
	Standard deviation: 39.4

(wmedian\_innov)

File: pakistan\_2013\_innovation\_data\_

#### Overview

Type: Continuous	Valid cases: 696
Format: numeric	Invalid: 0
Width: 16	Minimum: 1
Decimals: 0	Maximum: 193
Range: 1-193.019485473633	Mean: 20
	Standard deviation: 39.5

(wweak\_innov)

File: pakistan\_2013\_innovation\_data\_

#### Overview

Type: Continuous	Valid cases: 696
Format: numeric	Invalid: 0
Width: 16	Minimum: 1
Decimals: 0	Maximum: 193
Range: 1-193.019485473633	Mean: 20.9
	Standard deviation: 39.5

Sampling Region (a2)

File: pakistan\_2013\_innovation\_data\_

#### Overview

Type: Discrete	Valid cases: 696
Format: numeric	Invalid: 0
Width: 1	
Decimals: 0	
Range: 1-5	

(a3a)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: 15-72

Valid cases: 696  
Invalid: 0

Industry Sampling Sector (a4a)

File: pakistan\_2013\_innovation\_data\_

**Overview**

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: 1-10

Valid cases: 696  
Invalid: 0

## Related Materials

### Questionnaires

#### Innovation Follow-up Survey Questionnaire

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Title Innovation Follow-up Survey Questionnaire  
Language English  
Filename Innovation Module PAK EN 08 09 2013 v1.pdf

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### Technical documents

#### Pakistan Innovation Follow-up Survey Note

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Title Pakistan Innovation Follow-up Survey Note  
Language English  
Filename pakistan2013\_innovation\_follow\_up\_survey\_note.pdf

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