

Sudan - Enterprise Survey 2014, Innovation Follow-up Survey

World Bank

Report generated on: October 7, 2015

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Sampling

Sampling Procedure

Respondents were randomly selected from a list of establishments interviewed for Sudan 2014 Enterprise Survey. The goal was to have a final sample of 75% of the original businesses.

Weighting

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

Start	End	Cycle
2014-06	2014-12	N/A

Data Collection Mode

Face-to-face [f2f]

Data Collectors

Name	Abbreviation	Affiliation
ConsulSat for Information Services		

Data Processing

No content available

Data Appraisal

No content available

File Description

Variable List

sudan2014_innovation_data

Content

Cases	412
Variable(s)	149
Structure	Type: Keys: ()
Version	
Producer	
Missing Data	

Variables

ID	Name	Label	Type	Format	Question
V490	id	id - firm id	discrete	numeric	
V491	recnumber	recnumber	discrete	numeric	
V492	preference	preference - Preference	contin	numeric	
V493	a4a	a4a - Industry Samplig Sector	discrete	numeric	
V494	a4b	a4b - Industry Screener Sector	discrete	numeric	
V495	a6a	a6a - Samplig Size	discrete	numeric	
V496	a6b	a6b - Screener Size	discrete	numeric	
V497	b5	b5 - In what year did this establishment begin operations?	contin	numeric	
V498	ha0	ha0 - Questionnaire	discrete	numeric	
V499	ha14d	ha14d - Day	discrete	numeric	
V500	ha14m	ha14m - Month	discrete	numeric	
V501	ha14y	ha14y - Year	discrete	numeric	
V502	ha14h	ha14h - Hour	discrete	numeric	
V503	ha14min	ha14min - Minutes	discrete	numeric	
V504	ha0b	ha0b - Same respondent as the ES	discrete	numeric	
V505	hb1	hb1 - From fiscal year 2011 thru 2013, did this establishment introduce any inno	discrete	numeric	From financial year [insert FY] thru [insert FY-2], did this establishment introduce any new or significantly improved product or service?
V506	hb5x	hb5x - Please describe in detail the main innovative product or service that thi	discrete	character	Please describe in detail the main new or significantly improved product or service that this establishment introduced from financial year [insert FY] thru [insert FY-2].
V507	hb6	hb6 - Year the main innovative product was introduced	discrete	numeric	In which year did this establishment introduce the main innovative product or service?
V508	hb4	hb4 - Percentage of sales from the main innovative product or service	contin	numeric	In financial year [insert FY], what percentage of this establishment's total sales was represented by sales from the main new or significantly improved product or service?
V509	hb5a	hb5a - Is the main new of significantly improved product or servic produced by t	discrete	numeric	Is the main new or significantly improved product or service produced by this establishment?

ID	Name	Label	Type	Format	Question
V510	hb5b	hb5b - Is the main new of significantly improved product or service a product th	discrete	numeric	Is the main new or significantly improved product or service a product that this establishment purchases to resell?
V511	hb9a	hb9a - Does it have cdifferent functions?	discrete	numeric	I will now ask you a few questions about the main new or significantly improved product or service compared with all other products and services already produced in this establishment. Does it have different functions?
V512	hb9b	hb9b - Does it have different features	discrete	numeric	I will now ask you a few questions about the main new or significantly improved product or service compared with all other products and services already produced in this establishment. Does it have different features?
V513	hb9c	hb9c - Is it cheaper to produce or offer?	discrete	numeric	I will now ask you a few questions about the main new or significantly improved product or service compared with all other products and services already produced in this establishment. Is it cheaper to produce or offer?
V514	hb9d	hb9d - Does it look different	discrete	numeric	I will now ask you a few questions about the main new or significantly improved product or service compared with all other products and services already produced in this establishment. Does it look different?
V515	hb9e	hb9e - Does it use different inputs?	discrete	numeric	I will now ask you a few questions about the main new or significantly improved product or service compared with all other products and services already produced in this establishment. Does it use different inputs?
V516	hb10a	hb10a - To replace a product or service offered by this establishment	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
V517	hb10b	hb10b - To extend the range of products or service offered by this establishment	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
V518	hb10c	hb10c - To open up new markets or increase market share	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
V519	hb10d	hb10d - To decrease the cost of production or offering the service	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
V520	hb10e	hb10e - To offer products or service already offered by competitors	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
V521	hb10f	hb10f - To comply with regulations or standards (e.g. safety or environmental r	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)
V522	hb10g	hb10g - To deal with a decrease in the demand for other products or service	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
V523	hb11a	hb11a - New to the local market	discrete	numeric	When this main innovative product or service was introduced by this establishment, was it New to the local market

ID	Name	Label	Type	Format	Question
V524	hb11b	hb11b - New to the national market	discrete	numeric	When this main innovative product or service was introduced by this establishment, was it New to the national market
V525	hb11c	hb11c - New to the international market	discrete	numeric	When this main innovative product or service was introduced by this establishment, was it New to the international market
V526	hb12	hb12 - How did this establishment develop the idea for this main innovative prod	discrete	numeric	How did this establishment develop the idea for this main innovative product or service?
V527	hb13	hb13 - Who developed the main new or significantly improved product or service?	discrete	numeric	Was the main innovative product or service developed entirely by this establishment?
V528	hb19a	hb19a - Abandoned or suspended before completion	discrete	numeric	From financial year [insert FY] thru [insert FY-2], did this establishment attempt to develop an innovative product or service that was Abandoned or suspended before completion
V529	hb19b	hb19b - Still ongoing at the end of fiscal year 2013	discrete	numeric	From financial year [insert FY] thru [insert FY-2], did this establishment attempt to develop an innovative product or service that was Still ongoing at the end of financial year
V530	hc1	hc1 - From fiscal year 2011 thru 2013, did this establishment introduce any inno	discrete	numeric	From financial year [insert FY] thru [insert FY-2], did this establishment introduce any new or significantly improved methods of manufacturing products or offering services?
V531	hc2	hc2 - From fiscal year 2011 thru 2013, did this establishment introduce any inno	discrete	numeric	From financial year [insert FY] thru [insert FY-2], did this establishment introduce any new or significantly improved logistics, delivery, or distribution methods for inputs, products, or services?
V532	hc3	hc3 - From fiscal year 2011 thru 2013, did this establishment introduce any inno	discrete	numeric	From financial year [insert FY] thru [insert FY-2], did this establishment introduce any new or significantly improved supporting activity for processes, such as maintenance systems or operations for purchasing, accounting, or computing?
V533	hc4	hc4 - INTERVIEWER, PLEASE MARK THE FOLLOWING BASED ON THE ABOVE 3 QUESTIONS	discrete	numeric	
V534	hc5x	hc5x - Please describe in detail this establishment's main innovative process	discrete	character	Please describe in detail this establishment's main innovative process
V535	hc5a	hc5a - Is the main new of significantly improved process?	discrete	numeric	Is this main new or significantly improved process?
V536	hc6	hc6 - Year the most important innovative process was introduced	contin	numeric	In which year did this establishment introduce this most important new or significantly improved process?
V537	hc8	hc8 - Does the most important new or significantly improved process automate man	discrete	numeric	Does the most important new or significantly improved process automate manual processes, partially or fully?
V538	hc9	hc9 - Is the most important innovative process associated with an innovative pro	discrete	numeric	Is the most important innovative process associated with an innovative product or service introduced by this establishment?
V539	hc10i	hc10i - To introduce or support a new or significantly improved product or servi	discrete	numeric	Do any of the following describe why this establishment introduced the most important new or significantly improved process? To introduce or support a new or significantly improved product or service

ID	Name	Label	Type	Format	Question
V540	hc10a	hc10a - To increase the quality of products or services	discrete	numeric	Do any of the following describe why this establishment introduced the most important new or significantly improved process? To increase the quality of products or services
V541	hc10c	hc10c - To increase the flexibility of production or offering service	discrete	numeric	Do any of the following describe why this establishment introduced the most important new or significantly improved process? To increase the flexibility of production or offering service
V542	hc10d	hc10d - To increase the speed of production or offering service	discrete	numeric	Do any of the following describe why this establishment introduced the most important new or significantly improved process? To increase the speed of production or offering service
V543	hc10e	hc10e - To increase the speed of delivery to the customer	discrete	numeric	Do any of the following describe why this establishment introduced the most important new or significantly improved process? To increase the speed of delivery to the customer
V544	hc10f	hc10f - To decrease the cost of production or offering service	discrete	numeric	Do any of the following describe why this establishment introduced the most important new or significantly improved process? To decrease the cost of production or offering service
V545	hc10g	hc10g - To reduce waste or errors (defect rate or rejection rate)	discrete	numeric	Do any of the following describe why this establishment introduced the most important new or significantly improved process? To reduce waste or errors (defect rate or rejection rate)
V546	hc10h	hc10h - To comply with regulations or standards	discrete	numeric	Do any of the following describe why this establishment introduced the most important new or significantly improved process? To comply with regulations or standards (e.g. safety or environmental regulations)
V547	hc11a	hc11a - New to the local market	discrete	numeric	When the most important new or significantly improved process was introduced in this establishment, was it New to the local market
V548	hc11b	hc11b - New to the national market	discrete	numeric	When the most important new or significantly improved process was introduced in this establishment, was it New to the national market
V549	hc11c	hc11c - New to the international market	discrete	numeric	When the most important new or significantly improved process was introduced in this establishment, was it New to the international market
V550	hc12	hc12 - How did this establishment develop the idea for this most important innov	discrete	numeric	How did this establishment develop the idea for this most important innovative process?
V551	hc13	hc13 - Who developed the main new or significantly improved process?	discrete	numeric	Was the most important innovative process developed entirely by this establishment?
V552	hd1a	hd1a - Number of employees reporting directly to Top Manager in fiscal year 2013	contin	numeric	In financial year [insert FY], 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)).
V553	hd1b	hd1b - Number of employees reporting directly to Top Manager in fiscal year 2011	contin	numeric	In financial year [insert FY-2], how many employees reported directly to the Top Manager of this establishment?
V554	hd2a	hd2a - Number of layers of direct reporting in fiscal year 2013	contin	numeric	In financial year [insert FY], how many layers of direct reporting were there in this establishment from the Top Manager down to the lowest-level of employee?

ID	Name	Label	Type	Format	Question
V555	hd2b	hd2b - Number of layers of direct reporting in fiscal year 2011	contin	numeric	In financial year [insert FY-2], how many layers of direct reporting were there in this establishment from the Top Manager down to the lowest-level of employee?
V556	hd3a	hd3a - Create a new unit or department	discrete	numeric	From financial year [insert FY] thru [insert FY-2], did the establishment make any changes in its organizational structure in any of the following ways: Create a new unit or department
V557	hd3b	hd3b - Dissolve any units or department	discrete	numeric	From financial year [insert FY] thru [insert FY-2], did the establishment make any changes in its organizational structure in any of the following ways: Dissolve any units or department
V558	hd3c	hd3c - Merge any units or department	discrete	numeric	From financial year [insert FY] thru [insert FY-2], did the establishment make any changes in its organizational structure in any of the following ways: Merge any units or department
V559	hd7	hd7 - From fiscal year 2011 thru 2013, did this establishment contract other fir	discrete	numeric	From financial year [insert FY] thru [insert FY-2], did this establishment contract other firms to perform any activities previously done in-house (outsourcing)?
V560	hd8	hd8 - From fiscal year 2011 thru 2013, did this establishment start doing in-hou	discrete	numeric	From financial year [insert FY] thru [insert FY-2], did this establishment start doing in-house any activities previously contracted to other firms (insourcing)?
V561	hd4	hd4 - From fiscal year 2011 thru 2013, did this establishment introduce any chan	discrete	numeric	From financial year [insert FY] thru [insert FY-2], did this establishment introduce any change in the method of hiring employees, excluding managerial and supervisory staff?
V562	hd5	hd5 - From fiscal year 2011 thru 2013, did this establishment introduce any chan	discrete	numeric	From financial year [insert FY] thru [insert FY-2], did this establishment introduce any change in the method of hiring managerial and supervisory staff?
V563	hd6a	hd6a - Suppliers or customers	discrete	numeric	From financial year [insert FY] thru [insert FY-2], did the manager(s) at this establishment adopt management practices from Suppliers or customers
V564	hd6b	hd6b - Trade associations or workshops	discrete	numeric	From financial year [insert FY] thru [insert FY-2], did the manager(s) at this establishment adopt management practices from Trade associations or workshops
V565	hd6c	hd6c - New employees	discrete	numeric	From financial year [insert FY] thru [insert FY-2], did the manager(s) at this establishment adopt management practices from New employees
V566	hd6d	hd6d - Competitors	discrete	numeric	From financial year [insert FY] thru [insert FY-2], did the manager(s) at this establishment adopt management practices from Competitors
V567	hd6e	hd6e - Consultants	discrete	numeric	From financial year [insert FY] thru [insert FY-2], did the manager(s) at this establishment adopt management practices from Consultants
V568	hd9a	hd9a - In fiscal year 2013 what best describes what happened at this establishme	discrete	numeric	In financial year [insert FY] 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?
V569	hd9b	hd9b - In fiscal year 2011 what best describes what happened at this establishme	discrete	numeric	In financial year [insert FY] 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?

ID	Name	Label	Type	Format	Question
V570	hd10a	hd10a - In fiscal year 2013, were key performance indicators monitored at this e	discrete	numeric	In financial year [insert FY], 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.
V571	hd10c	hd10c - In fiscal year 2013, how frequently were the key performance indicators	discrete	numeric	In financial year [insert FY], how frequently were the key performance indicators reviewed by managers at this establishment?
V572	hd11a	hd11a - In fiscal year 2011, were key performance indicators monitored at this e	discrete	numeric	In financial year [insert FY], were key performance indicators monitored at this establishment?
V573	hd11c	hd11c - In fiscal year 2011, how frequently were the key performance indicators	discrete	numeric	In financial year [insert FY], how frequently were the key performance indicators reviewed by managers at this establishment?
V574	hd12a	hd12a - In fiscal year 2013, what best describes the time frame of production/sa	discrete	numeric	In financial year [insert FY], what best describes the time frame of production/sales targets at this establishment? (Production targets may include desired amounts of production, quality, efficiency, waste reduction, and on-time delivery).
V575	hd13a	hd13a - In fiscal year 2011, what best describes the time frame of production/sa	discrete	numeric	In financial year [insert FY], what best describes the time frame of production/sales targets at this establishment?
V576	he1a	he1a - Packaging, branding, logo, name, trademark or product appearance	discrete	numeric	From financial year [insert FY] thru [insert FY-2], did this establishment introduce or significantly change any of the following?
V577	he1b	he1b - Advertising methods, promotions, sales chanel or sales points	discrete	numeric	From financial year [insert FY] thru [insert FY-2], did this establishment introduce or significantly change advertising methods, promotions, sales channels or sales points?
V578	he1c	he1c - Pricing strategies, discount scheme, payment scheme, or customer loyalty	discrete	numeric	From financial year [insert FY] thru [insert FY], did this establishment introduce or significantly change pricing strategy, discount scheme, payment scheme, or customer loyalty programs.
V579	hf1a	hf1a - From fiscal year 2011 thru 2013 did this establishment conduct internal R	discrete	numeric	From [insert FY] thru [insert FY-2] 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.)
V580	hf1b	hf1b - How much did this establishment spend in total from fiscal year 2011 thru	contin	numeric	How much did this establishment spend in total from fiscal year [insert FY] thru [insert FY-2] on internal R&D?
V581	hf2a	hf2a - From fiscal year 2011 thru 2013 did this establishment conduct external R	discrete	numeric	From [insert FY] thru [insert FY-2] 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.)
V582	hf2b	hf2b - How much did this establishment spend in total from fiscal year 2011 thru	contin	numeric	How much did this establishment spend in total from [insert FY] thru [insert FY-2] on external R&D?
V583	hf3a	hf3a - From fiscal year 2011 thru 2013 did this establishment provide formal tra	discrete	numeric	From [insert FY] thru [insert FY-2] 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?
V584	hf3b	hf3b - How much did this establishment spend in total from fiscal year 2011 thru	contin	numeric	How much did this establishment spend in total from [insert FY] thru [insert FY-2] on that formal training?

ID	Name	Label	Type	Format	Question
V585	hf4a	hf4a - From fiscal year 2011 thru 2013 did this establishment purchase new equip	discrete	numeric	From [insert FY] thru [insert FY-2] did this establishment purchase new equipment, machinery, or software to develop or produce any innovative products or services and processes?
V586	hf4b	hf4b - How much did this establishment spend in total from fiscal year 2011 thru	contin	numeric	How much did this establishment spend in total from [insert FY] thru [insert FY-2] on the purchase of that new equipment, machinery, or software?
V587	hf5a	hf5a - From fiscal year 2011 thru 2013 did this establishment purchase or licens	discrete	numeric	From [insert FY] thru [insert FY-2] 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?
V588	hf8	hf8 - Between fiscal years 2011 and 2013, did this establishment receive any non	discrete	numeric	Between fiscal years [insert FY] and [insert FY-2], 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)
V589	hf8b	hf8b - Between fiscal years 2011 and 2013, did this establishment spend any mone	discrete	numeric	Between financial years [insert FY] and [insert FY-2], did this establishment spend any money on innovation activities?
V590	hf7a	hf7a - Own funds	discrete	numeric	From financial year [insert FY] thru [insert FY-2], did this establishment fund its innovation activities from any of the following sources: Own funds
V591	hf7b	hf7b - Private or state-owned banks	discrete	numeric	From financial year [insert FY] thru [insert FY-2], did this establishment fund its innovation activities from any of the following sources: Private or state-owned banks
V592	hf7c	hf7c - Government agencies or departments	discrete	numeric	From financial year [insert FY] thru [insert FY-2], did this establishment fund its innovation activities from any of the following sources: Government agencies or departments
V593	hf7d	hf7d - NGOs or international organizations	discrete	numeric	From financial year [insert FY] thru [insert FY-2], did this establishment fund its innovation activities from any of the following sources: NGOs or international organizations
V594	hf7e	hf7e - Other, moneylenders, friends, relatives, etc.	discrete	numeric	From financial year [insert FY] thru [insert FY-2], did this establishment fund its innovation activities from any of the following sources: Other, moneylenders, friends, relatives, etc.
V595	hf6	hf6 - Thinking about innovation, which of the following is the most important so	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?
V596	hf10a	hf10a - Did this establishment cooperate with ant of the following institutions	discrete	numeric	Did this establishment cooperate with any of the following institutions for innovation related activities? Any domestic firms
V597	hf10b	hf10b - Any foreign firms or a foreign-owned patent firm	discrete	numeric	Did this establishment cooperate with any of the following institutions for innovation related activities? Any foreign firms or a foreign-owned parent firm
V598	hf10c	hf10c - Domestic academic or research institutions	discrete	numeric	Did this establishment cooperate with any of the following institutions for innovation related activities? Domestic academic or research institutions
V599	hf10d	hf10d - Foreign academic or research institutions	discrete	numeric	Did this establishment cooperate with any of the following institutions for innovation related activities? Foreign academic or research institutions
V600	hf10e	hf10e - Provare consulting company or individuals	discrete	numeric	Did this establishment cooperate with any of the following institutions for innovation related activities? Private consulting company or individuals

ID	Name	Label	Type	Format	Question
V601	hf10f	hf10f - Government	discrete	numeric	Did this establishment cooperate with any of the following institutions for innovation related activities? Government
V602	hf9a	hf9a - Apply for a patent concerning a product or process innovation	discrete	numeric	From fiscal year [insert FY] thru [insert FY-2], did this establishment: Apply for a patent concerning a product or process innovation
V603	hf9c	hf9c - Apply for a utility model	discrete	numeric	From fiscal year [insert FY] thru [insert FY-2], did this establishment: Apply for a utility model
V604	hf9d	hf9d - Register an industrial design	discrete	numeric	From fiscal year [insert FY] thru [insert FY-2], did this establishment: Register an industrial design
V605	hf9e	hf9e - Apply for a trademark	discrete	numeric	From fiscal year [insert FY] thru [insert FY-2], did this establishment: Apply for a trademark
V606	hf9f	hf9f - Apply for a copyright	discrete	numeric	From fiscal year [insert FY] thru [insert FY-2], did this establishment: Apply for a copyright
V607	hf9x	hf9x - With what agency or authority did this establishment apply for or register	discrete	character	With which agencies or authorities did this establishment apply for or register these items?
V608	ha1	ha1 - Percentage of employees regularly using computers	contin	numeric	Currently, what percentage of this establishment's employees regularly uses computers in their jobs, including management?
V609	ha2	ha2 - From fiscal year 2011 thru 2013, did this establishment purchase or develop	discrete	numeric	From fiscal year [insert FY] thru [insert FY-2], did this establishment purchase or develop in-house any software, which was customized to meet its needs?
V610	ha3	ha3 - From fiscal year 2011 thru 2013, did this establishment have any employees	discrete	numeric	From fiscal year [insert FY] thru [insert FY-2], did this establishment have any employees entirely designated for IT?
V611	ha4	ha4 - From fiscal year 2011 thru 2013, did this establishment use the services of	discrete	numeric	From fiscal year [insert FY] thru [insert FY-2], did this establishment use the services of an external IT consultant?
V612	ha5	ha5 - From fiscal year 2011 thru 2013, what was the total cost of these external	contin	numeric	From [insert FY] thru [insert FY-2], what was the total cost of these external computer consultant or software consultant?
V613	ha6	ha6 - Currently, does this establishment have an internet connection?	discrete	numeric	Currently, does this establishment have an internet connection?
V614	ha7	ha7 - Year the establishment first obtain an internet connection	discrete	numeric	When did this establishment first obtain an internet connection?
V615	ha8a	ha8a - E-mail with clients and suppliers	discrete	numeric	Currently, does this establishment use the internet to conduct any of the following activities: E-mail with clients and suppliers
V616	ha8b	ha8b - Internal communication amongst employees	discrete	numeric	Currently, does this establishment use the internet to conduct any of the following activities: Internal communication amongst employees
V617	ha8c	ha8c - Online purchases of inputs or finished goods purchased to resell	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
V618	ha8d	ha8d - Online sales and order fulfillment	discrete	numeric	Currently, does this establishment use the internet to conduct any of the following activities: Online sales and order fulfillment
V619	ha8e	ha8e - Manage the inventory	discrete	numeric	Currently, does this establishment use the internet to conduct any of the following activities: Manage the inventory

ID	Name	Label	Type	Format	Question
V620	ha8f	ha8f - Marketing of products	discrete	numeric	Currently, does this establishment use the internet to conduct any of the following activities: Marketing of products
V621	ha8g	ha8g - Do research and develop ideas on new products and services	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
V622	ha15d	ha15d - Time face-to-face interview ends:Day	discrete	numeric	
V623	ha15m	ha15m - Time face-to-face interview ends:Month	discrete	numeric	
V624	ha15y	ha15y - Time face-to-face interview ends:Year	discrete	numeric	
V625	ha15h	ha15h - Time face-to-face interview ends:Hour	discrete	numeric	
V626	ha15min	ha15min - Time face-to-face interview ends:Minutes	discrete	numeric	
V627	ha21x	Ha21x - main respondent's position in the firm	discrete	character	
V628	ha21a	Ha21a - main respondent's years with the firm	contin	numeric	
V629	ha21c	Ha21c - main respondent's gender	discrete	numeric	
V630	ha22x	Ha22x - second respondent's position in the firm	discrete	character	
V631	ha22a	Ha22a - second respondent's years with the firm	discrete	numeric	
V632	ha22c	Ha22c - second respondent's gender	discrete	numeric	
V633	ha23x	Ha23x - Third respondent's position in the firm	discrete	character	
V634	ha23a	Ha23a - Third respondent's years with the firm	discrete	numeric	
V635	ha23c	Ha23c - Third respondent's gender	discrete	numeric	
V637	wstrict_innov		contin	numeric	
V638	wmedian_innov		contin	numeric	
V639	wweak_innov		contin	numeric	

id - firm id (id)

File: sudan2014_innovation_data

Overview

Type: Discrete
 Format: numeric
 Width: 6
 Decimals: 0
 Range: 120006-122539

Valid cases: 412
 Invalid: 0
 Minimum: 120006
 Maximum: 122539

recnumber (recnumber)

File: sudan2014_innovation_data

Overview

Type: Discrete
 Format: numeric
 Width: 2
 Decimals: 0
 Range: 1-75

Valid cases: 412
 Invalid: 0
 Minimum: 1
 Maximum: 75

preference - Preference (preference)

File: sudan2014_innovation_data

Overview

Type: Continuous
 Format: numeric
 Width: 2
 Decimals: 0
 Range: 1-45

Valid cases: 412
 Invalid: 0
 Minimum: 1
 Maximum: 45

a4a - Industry Samplig Sector (a4a)

File: sudan2014_innovation_data

Overview

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

Valid cases: 0
 Invalid: 412

a4b - Industry Screener Sector (a4b)

File: sudan2014_innovation_data

Overview

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

Valid cases: 412
 Invalid: 0

a6a - Samplig Size (a6a)

File: sudan2014_innovation_data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 0-4

Valid cases: 412
 Invalid: 0

a6b - Screener Size (a6b)

File: sudan2014_innovation_data

Overview

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

Valid cases: 412
 Invalid: 0

b5 - In what year did this establishment begin operations? (b5)

File: sudan2014_innovation_data

Overview

Type: Continuous
 Format: numeric
 Width: 4
 Decimals: 0
 Range: -9-2014

Valid cases: 412
 Invalid: 0
 Minimum: -9

ha0 - Questionnaire (ha0)

File: sudan2014_innovation_data

Overview

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

Valid cases: 412
 Invalid: 0

ha14d - Day (ha14d)

File: sudan2014_innovation_data

Overview

Type: Discrete
 Format: numeric
 Width: 2
 Decimals: 0
 Range: 1-30

Valid cases: 412
 Invalid: 0

ha14m - Month (ha14m)

File: sudan2014_innovation_data

Overview

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

Valid cases: 412
 Invalid: 0

ha14y - Year (ha14y)

File: sudan2014_innovation_data

Overview

Type: Discrete
 Format: numeric
 Width: 4
 Decimals: 0
 Range: 2014-2014

Valid cases: 412
 Invalid: 0

ha14h - Hour (ha14h)

File: sudan2014_innovation_data

Overview

Type: Discrete
 Format: numeric
 Width: 2
 Decimals: 0
 Range: 1-16

Valid cases: 412
 Invalid: 0

ha14min - Minutes (ha14min)

File: sudan2014_innovation_data

Overview

Type: Discrete
 Format: numeric
 Width: 2
 Decimals: 0
 Range: 0-59

Valid cases: 412
 Invalid: 0

ha0b - Same respondent as the ES (ha0b)

File: sudan2014_innovation_data

Overview

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

Valid cases: 412
 Invalid: 0

hb1 - From fiscal year 2011 thru 2013, did this establishment introduce any inno (hb1)

File: sudan2014_innovation_data

Overview

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

Valid cases: 412
Invalid: 0

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 financial year [insert FY] thru [insert FY-2], did this establishment introduce any new or significantly improved product or service?

hb5x - Please describe in detail the main innovative product or service that thi (hb5x)

File: sudan2014_innovation_data

Overview

Type: Discrete
Format: character
Width: 136

Valid cases: 136

Pre question

The next questions are about this establishment's main new or significantly improved 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 financial year [insert FY].

Literal question

Please describe in detail the main new or significantly improved product or service that this establishment introduced from financial year [insert FY] thru [insert FY-2].

hb6 - Year the main innovative product was introduced (hb6)

File: sudan2014_innovation_data

Overview

Type: Discrete
Format: numeric
Width: 4
Decimals: 0
Range: -9-2014

Valid cases: 136
Invalid: 276

Literal question

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

hb4 - Percentage of sales from the main innovative product or service (hb4)

File: sudan2014_innovation_data

Overview

hb4 - Percentage of sales from the main innovative product or service (hb4)

File: sudan2014_innovation_data

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

Valid cases: 136
Invalid: 276
Minimum: -9
Maximum: 100

Literal question

In financial year [insert FY], what percentage of this establishment's total sales was represented by sales from the main new or significantly improved product or service?

hb5a - Is the main new or significantly improved product or service produced by this establishment? (hb5a)

File: sudan2014_innovation_data

Overview

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

Valid cases: 136
Invalid: 276

Literal question

Is the main new or significantly improved product or service produced by this establishment?

hb5b - Is the main new or significantly improved product or service a product that this establishment purchases to resell? (hb5b)

File: sudan2014_innovation_data

Overview

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

Valid cases: 61
Invalid: 351

Literal question

Is the main new or significantly improved product or service a product that this establishment purchases to resell?

hb9a - Does it have different functions? (hb9a)

File: sudan2014_innovation_data

Overview

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

Valid cases: 136
Invalid: 276

Literal question

I will now ask you a few questions about the main new or significantly improved product or service compared with all other products and services already produced in this establishment.
Does it have different functions?

hb9a - Does it have different functions? (hb9a)

File: sudan2014_innovation_data

Interviewer instructions

READ EACH OPTION ALOUD

hb9b - Does it have different features (hb9b)

File: sudan2014_innovation_data

Overview

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

Valid cases: 136
 Invalid: 276

Literal question

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

Does it have different features?

Interviewer instructions

READ EACH OPTION ALOUD

hb9c - Is it cheaper to produce or offer? (hb9c)

File: sudan2014_innovation_data

Overview

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

Valid cases: 136
 Invalid: 276

Literal question

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

Is it cheaper to produce or offer?

Interviewer instructions

READ EACH OPTION ALOUD

hb9d - Does it look different (hb9d)

File: sudan2014_innovation_data

Overview

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

Valid cases: 136
 Invalid: 276

Literal question

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

Does it look different?

Interviewer instructions

READ EACH OPTION ALOUD

hb9e - Does it use different inputs? (hb9e)

File: sudan2014_innovation_data

Overview

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

Valid cases: 136
 Invalid: 276

Literal question

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

Does it use different inputs?

Interviewer instructions

READ EACH OPTION ALOUD

hb10a - To replace a product or service offered by this establishment (hb10a)

File: sudan2014_innovation_data

Overview

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

Valid cases: 136
 Invalid: 276

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

Interviewer instructions

READ EACH OPTION ALOUD

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

File: sudan2014_innovation_data

Overview

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

Valid cases: 136
 Invalid: 276

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

Interviewer instructions

READ EACH OPTION ALOUD

hb10c - To open up new markets or increase market share (hb10c)

File: sudan2014_innovation_data

hb10c - To open up new markets or increase market share (hb10c)

File: sudan2014_innovation_data

Overview

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

Valid cases: 136
Invalid: 276

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

Interviewer instructions

READ EACH OPTION ALOUD

hb10d - To decrease the cost of production or offering the service (hb10d)

File: sudan2014_innovation_data

Overview

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

Valid cases: 136
Invalid: 276

Literal question

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

Interviewer instructions

READ EACH OPTION ALOUD

hb10e - To offer products or service already offered by competitors (hb10e)

File: sudan2014_innovation_data

Overview

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

Valid cases: 136
Invalid: 276

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

Interviewer instructions

READ EACH OPTION ALOUD

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

File: sudan2014_innovation_data

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

File: sudan2014_innovation_data

Overview

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

Valid cases: 136
Invalid: 276

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)

Interviewer instructions

READ EACH OPTION ALOUD

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

File: sudan2014_innovation_data

Overview

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

Valid cases: 136
Invalid: 276

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

Interviewer instructions

READ EACH OPTION ALOUD

hb11a - New to the local market (hb11a)

File: sudan2014_innovation_data

Overview

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

Valid cases: 136
Invalid: 276

Literal question

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

Interviewer instructions

READ OUT

hb11b - New to the national market (hb11b)

File: sudan2014_innovation_data

Overview

hb11b - New to the national market (hb11b)

File: sudan2014_innovation_data

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

Valid cases: 136
Invalid: 276

Literal question

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

Interviewer instructions

READ OUT

hb11c - New to the international market (hb11c)

File: sudan2014_innovation_data

Overview

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

Valid cases: 136
Invalid: 276

Literal question

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

Interviewer instructions

READ OUT

hb12 - How did this establishment develop the idea for this main innovative prod (hb12)

File: sudan2014_innovation_data

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-4

Valid cases: 136
Invalid: 276

Literal question

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

hb13 - Who developed the main new or significantly improved product or service? (hb13)

File: sudan2014_innovation_data

Overview

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

Valid cases: 136
Invalid: 276

hb13 - Who developed the main new or significantly improved product or service? (hb13)

File: sudan2014_innovation_data

Literal question

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

hb19a - Abandoned or suspended before completion (hb19a)

File: sudan2014_innovation_data

Overview

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

Valid cases: 412
Invalid: 0

Literal question

From financial year [insert FY] thru [insert FY-2], did this establishment attempt to develop an innovative product or service that was
Abandoned or suspended before completion

Interviewer instructions

READ EACH OPTION ALOUD

hb19b - Still ongoing at the end of fiscal year 2013 (hb19b)

File: sudan2014_innovation_data

Overview

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

Valid cases: 412
Invalid: 0

Literal question

From financial year [insert FY] thru [insert FY-2], did this establishment attempt to develop an innovative product or service that was
Still ongoing at the end of financial year

Interviewer instructions

READ EACH OPTION ALOUD

hc1 - From fiscal year 2011 thru 2013, did this establishment introduce any inno (hc1)

File: sudan2014_innovation_data

Overview

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

Valid cases: 412
Invalid: 0

Pre question

I would now like to ask you some questions related to any new or significantly improved process introduced by this establishment.

hc1 - From fiscal year 2011 thru 2013, did this establishment introduce any inno (hc1)

File: sudan2014_innovation_data

Literal question

From financial year [insert FY] thru [insert FY-2], did this establishment introduce any new or significantly improved methods of manufacturing products or offering services?

hc2 - From fiscal year 2011 thru 2013, did this establishment introduce any inno (hc2)

File: sudan2014_innovation_data

Overview

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

Valid cases: 412
Invalid: 0

Literal question

From financial year [insert FY] thru [insert FY-2], did this establishment introduce any new or significantly improved logistics, delivery, or distribution methods for inputs, products, or services?

hc3 - From fiscal year 2011 thru 2013, did this establishment introduce any inno (hc3)

File: sudan2014_innovation_data

Overview

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

Valid cases: 412
Invalid: 0

Literal question

From financial year [insert FY] thru [insert FY-2], did this establishment introduce any new or significantly improved supporting activity for processes, such as maintenance systems or operations for purchasing, accounting, or computing?

hc4 - INTERVIEWER, PLEASE MARK THE FOLLOWING BASED ON THE ABOVE 3 QUESTIONS (hc4)

File: sudan2014_innovation_data

Overview

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

Valid cases: 412
Invalid: 0

Interviewer instructions

INTERVIEWER, PLEASE MARK THE FOLLOWING BASED ON THE ABOVE 3 QUESTIONS

hc5x - Please describe in detail this establishment's main innovative process (hc5x)

File: sudan2014_innovation_data

Overview

Type: Discrete
Format: character
Width: 123

Valid cases: 122

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

hc5a - Is the main new or significantly improved process? (hc5a)

File: sudan2014_innovation_data

Overview

Type: Discrete
Format: numeric
Width: 2
Decimals: 0
Range: -9-6

Valid cases: 122
Invalid: 290

Literal question

Is this main new or significantly improved process?

hc6 - Year the most important innovative process was introduced (hc6)

File: sudan2014_innovation_data

Overview

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

Valid cases: 122
Invalid: 290
Minimum: -9

Literal question

In which year did this establishment introduce this most important new or significantly improved process?

hc8 - Does the most important new or significantly improved process automate manual processes (hc8)

File: sudan2014_innovation_data

Overview

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

Valid cases: 122
Invalid: 290

Literal question

Does the most important new or significantly improved process automate manual processes, partially or fully?

hc9 - Is the most important innovative process associated with an innovative pro (hc9)

File: sudan2014_innovation_data

Overview

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

Valid cases: 122
Invalid: 290

Literal question

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

hc10i - To introduce or support a new or significantly improved product or servi (hc10i)

File: sudan2014_innovation_data

Overview

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

Valid cases: 122
Invalid: 290

Literal question

Do any of the following describe why this establishment introduced the most important new or significantly improved process?

To introduce or support a new or significantly improved product or service

Interviewer instructions

READ EACH OPTION ALOUD

hc10a - To increase the quality of products or services (hc10a)

File: sudan2014_innovation_data

Overview

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

Valid cases: 122
Invalid: 290

Literal question

Do any of the following describe why this establishment introduced the most important new or significantly improved process?

To increase the quality of products or services

Interviewer instructions

READ EACH OPTION ALOUD

hc10c - To increase the flexibility of production or offering service (hc10c)

File: sudan2014_innovation_data

Overview

hc10c - To increase the flexibility of production or offering service (hc10c)

File: sudan2014_innovation_data

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

Valid cases: 122
Invalid: 290

Literal question

Do any of the following describe why this establishment introduced the most important new or significantly improved process?

To increase the flexibility of production or offering service

Interviewer instructions

READ EACH OPTION ALOUD

hc10d - To increase the speed of production or offering service (hc10d)

File: sudan2014_innovation_data

Overview

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

Valid cases: 122
Invalid: 290

Literal question

Do any of the following describe why this establishment introduced the most important new or significantly improved process?

To increase the speed of production or offering service

Interviewer instructions

READ EACH OPTION ALOUD

hc10e - To increase the speed of delivery to the customer (hc10e)

File: sudan2014_innovation_data

Overview

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

Valid cases: 122
Invalid: 290

Literal question

Do any of the following describe why this establishment introduced the most important new or significantly improved process?

To increase the speed of delivery to the customer

Interviewer instructions

READ EACH OPTION ALOUD

hc10f - To decrease the cost of production or offering service (hc10f)

File: sudan2014_innovation_data

Overview

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

Valid cases: 122
Invalid: 290

Literal question

Do any of the following describe why this establishment introduced the most important new or significantly improved process?

To decrease the cost of production or offering service

Interviewer instructions

READ EACH OPTION ALOUD

hc10g - To reduce waste or errors (defect rate or rejection rate) (hc10g)

File: sudan2014_innovation_data

Overview

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

Valid cases: 122
Invalid: 290

Literal question

Do any of the following describe why this establishment introduced the most important new or significantly improved process?

To reduce waste or errors (defect rate or rejection rate)

Interviewer instructions

READ EACH OPTION ALOUD

hc10h - To comply with regulations or standards (hc10h)

File: sudan2014_innovation_data

Overview

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

Valid cases: 122
Invalid: 290

Literal question

Do any of the following describe why this establishment introduced the most important new or significantly improved process?

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

Interviewer instructions

READ EACH OPTION ALOUD

hc11a - New to the local market (hc11a)

File: sudan2014_innovation_data

Overview

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

Valid cases: 122
Invalid: 290

Literal question

When the most important new or significantly improved process was introduced in this establishment, was it
New to the local market

hc11b - New to the national market (hc11b)

File: sudan2014_innovation_data

Overview

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

Valid cases: 122
Invalid: 290

Literal question

When the most important new or significantly improved process was introduced in this establishment, was it
New to the national market

hc11c - New to the international market (hc11c)

File: sudan2014_innovation_data

Overview

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

Valid cases: 122
Invalid: 290

Literal question

When the most important new or significantly improved process was introduced in this establishment, was it
New to the international market

hc12 - How did this establishment develop the idea for this most important innov (hc12)

File: sudan2014_innovation_data

Overview

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

Valid cases: 122
Invalid: 290

Literal question

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

hc13 - Who developed the main new or significantly improved process? (hc13)

File: sudan2014_innovation_data

Overview

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

Valid cases: 122
Invalid: 290

Literal question

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

hd1a - Number of employees reporting directly to Top Manager in fiscal year 2013 (hd1a)

File: sudan2014_innovation_data

Overview

Type: Continuous
Format: numeric
Width: 2
Decimals: 0
Range: -9-40

Valid cases: 186
Invalid: 226
Minimum: -9
Maximum: 40

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 financial years [insert FY] and [insert FY-2].

Literal question

In financial year [insert FY], 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)).

hd1b - Number of employees reporting directly to Top Manager in fiscal year 2011 (hd1b)

File: sudan2014_innovation_data

Overview

Type: Continuous
Format: numeric
Width: 2
Decimals: 0
Range: -9-30

Valid cases: 214
Invalid: 198
Minimum: -9
Maximum: 30

Literal question

In financial year [insert FY-2], how many employees reported directly to the Top Manager of this establishment?

hd2a - Number of layers of direct reporting in fiscal year 2013 (hd2a)

File: sudan2014_innovation_data

Overview

hd2a - Number of layers of direct reporting in fiscal year 2013 (hd2a)

File: sudan2014_innovation_data

Type: Continuous
Format: numeric
Width: 2
Decimals: 0
Range: -9-36

Valid cases: 214
Invalid: 198
Minimum: -9
Maximum: 36

Literal question

In financial year [insert FY], how many layers of direct reporting were there in this establishment from the Top Manager down to the lowest-level of employee?

hd2b - Number of layers of direct reporting in fiscal year 2011 (hd2b)

File: sudan2014_innovation_data

Overview

Type: Continuous
Format: numeric
Width: 2
Decimals: 0
Range: -9-40

Valid cases: 214
Invalid: 198
Minimum: -9
Maximum: 40

Literal question

In financial year [insert FY-2], how many layers of direct reporting were there in this establishment from the Top Manager down to the lowest-level of employee?

hd3a - Create a new unit or department (hd3a)

File: sudan2014_innovation_data

Overview

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

Valid cases: 214
Invalid: 198

Literal question

From financial year [insert FY] thru [insert FY-2], did the establishment make any changes in its organizational structure in any of the following ways:
Create a new unit or department

Interviewer instructions

READ EACH OPTION ALOUD

hd3b - Dissolve any units or department (hd3b)

File: sudan2014_innovation_data

Overview

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

Valid cases: 214
Invalid: 198

Literal question

hd3b - Dissolve any units or department (hd3b)

File: sudan2014_innovation_data

From financial year [insert FY] thru [insert FY-2], did the establishment make any changes in its organizational structure in any of the following ways:

Dissolve any units or department

Interviewer instructions

READ EACH OPTION ALOUD

hd3c - Merge any units or department (hd3c)

File: sudan2014_innovation_data

Overview

Type: Discrete

Valid cases: 214

Format: numeric

Invalid: 198

Width: 2

Decimals: 0

Range: -9-2

Literal question

From financial year [insert FY] thru [insert FY-2], did the establishment make any changes in its organizational structure in any of the following ways:

Merge any units or department

Interviewer instructions

READ EACH OPTION ALOUD

hd7 - From fiscal year 2011 thru 2013, did this establishment contract other fir (hd7)

File: sudan2014_innovation_data

Overview

Type: Discrete

Valid cases: 214

Format: numeric

Invalid: 198

Width: 2

Decimals: 0

Range: -9-2

Literal question

From financial year [insert FY] thru [insert FY-2], did this establishment contract other firms to perform any activities previously done in-house (outsourcing)?

hd8 - From fiscal year 2011 thru 2013, did this establishment start doing in-hou (hd8)

File: sudan2014_innovation_data

Overview

Type: Discrete

Valid cases: 214

Format: numeric

Invalid: 198

Width: 2

Decimals: 0

Range: -9-2

Literal question

From financial year [insert FY] thru [insert FY-2], did this establishment start doing in-house any activities previously contracted to other firms (insourcing)?

hd4 - From fiscal year 2011 thru 2013, did this establishment introduce any chan (hd4)

File: sudan2014_innovation_data

Overview

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

Valid cases: 214
Invalid: 198

Literal question

From financial year [insert FY] thru [insert FY-2], did this establishment introduce any change in the method of hiring employees, excluding managerial and supervisory staff?

hd5 - From fiscal year 2011 thru 2013, did this establishment introduce any chan (hd5)

File: sudan2014_innovation_data

Overview

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

Valid cases: 214
Invalid: 198

Literal question

From financial year [insert FY] thru [insert FY-2], did this establishment introduce any change in the method of hiring managerial and supervisory staff?

hd6a - Suppliers or customers (hd6a)

File: sudan2014_innovation_data

Overview

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

Valid cases: 214
Invalid: 198

Literal question

From financial year [insert FY] thru [insert FY-2], did the manager(s) at this establishment adopt management practices from Suppliers or customers

Interviewer instructions

READ EACH OPTION ALOUD

hd6b - Trade associations or workshops (hd6b)

File: sudan2014_innovation_data

Overview

hd6b - Trade associations or workshops (hd6b)

File: sudan2014_innovation_data

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

Valid cases: 214
Invalid: 198

Literal question

From financial year [insert FY] thru [insert FY-2], did the manager(s) at this establishment adopt management practices from

Trade associations or workshops

Interviewer instructions

READ EACH OPTION ALOUD

hd6c - New employees (hd6c)

File: sudan2014_innovation_data

Overview

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

Valid cases: 214
Invalid: 198

Literal question

From financial year [insert FY] thru [insert FY-2], did the manager(s) at this establishment adopt management practices from

New employees

Interviewer instructions

READ EACH OPTION ALOUD

hd6d - Competitors (hd6d)

File: sudan2014_innovation_data

Overview

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

Valid cases: 214
Invalid: 198

Literal question

From financial year [insert FY] thru [insert FY-2], did the manager(s) at this establishment adopt management practices from

Competitors

Interviewer instructions

READ EACH OPTION ALOUD

hd6e - Consultants (hd6e)

File: sudan2014_innovation_data

Overview

hd6e - Consultants (hd6e)

File: sudan2014_innovation_data

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

Valid cases: 214
 Invalid: 198

Literal question

From financial year [insert FY] thru [insert FY-2], did the manager(s) at this establishment adopt management practices from

Consultants

Interviewer instructions

READ EACH OPTION ALOUD

hd9a - In fiscal year 2013 what best describes what happened at this establishme (hd9a)

File: sudan2014_innovation_data

Overview

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

Valid cases: 214
 Invalid: 198

Pre question

The next questions are about changes in management practices

Literal question

In financial year [insert FY] 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?

hd9b - In fiscal year 2011 what best describes what happened at this establishme (hd9b)

File: sudan2014_innovation_data

Overview

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

Valid cases: 214
 Invalid: 198

Literal question

In financial year [insert FY] 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?

hd10a - In fiscal year 2013, were key performance indicators monitored at this e (hd10a)

File: sudan2014_innovation_data

Overview

hd10a - In fiscal year 2013, were key performance indicators monitored at this e (hd10a)

File: sudan2014_innovation_data

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

Valid cases: 214
Invalid: 198

Literal question

In financial year [insert FY], 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.

hd10c - In fiscal year 2013, how frequently were the key performance indicators (hd10c)

File: sudan2014_innovation_data

Overview

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

Valid cases: 73
Invalid: 339

Literal question

In financial year [insert FY], how frequently were the key performance indicators reviewed by managers at this establishment?

hd11a - In fiscal year 2011, were key performance indicators monitored at this e (hd11a)

File: sudan2014_innovation_data

Overview

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

Valid cases: 214
Invalid: 198

Literal question

In financial year [insert FY], were key performance indicators monitored at this establishment?

hd11c - In fiscal year 2011, how frequently were the key performance indicators (hd11c)

File: sudan2014_innovation_data

Overview

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

Valid cases: 73
Invalid: 339

Literal question

hd11c - In fiscal year 2011, how frequently were the key performance indicators (hd11c)

File: sudan2014_innovation_data

In financial year [insert FY], how frequently were the key performance indicators reviewed by managers at this establishment?

hd12a - In fiscal year 2013, what best describes the time frame of production/sa (hd12a)

File: sudan2014_innovation_data

Overview

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

Valid cases: 214
Invalid: 198

Literal question

In financial year [insert FY], what best describes the time frame of production/sales targets at this establishment?
(Production targets may include desired amounts of production, quality, efficiency, waste reduction, and on-time delivery).

hd13a - In fiscal year 2011, what best describes the time frame of production/sa (hd13a)

File: sudan2014_innovation_data

Overview

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

Valid cases: 214
Invalid: 198

Literal question

In financial year [insert FY], what best describes the time frame of production/sales targets at this establishment?

he1a - Packaging, branding, logo, name, trademark or product appearance (he1a)

File: sudan2014_innovation_data

Overview

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

Valid cases: 412
Invalid: 0

Pre question

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

Literal question

From financial year [insert FY] thru [insert FY-2], did this establishment introduce or significantly change any of the following?

he1b - Advertising methods, promotions, sales channels or sales points (he1b)

File: sudan2014_innovation_data

Overview

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

Valid cases: 412
Invalid: 0

Literal question

From financial year [insert FY] thru [insert FY-2], did this establishment introduce or significantly change advertising methods, promotions, sales channels or sales points?

he1c - Pricing strategies, discount scheme, payment scheme, or customer loyalty (he1c)

File: sudan2014_innovation_data

Overview

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

Valid cases: 412
Invalid: 0

Literal question

From financial year [insert FY] thru [insert FY], did this establishment introduce or significantly change pricing strategy, discount scheme, payment scheme, or customer loyalty programs.

hf1a - From fiscal year 2011 thru 2013 did this establishment conduct internal R (hf1a)

File: sudan2014_innovation_data

Overview

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

Valid cases: 412
Invalid: 0

Pre question

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

Literal question

From [insert FY] thru [insert FY-2] 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 - How much did this establishment spend in total from fiscal year 2011 thru (hf1b)

File: sudan2014_innovation_data

Overview

hf1b - How much did this establishment spend in total from fiscal year 2011 thru (hf1b)

File: sudan2014_innovation_data

Type: Continuous
Format: numeric
Width: 6
Decimals: 0
Range: -9-200000

Valid cases: 42
Invalid: 370
Minimum: -9
Maximum: 200000

Literal question

How much did this establishment spend in total from fiscal year [insert FY] thru [insert FY-2] on internal R&D?

hf2a - From fiscal year 2011 thru 2013 did this establishment conduct external R (hf2a)

File: sudan2014_innovation_data

Overview

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

Valid cases: 412
Invalid: 0

Literal question

From [insert FY] thru [insert FY-2] 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 - How much did this establishment spend in total from fiscal year 2011 thru (hf2b)

File: sudan2014_innovation_data

Overview

Type: Continuous
Format: numeric
Width: 6
Decimals: 0
Range: -9-100000

Valid cases: 25
Invalid: 387
Minimum: -9
Maximum: 100000

Literal question

How much did this establishment spend in total from [insert FY] thru [insert FY-2] on external R&D?

hf3a - From fiscal year 2011 thru 2013 did this establishment provide formal tra (hf3a)

File: sudan2014_innovation_data

Overview

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

Valid cases: 412
Invalid: 0

Literal question

hf3a - From fiscal year 2011 thru 2013 did this establishment provide formal tra (hf3a)

File: sudan2014_innovation_data

From [insert FY] thru [insert FY-2] 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 - How much did this establishment spend in total from fiscal year 2011 thru (hf3b)

File: sudan2014_innovation_data

Overview

Type: Continuous	Valid cases: 34
Format: numeric	Invalid: 378
Width: 6	Minimum: -9
Decimals: 0	Maximum: 151000
Range: -9-151000	

Literal question

How much did this establishment spend in total from [insert FY] thru [insert FY-2] on that formal training?

hf4a - From fiscal year 2011 thru 2013 did this establishment purchase new equip (hf4a)

File: sudan2014_innovation_data

Overview

Type: Discrete	Valid cases: 412
Format: numeric	Invalid: 0
Width: 2	
Decimals: 0	
Range: -9-2	

Literal question

From [insert FY] thru [insert FY-2] did this establishment purchase new equipment, machinery, or software to develop or produce any innovative products or services and processes?

hf4b - How much did this establishment spend in total from fiscal year 2011 thru (hf4b)

File: sudan2014_innovation_data

Overview

Type: Continuous	Valid cases: 23
Format: numeric	Invalid: 389
Width: 7	Minimum: -9
Decimals: 0	Maximum: 2000000
Range: -9-2000000	

Literal question

How much did this establishment spend in total from [insert FY] thru [insert FY-2] on the purchase of that new equipment, machinery, or software?

hf5a - From fiscal year 2011 thru 2013 did this establishment purchase or licens (hf5a)

File: sudan2014_innovation_data

Overview

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

Valid cases: 412
Invalid: 0

Literal question

From [insert FY] thru [insert FY-2] 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?

hf8 - Between fiscal years 2011 and 2013, did this establishment receive any non (hf8)

File: sudan2014_innovation_data

Overview

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

Valid cases: 412
Invalid: 0

Literal question

Between fiscal years [insert FY] and [insert FY-2], 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)

hf8b - Between fiscal years 2011 and 2013, did this establishment spend any mone (hf8b)

File: sudan2014_innovation_data

Overview

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

Valid cases: 412
Invalid: 0

Literal question

Between financial years [insert FY] and [insert FY-2], did this establishment spend any money on innovation activities?

hf7a - Own funds (hf7a)

File: sudan2014_innovation_data

Overview

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

Valid cases: 39
Invalid: 373

Literal question

hf7a - Own funds (hf7a)

File: sudan2014_innovation_data

From financial year [insert FY] thru [insert FY-2], did this establishment fund its innovation activities from any of the following sources:

Own funds

Interviewer instructions

READ EACH OPTION ALOUD

hf7b - Private or state-owned banks (hf7b)

File: sudan2014_innovation_data

Overview

Type: Discrete

Format: numeric

Width: 2

Decimals: 0

Range: -9-2

Valid cases: 39

Invalid: 373

Literal question

From financial year [insert FY] thru [insert FY-2], did this establishment fund its innovation activities from any of the following sources:

Private or state-owned banks

Interviewer instructions

READ EACH OPTION ALOUD

hf7c - Government agencies or departments (hf7c)

File: sudan2014_innovation_data

Overview

Type: Discrete

Format: numeric

Width: 2

Decimals: 0

Range: -9-2

Valid cases: 39

Invalid: 373

Literal question

From financial year [insert FY] thru [insert FY-2], did this establishment fund its innovation activities from any of the following sources:

Government agencies or departments

Interviewer instructions

READ EACH OPTION ALOUD

hf7d - NGOs or international organizations (hf7d)

File: sudan2014_innovation_data

Overview

Type: Discrete

Format: numeric

Width: 2

Decimals: 0

Range: -9-2

Valid cases: 39

Invalid: 373

Literal question

From financial year [insert FY] thru [insert FY-2], did this establishment fund its innovation activities from any of the following sources:

NGOs or international organizations

hf7d - NGOs or international organizations (hf7d)

File: sudan2014_innovation_data

Interviewer instructions

READ EACH OPTION ALOUD

hf7e - Other, moneylenders, friends, relatives, etc. (hf7e)

File: sudan2014_innovation_data

Overview

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

Valid cases: 39
 Invalid: 373

Literal question

From financial year [insert FY] thru [insert FY-2], did this establishment fund its innovation activities from any of the following sources:

Other, moneylenders, friends, relatives, etc.

Interviewer instructions

READ EACH OPTION ALOUD

hf6 - Thinking about innovation, which of the following is the most important so (hf6)

File: sudan2014_innovation_data

Overview

Type: Discrete
 Format: numeric
 Width: 2
 Decimals: 0
 Range: -9-12

Valid cases: 412
 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?

hf10a - Did this establishment cooperate with any of the following institutions (hf10a)

File: sudan2014_innovation_data

Overview

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

Valid cases: 412
 Invalid: 0

Literal question

Did this establishment cooperate with any of the following institutions for innovation related activities?
 Any domestic firms

Interviewer instructions

READ EACH OPTION ALOUD

hf10b - Any foreign firms or a foreign-owned patent firm (hf10b)

File: sudan2014_innovation_data

Overview

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

Valid cases: 412
 Invalid: 0

Literal question

Did this establishment cooperate with any of the following institutions for innovation related activities?
 Any foreign firms or a foreign-owned parent firm

Interviewer instructions

READ EACH OPTION ALOUD

hf10c - Domestic academic or research institutions (hf10c)

File: sudan2014_innovation_data

Overview

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

Valid cases: 412
 Invalid: 0

Literal question

Did this establishment cooperate with any of the following institutions for innovation related activities?
 Domestic academic or research institutions

Interviewer instructions

READ EACH OPTION ALOUD

hf10d - Foreign academic or research institutions (hf10d)

File: sudan2014_innovation_data

Overview

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

Valid cases: 412
 Invalid: 0

Literal question

Did this establishment cooperate with any of the following institutions for innovation related activities?
 Foreign academic or research institutions

Interviewer instructions

READ EACH OPTION ALOUD

hf10e - Provare consulting company or individuals (hf10e)

File: sudan2014_innovation_data

Overview

hf10e - Provare consulting company or individuals (hf10e)

File: sudan2014_innovation_data

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

Valid cases: 412
 Invalid: 0

Literal question

Did this establishment cooperate with any of the following institutions for innovation related activities?
 Private consulting company or individuals

Interviewer instructions

READ EACH OPTION ALOUD

hf10f - Government (hf10f)

File: sudan2014_innovation_data

Overview

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

Valid cases: 412
 Invalid: 0

Literal question

Did this establishment cooperate with any of the following institutions for innovation related activities?
 Government

Interviewer instructions

READ EACH OPTION ALOUD

hf9a - Apply for a patent concerning a product or process innovation (hf9a)

File: sudan2014_innovation_data

Overview

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

Valid cases: 412
 Invalid: 0

Literal question

From fiscal year [insert FY] thru [insert FY-2], did this establishment:
 Apply for a patent concerning a product or process innovation

Interviewer instructions

READ EACH OPTION ALOUD

hf9c - Apply for a utility model (hf9c)

File: sudan2014_innovation_data

Overview

hf9c - Apply for a utility model (hf9c)

File: sudan2014_innovation_data

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

Valid cases: 412
 Invalid: 0

Literal question

From fiscal year [insert FY] thru [insert FY-2], did this establishment:
 Apply for a utility model

Interviewer instructions

READ EACH OPTION ALOUD

hf9d - Register an industrial design (hf9d)

File: sudan2014_innovation_data

Overview

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

Valid cases: 412
 Invalid: 0

Literal question

From fiscal year [insert FY] thru [insert FY-2], did this establishment:
 Register an industrial design

Interviewer instructions

READ EACH OPTION ALOUD

hf9e - Apply for a trademark (hf9e)

File: sudan2014_innovation_data

Overview

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

Valid cases: 412
 Invalid: 0

Literal question

From fiscal year [insert FY] thru [insert FY-2], did this establishment:
 Apply for a trademark

Interviewer instructions

READ EACH OPTION ALOUD

hf9f - Apply for a copyright (hf9f)

File: sudan2014_innovation_data

Overview

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

Valid cases: 412
 Invalid: 0

hf9f - Apply for a copyright (hf9f)

File: sudan2014_innovation_data

Literal question

From fiscal year [insert FY] thru [insert FY-2], did this establishment:

Apply for a copyright

Interviewer instructions

READ EACH OPTION ALOUD

hf9x - With what agency or authority did this establishment apply for or registe (hf9x)

File: sudan2014_innovation_data

Overview

Type: Discrete

Format: character

Width: 66

Valid cases: 52

Invalid: 0

Literal question

With which agencies or authoritiesdid this establishment apply for or register these items?

ha1 - Percentage of employees regularly using computers (ha1)

File: sudan2014_innovation_data

Overview

Type: Continuous

Format: numeric

Width: 3

Decimals: 0

Range: -9-100

Valid cases: 412

Invalid: 0

Minimum: -9

Maximum: 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?

ha2 - From fiscal year 2011 thru 2013, did this establishment purchase or develo (ha2)

File: sudan2014_innovation_data

Overview

Type: Discrete

Format: numeric

Width: 2

Decimals: 0

Range: -9-2

Valid cases: 96

Invalid: 316

Literal question

From fiscal year [insert FY] thru [insert FY-2], did this establishment purchase or develop in-house any software, which was customized to meet its needs?

ha3 - From fiscal year 2011 thru 2013, did this establishment have any employees (ha3)

File: sudan2014_innovation_data

Overview

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

Valid cases: 96
Invalid: 316

Literal question

From fiscal year [insert FY] thru [insert FY-2], did this establishment have any employees entirely designated for IT?

ha4 - From fiscal year 2011 thru 2013, did this establishment use the services o (ha4)

File: sudan2014_innovation_data

Overview

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

Valid cases: 96
Invalid: 316

Literal question

From fiscal year [insert FY] thru [insert FY-2], did this establishment use the services of an external IT consultant?

ha5 - From fiscal year 2011 thru 2013, what was the total cost of these external (ha5)

File: sudan2014_innovation_data

Overview

Type: Continuous
Format: numeric
Width: 5
Decimals: 0
Range: -9-10000

Valid cases: 25
Invalid: 387
Minimum: -9

Literal question

From [insert FY] thru [insert FY-2], what was the total cost of these external computer consultant or software consultant?

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

File: sudan2014_innovation_data

Overview

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

Valid cases: 412
Invalid: 0

Literal question

Currently, does this establishment have an internet connection?

ha7 - Year the establishment first obtain an internet connection (ha7)

File: sudan2014_innovation_data

Overview

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

Valid cases: 123
Invalid: 289

Literal question

When did this establishment first obtain an internet connection?

ha8a - E-mail with clients and suppliers (ha8a)

File: sudan2014_innovation_data

Overview

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

Valid cases: 123
Invalid: 289

Literal question

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

Interviewer instructions

READ EACH OPTION ALOUD

ha8b - Internal communication amongst employees (ha8b)

File: sudan2014_innovation_data

Overview

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

Valid cases: 123
Invalid: 289

Literal question

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

Interviewer instructions

READ EACH OPTION ALOUD

ha8c - Online purchases of inputs or finished goods purchased to resell (ha8c)

File: sudan2014_innovation_data

Overview

ha8c - Online purchases of inputs or finished goods purchased to resell (ha8c)

File: sudan2014_innovation_data

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

Valid cases: 123
Invalid: 289

Literal question

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

Interviewer instructions

READ EACH OPTION ALOUD

ha8d - Online sales and order fulfillment (ha8d)

File: sudan2014_innovation_data

Overview

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

Valid cases: 123
Invalid: 289

Literal question

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

Interviewer instructions

READ EACH OPTION ALOUD

ha8e - Manage the inventory (ha8e)

File: sudan2014_innovation_data

Overview

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

Valid cases: 123
Invalid: 289

Literal question

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

Interviewer instructions

READ EACH OPTION ALOUD

ha8f - Marketing of products (ha8f)

File: sudan2014_innovation_data

Overview

ha8f - Marketing of products (ha8f)

File: sudan2014_innovation_data

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

Valid cases: 123
Invalid: 289

Literal question

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

Interviewer instructions

READ EACH OPTION ALOUD

ha8g - Do research and develop ideas on new products and services (ha8g)

File: sudan2014_innovation_data

Overview

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

Valid cases: 123
Invalid: 289

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

Interviewer instructions

READ EACH OPTION ALOUD

ha15d - Time face-to-face interview ends:Day (ha15d)

File: sudan2014_innovation_data

Overview

Type: Discrete
Format: numeric
Width: 2
Decimals: 0
Range: 1-30

Valid cases: 412
Invalid: 0

ha15m - Time face-to-face interview ends:Month (ha15m)

File: sudan2014_innovation_data

Overview

Type: Discrete
Format: numeric
Width: 2
Decimals: 0
Range: 10-12

Valid cases: 412
Invalid: 0

ha15y - Time face-to-face interview ends:Year (ha15y)

File: sudan2014_innovation_data

Overview

Type: Discrete
 Format: numeric
 Width: 4
 Decimals: 0
 Range: 2014-2014

Valid cases: 412
 Invalid: 0

ha15h - Time face-to-face interview ends:Hour (ha15h)

File: sudan2014_innovation_data

Overview

Type: Discrete
 Format: numeric
 Width: 2
 Decimals: 0
 Range: 1-17

Valid cases: 412
 Invalid: 0

ha15min - Time face-to-face interview ends:Minutes (ha15min)

File: sudan2014_innovation_data

Overview

Type: Discrete
 Format: numeric
 Width: 2
 Decimals: 0
 Range: 0-59

Valid cases: 412
 Invalid: 0

Ha21x - main respondent's position in the firm (ha21x)

File: sudan2014_innovation_data

Overview

Type: Discrete
 Format: character
 Width: 46

Valid cases: 412
 Invalid: 0

Ha21a - main respondent's years with the firm (ha21a)

File: sudan2014_innovation_data

Overview

Type: Continuous
 Format: numeric
 Width: 2
 Decimals: 0
 Range: -9-50

Valid cases: 412
 Invalid: 0
 Minimum: -9

Ha21c - main respondent's gender (ha21c)

File: sudan2014_innovation_data

Ha21c - main respondent's gender (ha21c)

File: sudan2014_innovation_data

Overview

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

Valid cases: 412
 Invalid: 0

Ha22x - second respondent's position in the firm (ha22x)

File: sudan2014_innovation_data

Overview

Type: Discrete
 Format: character
 Width: 10

Valid cases: 1
 Invalid: 0

Ha22a - second respondent's years with the firm (ha22a)

File: sudan2014_innovation_data

Overview

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

Valid cases: 1
 Invalid: 411

Ha22c - second respondent's gender (ha22c)

File: sudan2014_innovation_data

Overview

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

Valid cases: 1
 Invalid: 411

Ha23x - Third respondent's position in the firm (ha23x)

File: sudan2014_innovation_data

Overview

Type: Discrete
 Format: character
 Width: 1

Valid cases: 0
 Invalid: 0

Ha23a - Third respondent's years with the firm (ha23a)

File: sudan2014_innovation_data

Overview

Ha23a - Third respondent's years with the firm (ha23a)

File: sudan2014_innovation_data

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0

Valid cases: 0
 Invalid: 412

Ha23c - Third respondent's gender (ha23c)

File: sudan2014_innovation_data

Overview

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

Valid cases: 0
 Invalid: 412

(wstrict_innov)

File: sudan2014_innovation_data

Overview

Type: Continuous
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-8

Valid cases: 412
 Invalid: 0
 Minimum: 1

(wmedian_innov)

File: sudan2014_innovation_data

Overview

Type: Continuous
 Format: numeric
 Width: 16
 Decimals: 0
 Range: 1-13.4162120819092

Valid cases: 412
 Invalid: 0
 Minimum: 1

(wweak_innov)

File: sudan2014_innovation_data

Overview

Type: Continuous
 Format: numeric
 Width: 16
 Decimals: 0
 Range: 2.79065656661987-49.217903137207

Valid cases: 412
 Invalid: 0
 Minimum: 2.8

Related Materials

Questionnaires

Innovation Follow-up Survey Questionnaire

Title Innovation Follow-up Survey Questionnaire
Language English
Filename Innovation Module_Man_and Services_Sudan_2014.pdf

Technical documents

Sudan Innovation Follow-up Survey Note

Title Sudan Innovation Follow-up Survey Note
Language English
Filename sudan_innovation_follow_up_survey_note_2014.pdf
