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STATA Interview Questions And Answers

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STATA Interview Questions And Answers

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If you're looking for STATA Interview Questions for Experienced or Freshers, you are at right place. There are a lot of opportunities from many reputed companies in the world. According to research, the average salary for STATA is approximately \$69,870 pa. So, You still have the opportunity to move ahead in your career in STATA. Mindmajix offers Advanced STATA Interview Questions 2019 that helps you in cracking your interview & acquire dream career as STATA Analyst.

Q1) What is the elementary use of STATA?

The integrated statistical software is fundamentally used as an integral part of research methodologies in the field of economics, biomedicine, and political science in order to examine data pattern.

Q2) What are the most advisable functions performed with the help of STATA?

The program is best suited for processing time? the series, panel, and cross? sectional data.

Q3) What makes the tool more intuitive?

The availability of both command line and graphical user interface makes the usage of the software more spontaneous.

Q4) What are the competencies of using STATA software?

The incorporation of data management, statistical regression, and custom programming and at the system to disseminate user-written programs the integral statistical tool.

Q5) List four major builds of STATA and s

STATA MP - Multiprocessor computer with multiple processors.

STATA SE - Majorly used for analyzing larger data sets.

STATA IC - The standard version of the software. Numerics by STATA support MP, SE AND IC data.

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Q6) State the various disciplines which use STATA as an integral software for efficient results?

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STATA software acts as an effective analytical and statistical tools for major sectors, they are as follows :

Behavioral sciences: Behavioral scientist entrust STATA for its accuracy, extensibility, reproducibility, and ease of use features. Whether it is an extensive research on cognitive development, studying personality traits or developing measurement instruments, The software accommodates all the required collateral to pursue a broad range of behavioral science questions.

Education: In the process of developing new tests or researching diverse topics as learning and development, teacher effectiveness, or school finance, STATA establishes the relevant and accurate statistical methodology options forward. The analysis is consistently integrated with illustrations (graphics) and data management into one package in order to seek a wide range of educational questions.

Medical: Medicinal researchers entrust to use STATA for its range of biostatistical methods and reproducibility approach towards the data. In the process of any medical research or while

performing a clinical trial, the program provides accurate tools which helps conduct the study from power and sample-size calculations to data management to analysis.

Biostatistics: Biostatisticians approve of STATA for its accuracy, extensibility, and reproducibility. Inconsiderate of the study's statistical approach or focus area or whether it is a cross-sectional, longitudinal, or time-to-event. STATA equips the users with all the necessary statistics, graphics, and data management tools needed to implement and study a wide range of biostatistical methods.

Economics: The researchers in the field of economics have always relied upon STATA for its accuracy and relevancy. Whether its a study on educational institution selection research process, Gross domestic price or stock trends, data management tools needed to complete the

Business / Finance - Marketing: financial and tool in the case of researching asset pricing management, consumer and firm behaviour, or extensibility of providing all the statistics, graphi

Sociology: Apart from the above-listed sec demographic and geographic research process

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Q7) What are the key features of STATA/ MP?

STATA/ MP is termed as the fastest and largest This version's multiprocessing abilities provide all kinds of statistics and data administration.

STATA/MP supports over 64 cores/processors data when compared to STATA/SE.

This version interprets 10 to 20 billion observ observations.

The program is 100% compatible with other analyses to obtain Stata/MP's speed improve

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Q8) List down few highlights of new STATA 15?

Extended regression modules which can address the problems such as Endogenous covariates, Nonrandom treatment assignment etc in any combination, unlike the previous Heckman and ivregress modules.

STATA'S Latin Class Analysis helps to identify unobserved categories in the latent classes.

STATA now supports Markdown - A standard markup language that allows text formatting from plain text input.

Program's Dynamic stochastic general equilibrium command estimates the parameters of DSGE models that are linear in the variables but potentially nonlinear in the parameters.

Bayes prefix, when combined with Bayesian features with STATA'S spontaneous and elegant specification of regression models, lets the users fit Bayesian regression models more conveniently and fit additional models.

Q9) What is the work function of STATA'S user interface?

Primarily, STATA by default opens in four different windows :

Results: This window displays all the commands and their results, with an exception being made for graphs which are showcased in their own window.

Review: Only the commands are made visible in this particular window. When clicked on any specific command by the user it appears on a separate window. The review tab has an option of " Save Review Contents " which allows the user to save all documented files in the review window to a file for later use. (This is not a substitute for log and do files.)

Command: This is the space used to type the commands while working in an interactive mechanism. All the content typed here will be reflected in both results and review windows. " Page Up " and " Page Down " keys are used in order to view previously executed commands.

Variables: Entire list of user 's variables and their labels are displayed here. When clicked it will be pasted in the command window.

Q10) What are the various data format compatible with STATA software?

STATA is compatible to import data from various formats, Inclusive of ASCII data formats (such as CSV or databank formats) and spreadsheet formats (including various Excel formats). It can as well read and write SAS XPORT format files using the fdread and fdwrite commands.

The STATA's dominion file formats are platform independent, meaning that they can be used from different operating systems comfortably except for the fact that there has been consistent change over the course of time. Even though the format has changed, still the users can read all older datasets and save them in the most recent previous dataset format, using the fdread and fdwrite commands.

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Q11) Elaborate on Do, Log and CmdLog files?

The User must always operate his work in a do-file, which ensures the output can be reproduced at a later time. One can start a do.file by simply clicking on the do.file editor button. The user has to also make sure to always turn on "Auto indent" and Auto save on do/run" options presented in the preferences tab.

Another cardinal rule while working on STATA is the always maintain a log file running. These files have a record of the work done and even showcases the results. This function can be activated by giving "log using mylog.log" command. The usage of ".log" extension automatically creates the log as a plain text file that can then be opened in Microsoft Word or notepad as well as Stata's viewer.

One can initiate command log with the command "cmdlog using mycmdlog.log". This ensures the file is saved in the text format. CmdLog has only the executed commands with no reflection of the output. Additionally, all the commands irrespective of where they are issued from are recorded in the command log.

Q12) Explain STATA salient features?

Time series: This feature of the software allows the users to handle all the statistical challenges constitutional to time-series data, for example, common factors, autoregressive conditional heteroskedasticity, unit roots, autocorrelations etc. The program operates various activities like filtering to fitting compound multiple variate models and graphing which reveals the structure into the time series.

Survival Analysis: With the help of specialized survival analytical tools provided by STATA, the user can analyze the duration of an outcome (e.g., survival over time irrespective of discrepancies in the study), hazard ratios, mean survival time, etc. the help of this model.

Extended regression Models: ERM is the framework that handles several complications that arise on a regular basis, such as 1) endogenous covariates, 2) sample selection and 3) other complications can either arise alone or with each other to make authentic inferences.

Structural Equation Modeling: SME performs a comprehensive evaluation of the relationship between unobservable and observable measures to measure the concerned latent concept.

ANOVA / MANOVA: These are known as Fit or Fixed Effects models, which are enclosed, fixed or random factors or with repeated measures. ANOVA faces continuous covariates, whereas MANOVA faces categorical variables. The relationship between the outcome and the independent effect sizes and computing least-squares and model fit.

Q13) List down standards methods and STATA program?

STATA provides over 100 various authentic statistical tools. Here are the few examples:

STANDARD METHODS	ADVANCED TECHNIQUES
Basic tabulations and summaries	Time-series smoothers
Multilevel models	Binary, count, and censored outcomes
Case-control analysis	Contrasts and comparisons
Dynamic panel-data (DPD) regressions	Multiple imputations
Power analysis	SEM (structural equation modeling)
ANOVA and MANOVA	Latent class analysis (LCA)

Q14) Explain Publication - Quality graphics feature?

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STATA makes it convenient for the users to visual representations. A user can either point numerous graphs in a reproducible manner. In converted into EPS or TIF for publication, to PNG additional feature of integrated graph editor, the

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Q15) List the different graph styles provided by STATA?

STATA is one of the recommended software to create graphical illustrations, the following are the types of graphs made available by STATA namely :

- Bar charts
- Box plots
- Histograms
- Spike plots
- Pie charts
- Scatterplot matrices
- Dot charts
- Line charts
- Area charts etc.

Q16) How does the reading and documentation function work in STATA?

In order to write a program to read data into STATA, Then the user has two possible choices. "Infile" and "infix" . When compared to infix, the infile command has more capabilities but at the same time has a higher level of complexity. If the user's codebook has "start" and "length" information for the variables or the variables are separated by spaces (not commas or tabs) then it advisable to use infile. On the other hand, if the

codebook contains “start” and “end” column information then, the user can go ahead with infix.

Q17) What are the advantages of using STATA program?

STATA is a fast, accurate and easy to use interface, with an additional feature of intuitive command syntax making it a powerful statistical data analytical tool.

STATA provides a wide range of statistical tabulations and summaries, Case-control analysis for example: Multilevel models, Dynamic panel Data administration feature of STATA allows you to then combine and reshape data sets, manage duplicates.

The software is capable to manage unique data etc.)

The program is cross-platform compatible which

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Q18) Explain the role of MATA programming

MATA is a full-fledged programming language that optimizes it, and executes it fast. Although it is a fast and complex matrix programming language, the language acts as both interactive environment and a developed environment that can produce code. Important features for the processing of panel data, complex matrices and offers outright support for object-oriented programming and is fully integrated with every form of STATA.

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Q19) Explain describe and codebook commands?

Once the data is loaded in STATA, User must document in order to know what are the variables and how they are coded. The describe and codebook commands furnish information about the user's data.

Describe command is the most basic form of a command. It projects a short description of the file and also lists variables and their required information in the datasets.

Codebook drafts a detailed description of each variable. By default, the codebook command will list variables that have nine or less discrete values and means for those which are more than nine.



By Ravindra Savaram

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