

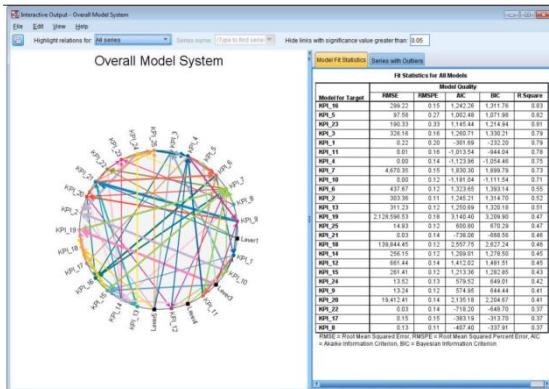
What's New in IBM SPSS Statistics (Added in ver 17 – 23)

New and enhanced features to accelerate, optimize and simplify data analysis

To ensure that the most advanced techniques are available to a broader group of analysts and business users, IBM SPSS have made enhancements to the features and capabilities of IBM SPSS Statistics and its many specialized modules.

Added in ver 23

- New time series technique, Temporal Causal Modeling (TCM) technique to discover causal relationship in large numbers of time series data

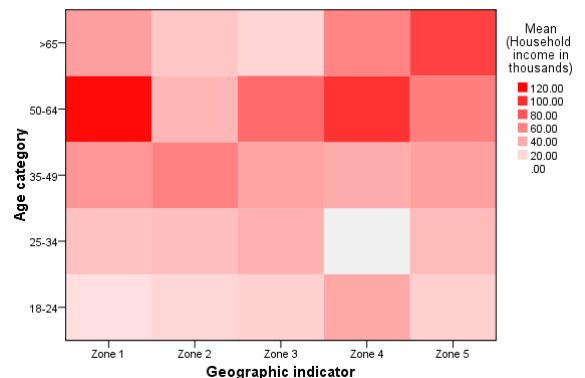


- Two new Geospatial analytics techniques to find relationship and trends hidden in geospatial (geographic) data:
 - * The Spatio-Temporal Prediction (STP) technique to analyze patterns related to time and space data
 - * The Generalized Spatial Association Rule (GSAR) to find associations between spatial and non-spatial attributes.
- New redesigned web reports offer more interactivity, functionality and web server support.
- Enhanced categorical principal component analysis (CATPCA) capabilities.
- Stata 13 users can import, read and write Stata 9-13 files within SPSS Statistics.
- Wider support for R programming options enables developers to use a full-featured, integrated R development environment within SPSS Statistics.

- Enhancement to speed up deployment and Return on Investment

Added in ver 22

- View interactive SPSS Statistics output on smart devices (smartphones and tablets)
- Enhanced Monte Carlo simulation to improve model accuracy
- Support for Automatic Linear Modeling (ALM)
- New visualization, Heat maps automatically generated when displaying scatterplots in which the target or the input, or both, are categorical

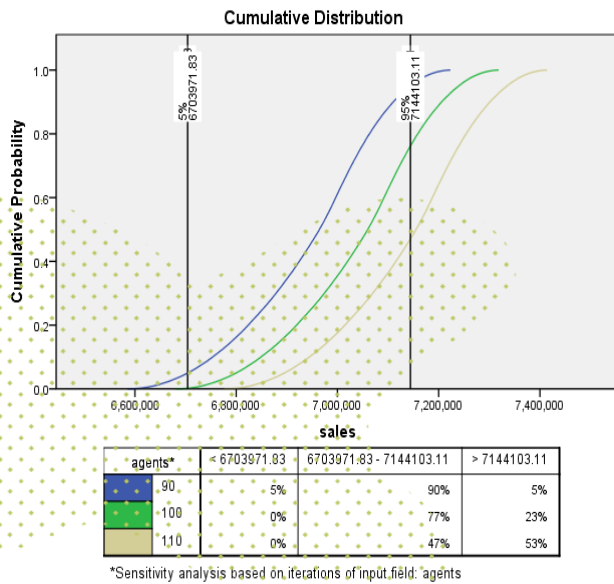


- Generate pivot table output for non-parametric procedures

Added in ver 21

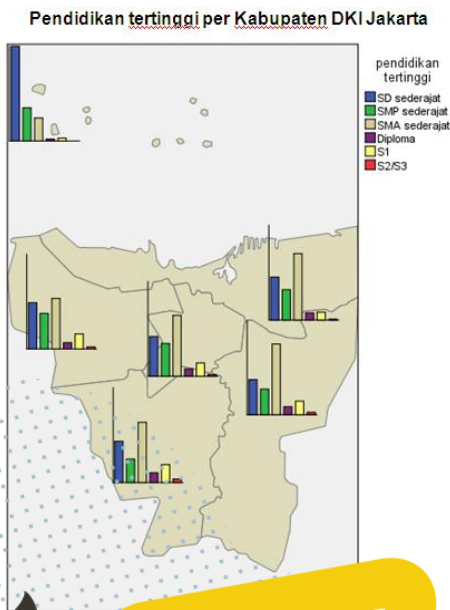
- Ability to import IBM Cognos Business Intelligence data into SPSS Statistics
- Password protection for data and output files in SPSS Statistics

- Two datasets or files can be compared in SPSS Statistics
- Improvements to pivot tables in SPSS Statistics
- New Monte Carlo simulation techniques for building better models and assessing risk in SPSS Statistics Base



Added in ver 20

- New Map visualization, including pre-built map templates and support for ESRI files in SPSS Statistics Base



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- Faster tables: Generate fully interactive and editable output tables up to five times faster

Added in ver 19

- Generalized linear mixed models (GLMM) in SPSS Advanced Statistics module
- Improvements to crosstabs
- Automatic linear models, with boosting (improved model accuracy) and bagging (improved stability)
- Updates to SPSS Direct Marketing, including smart output and improvements to control package testing
- New Interface for scoring, allowing customers to more easily score new data with pre-built models
- Import/Export Microsoft Excel 2010 data

Added in ver 18

- All modules can run independently - SPSS Statistics Base is no longer required
- Prepare data in a single step using automated data preparation feature
- New nonparametric tests in SPSS Statistics Base
- Ability to view significance tests in the main results table in SPSS Custom Tables
- New Interactive model viewer on two-step cluster analysis and automated data preparation procedures
- New product: SPSS Statistics Developer and new modules: SPSS Direct Marketing and SPSS Bootstrapping

Added in ver 17

- Mac OS X and Linux platforms can connect clients to SPSS Statistics Server
- Support for graphic packages written in R
- Create user defined dialog box for existing procedures and user-defined procedures with the new custom dialog builder
- Read access to SPSS Statistics data files as an ODBC/JDBC data source

For further information please visit our website at www.purpleanalytics.co.id or contact 021-7502313 or email info@purpleanalytics.co.id