

Teradata Certification

Exam Objectives

The Analytics Exam covers the features and functionality of Vantage 1.1 including the Advanced SQL Engine through release 16.20.

Data Management and Governance – 21%

- Given a graphic representation of data, identify a description of the distribution, skew, and outliers.
- Given a table from various univariate statistics functions in a normal distribution, identify assumptions about the population.
- Given a graphic or a set of numbers, identify data quality issues
- Given a description of a quality issue, identify the SQL statement that could be used to correct the problem.
- Given two views of a data set, one before and one after a data transformation function was applied, identify the function that was used.
- Given a data set that was transformed and the data transformation function that was used, identify the original data set.
- Given a data set and a SQL code snippet, identify the output.
- Identify the consequence of not normalizing or not scaling.
- Given a scenario including a task, identify the CASE WHEN statement that should be used to accomplish the task.
- Given a scenario including the need to connect to an external data source, identify the SQL code snippet that should be used.
- Given a data set, identify the higher performing SQL statement to create a table.
- Given the output from EXPLAIN, identify query performance issues.

Data Visualization and Presentation – 20%

- Given a connection, identify the appropriate configuration settings and/or SQL functions that leads to optimal performance.
- Match a graphic of a visualization type with its name.
- Given a graphic, identify the visualization issue.
- Given an analytic output, identify the visualization type that should be used to most effectively represent the meaning.

Statistical Techniques – 19%

- Given a histogram or scatter plot, identify the type of graph and the correlation.
- Given multiple result sets created from univariate statistics, identify the measures of standard deviation, spread, or dispersion.
- Given a p-value, identify the effects on the results of the hypothesis tests.
- Given the outcome of a model, the p-values, and coefficients, identify the statistical significance.
- Given a model and its coefficient outputs, identify the relationships between the independent variables and the dependent variable.

Data Analytics Methods and Algorithms – 23%

- Given a text mining task, identify the function that should be used to complete the task.
- Given a sentence before and after a function was applied, identify the function syntax that was used.
- Identify the available options the Sentiment extractor offers.
- Given a task, identify the syntax in Named Entity Recognition (NER) that should be used to accomplish the task.
- Given an npath statement, identify how the function will operate.
- Given an output, identify the npath statement that created the output.
- Identify how the TimeOut parameter affects the Sessionize function.
- Identify the purpose of a Time Series table.
- Given a data set and a result set, identify the SQL code snippet that performed the aggregation.
- Identify the behavior of windowing functions.
- Identify the characteristics of traditional and Time Series aggregations.
- Interpret the meaning of the LIFT metric that is output by the CFilter function.
- Interpret the meaning of the CFilter function result set.

Validation and Evaluation – 17%

- Given a ROC chart, interpret the results.
- Identify the characteristics of ROC, AUC, and GINI values.
- Match the definition of specificity, sensitivity, prevalence, and precision with their name.