

# Teradata Certification – [Analytics](#) Exam

---

## Exam Objectives

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

**This document now LINKS directly to the free web-based training course that supports each objective as well as to the full curriculum above.**

### 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.](#)