

Teradata Certification

Exam Objectives - Vantage Administration Exam

The Administration Exam covers the features and functionality of Vantage 2.2 including the Advanced SQL Engine through release 17.05. The complete Vantage Administration curriculum consists of 6 modules available [here](#). In addition, each objective below links to the module that provides training on the concept.

Monitoring Vantage - 12%

- [Given a scenario, identify the Viewpoint portlet that should be used to investigate or remediate a system condition.](#)
- [Identify how to use Viewpoint to monitor queries that access external data.](#)
- [Given a scenario, identify the process that should be used to set up and administer a Viewpoint system \(for example: user definition, roles definition, and alert infrastructure.\)](#)
- [Given a scenario, identify the process that should be used to set up and administer a monitored system \(for example: data collectors, alert setup, etc.\)](#)
- [Given a scenario, identify which system resource is constrained.](#)
- [Identify how to use Viewpoint to monitor data movement jobs.](#)

Performance Management - 23%

- [Given a scenario, identify the effective strategy to collect, implement, and manage statistics.](#)
- [Given a scenario, identify the DBQL logging options that should be implemented.](#) Learning [here](#) as well.
- [Given a scenario, identify which logging data is used to isolate the cause of a system, query, or workload performance issue.](#)
- [Given a scenario, identify the metrics that should be used to investigate a performance issue.](#)
- [Given a scenario, identify the process and tools to resolve a blocking condition.](#)
- [Identify lock usage and lock implications \(for example: access, write, read, exclusive, and load isolation.\)](#)
- [Given a scenario, identify how to remediate sub-optimal queries.](#)
- [Given a scenario, identify how to assign tables to hash maps for performance optimization.](#)
- [Given a scenario, identify the proper advanced indexing strategy to improve performance.](#)
- [Identify the performance implications of table and column design options.](#)
- [Given a performance troubleshooting scenario, identify the likely cause of the problem or how to identify it.](#)
- [Identify performance considerations for accessing external data.](#)

Security Management & Auditing - 9%

- [Identify features, functionality and benefits of access logging.](#)
- [Given a scenario, identify how to use system log tables for security auditing.](#)
- [Identify the features, functionality, and benefits of advanced security configurations.](#)
- [Identify the considerations of using database and object level privileges.](#)
- [Identify security configurations for accessing external data.](#)

User Administration - 9%

- [Given a scenario, identify how to meet user security requirements using roles.](#)
- [Given a scenario, identify how to meet proxy user data access requirements.](#)
- [Identify the features, functionality, and benefits of profiles.](#)
- [Given a scenario, identify the attributes that should be set for a new user.](#)

Database Management- 17%

- [Given a scenario, identify the access rights that should be granted to a database, user, or role.](#)
- [Identify access rights required to execute advanced analytic functions.](#)
- [Identify the benefits, types, and reasons for logging.](#)
 - [Given a scenario, identify types of privileges that would apply \(for example: explicit, implicit, automatic and inherited privileges.\)](#)
 - [Identify the effects on a user session of changing a global parameter \(for example: General, Statistics, Compression, File System, and tdlocaledef.\)](#)
- [Given a scenario, identify actions or recovery tasks needed after an unplanned system restart.](#)
- [Given a scenario, identify the optimal backup strategy for a database object or system.](#)
- [Given a scenario, identify the optimal restore strategy for a database object or system.](#)
- [Given a scenario about increased customer demand, identify how to determine future capacity requirements.](#)
- [Identify the features and implications of using advanced data types in Vantage table design \(for example: JSON, BSON, AVRO, BLOB, CLOB.\)](#)
- [Identify the methods and processes to manage and monitor perm space.](#)
- [Identify the methods and processes to manage and monitor temp space and spool space.](#)

Workload Management - 18%

- [Given a scenario, identify the TASM feature that should be applied.](#)
- [Given a scenario, identify how to use classification criteria for workload management.](#)
- [Given a scenario, identify how to use filters or throttles for workload management.](#)
- [Given a scenario, identify how to use exceptions for workload management.](#)
- [Given a scenario, identify how to manage utilities with workload management.](#)
- [Identify how to manage workloads accessing external data such as NOS and QueryGrid.](#)
- [Given a scenario, identify how to use the state matrix to create dynamic rules for a workload.](#)
- [Identify how to manage advanced analytics workload \(for example: R, Python, MLE\).](#)
- [Given a scenario, identify how to use workload management methods and prioritization.](#)

Integration - 12%

- [Identify the benefits, features, and functionality of QueryGrid.](#)
- [Given a scenario, identify the database object\(s\) that support the QueryGrid implementation.](#)
- [Identify the benefits, features, and functionality of NOS.](#)
- [Given a scenario, identify the performance implications when accessing NOS.](#)
- [Given a scenario, identify the performance implications when accessing a foreign server.](#)
- [Identify the benefits, features, and functionality of Data Mover including job scheduling and error handling.](#)
- [Given a scenario, identify the performance implications when using Data Mover.](#)