

Teradata Certified Professional Program

Advanced DBA Exam

Exam Objectives, Section Weightings, Recommended Courses

The Advanced DBA Exam covers the features and functionality of the Teradata Database through release 16.10. The exam objectives describe the content and focus covered on the exam.

Archive Management – 8%

- Given a scenario, identify the optimal archive strategy (Backup and Recovery (BAR)) for a database object or system.
- Given a scenario, identify the optimal restore strategy for a database object or system under failure conditions or unique restoration requirements.
- Given a scenario, identify appropriate use of DSA. (This includes DSE and DSU)

Recommended Courses:

- **WBT 53054 Teradata Data Stream Architecture (DSA)**
- **ILT 25970 Teradata Warehouse Administration**

Capacity Planning – 10%

- Given a scenario of increased customer demand, identify major system resource trends and future capacity needs.
- Given a scenario, analyze system CPU and system I/O data for capacity planning purposes.
- Given a scenario, analyze AWT usage data for capacity planning purposes.
- Given a scenario, analyze session data for capacity planning purposes.

Recommended Courses:

- **ILT 25971 Teradata Warehouse Management**

Database Design and Indexing – 12%

- Given a scenario, identify the optimal implementation of row and/or column partitioning.
- Given a scenario, identify optimal ANSI temporal implementation.
- Given a scenario, identify the proper advanced indexing strategy for a table.
- Given a scenario, identify the optimal compression strategy (for example: MVC, ALC, BLC, columnar compression, temperature-based compression, and fallback only copy).
- Identify the technique used for a given layer (for example: modeling techniques per layered framework (acquisition, integration, access)).
- Identify the features and implications of using advanced data types and enhanced table design options (for example: JSON and BSON).

Recommended Courses:

- [ILT 25969 Teradata Physical Database Tuning](#)
- [WBT 56792 Introduction to ANSI Temporal Tables](#)

Database Tools and Utilities – 7%

- Given a scenario, identify the process that should be used to setup and administer a Viewpoint system (for example: LDAP configuration, Viewpoint (cache) database backup, user definition, roles definition, and alert infrastructure).
- Given a scenario, identify the process that should be used to setup and administer a monitored system (for example: system definition, data collectors, alert setup, and remote console).

Recommended Courses:

- [ILT 49663 Teradata Viewpoint](#)

Performance Management – 13%

- Given a scenario, identify the optimal statistics to collect, implement, and manage (for example: Statistics Manager, Auto statistics jobs (recollect, and analyze).)
- Identify the features, functionality, and benefits of Teradata Intelligent Memory (TIM.)
- Given a scenario, identify the source of the data (for example: XML and XML Lock Table.)
- Given a scenario, identify what ResUsage data is used to isolate the cause of a performance issue.
- Given a scenario, identify the process, methodology, and tools to troubleshoot a blocking condition.
- Given a scenario, identify how to analyze and remediate sub-optimal queries.
- Given a scenario, identify the implications in performance and efficiency when moving tables from one MAP to another.
- Given a scenario, identify the effects of partition locking.
- Given a scenario, identify how to implement load isolation.

Recommended Courses:

- [ILT 25964 Introduction to the Teradata Database](#)
- [ILT 25971 Teradata Warehouse Management](#)
- [ILT 25968 Teradata Physical Database Design](#)
- [ILT 25969 Teradata Physical Database Tuning](#)
- [ILT 34948 Teradata Parallel Transporter](#)

Security Management and Auditing – 8%

- Identify the features, functionality and benefits of secure zones.
- Identify the features, functionality and benefits of advanced security configurations (for example: TD Wallet, LDAP, Kerberos, SSO, logon rules, IP Filter, etc.).

Recommended Courses:

- [ILT 25970 Teradata Warehouse Administration](#)

Space Management – 8%

- Identify the features, functionality, and benefits of global space accounting.
- Identify the purpose of FreeSpace Percent and which utilities benefit from it.
- Given a scenario, identify the advanced space management utility that should be used.

Recommended Courses:

- **ILT 25970 Teradata Warehouse Administration**

User Administration – 7%

- Given a scenario, identify how to meet specific 3-tier data access requirements.
- Identify the features and components of account string expansion and where and why it is used.
- Given a scenario, identify how to protect certain data values from unauthorized access.

Recommended Courses:

- **ILT 25970 Teradata Warehouse Administration**

Database Management – 12%

- Given a scenario, identify the system macro that execute privilege is required to be granted.
- Given a scenario, identify how to project when requested resources will exceed defined thresholds.
- Given a performance troubleshooting scenario, identify the likely cause of the problem and how to identify it.
- Identify the effects on a user session of changing a DBS control parameter.
- Identify reasons to have a planned system restart.
- Identify how to monitor an unplanned system restart.
- Given a scenario, identify the process that can be used to identify and repair a corrupted table.
- Identify the details that are required to create a QueryGrid Foreign Server.
- Identify QueryGrid performance considerations.
- Identify the features, functionality, and benefits of MAPS.

Recommended Courses:

- **ILT 25970 Teradata Warehouse Administration**
- **ILT 25971 Teradata Warehouse Management**
- **ILT 49663 Teradata Viewpoint**
- **WBT 56458 Teradata QueryGrid 2.0 Technical Overview**
- **ILT 25968 Teradata Physical Database Design**

Workload Management – 15%

- Given a scenario, identify the TIWM solution.

- Given a scenario, identify the TASM solution.
- Given a scenario, identify how to use Query Banding for workload management.
- Given a scenario, identify how to use throttles for workload management.
- Given a scenario, identify how to use exceptions for workload management.
- Given a scenario, identify how to use utility workload limits for workload management.

Recommended Courses:

- [ILT 25971 Teradata Warehouse Management](#)

Summary of All Recommended Courses for DBA Exam

[ILT 25964 Introduction to the Teradata Database](#) OR [WBT 26348 Introduction to the Teradata Database](#)

[ILT 25968 Teradata Physical Database Design](#)

[ILT 25969 Teradata Physical Database Tuning](#)

[ILT 25970 Teradata Warehouse Administration](#)

[ILT 25971 Teradata Warehouse Management](#)

[ILT 34948 Teradata Parallel Transporter](#)

[ILT 49663 Teradata Viewpoint](#)

[WBT 53054 Teradata Data Stream Architecture \(DSA\)](#)

[WBT 56458 Teradata Query Grid 2.0 Technical Overview](#)

[WBT 56792 Introduction to ANSI Temporal Tables](#)