

Teradata Solution Training for the Oracle Professional

Build Your Business Benefits

You've decided to move to a Teradata® solution. Now it's time for the next crucial step: ensuring that your IT professionals have the training they need to maximize your technology investment. That's where Teradata Customer Education comes in. We can help you unlock the power of Teradata systems by providing you with a strategic, value-added resource that dramatically improves the business benefits of your new data warehouse.

We offer an education and training curriculum for your organization, specifically designed for new Teradata solution users with Oracle® experience. The courseware will provide a solid foundation on which to quickly build Teradata solution knowledge and expertise. We'll train your IT staff to leverage everything a Teradata solution has to offer. Our instructors will ensure:

- > Your IT professionals are prepared for certification through specific job role tracks.
- > You can evaluate employee skills and quantify them.
- > Users quickly become productive with your Teradata solution.

You've decided to invest in a Teradata solution. Now it's time to ensure you:

- > **Maximize the return on that investment.**
- > **Speed the time needed to become productive.**
- > **Receive the necessary level of Teradata technical training.**
- > **Design an education curriculum for your unique needs.**

Designed specifically for new Teradata solution users with Oracle experience, Teradata Training for the Oracle Professional was created to enable Oracle DBAs and Administrators to come up to speed quickly on the Teradata platform. The courseware bundle combines Teradata system fundamentals with accelerated implementation strategies to quickly help build Teradata system knowledge and experience.

Introduction to Teradata

This course introduces the features, functions, and benefits of the Teradata Database with a technical overview of the hardware and software that support it. This one-day course is available as classroom, web-based training, or CD-ROM instruction. Topics covered include:

- > Teradata Database components and architecture
- > Teradata hardware platforms
- > Teradata-supported operating systems
- > Advantages of parallel processing
- > Differences between Primary Keys and Primary Indexes
- > Using Primary and Secondary Indexes



- > Fault tolerant features of Teradata, including Fallback Recovery journals, RAID protection, cliques, and clusters
- > Teradata utilities, system management tools, programming tools, and report writers

Oracle to Teradata 101

If you've worked with Oracle for years and now find yourself the DBA for a Teradata solution, you'll want to get productive as soon as possible. You already understand relational databases and SQL. You just need to learn the ins and outs of the Teradata Database. This web-based course reviews the Teradata Database in Oracle terms. You'll discuss basic architectural differences and the similarities between the two databases. Database setup and database structures will be covered. Armed with this comparison, you'll have the information to get started with your Teradata solution.

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Migrating your Oracle Database to a Teradata Solution

Your company wants to move Oracle managed user data into your new Teradata solution. As a DBA, your job is moving that data. This web-based course helps you analyze the decisions required in any migration effort. Looking how to best analyze the purpose of the migration – is it to evolve the data warehouse to a new functional level or is it just to rehost the data. Topics covered include:

- > Understanding the business goals of a data migration.
- > Analyzing technical migration goals and the best way to achieve them.
- > Examining the existing database inventory and the data sources to formulate the best migration strategy.

Migrating Oracle Applications to a Teradata Solution

This web-based course covers what you need to know when converting applications that processed your Oracle database. These include ODBC and third-party applications, canned queries, third- and fourth-generation language programs, and PL/SQL processes. Also, the course discusses how to leverage Teradata parallelism to get the best performance and efficiency from your applications.

Teradata Database Physical Design

This instructor-led course defines the processes and procedures to follow when designing a database for implementation on a Teradata system. It explains how to transform a logical data model into an extended data model. This course focuses on the CREATE TABLE statement, including all aspects of table design. It covers Teradata Database data distribution, access, and use of derived data. You'll also cover similarities between join and aggregation processing, the implementation of referential integrity, and the steps to optimize space management. Other topics include:

- > Differences between logical and physical data models.
- > Teradata Database data distribution and hashing.
- > How to analyze design criteria and choose primary and secondary indexes.
- > Using denormalization techniques in your database design.
- > Sizing criteria, collecting statistics, and using the EXPLAIN facility.
- > Using tools to maximize space.
- > Using the CREATE TABLE and CREATE INDEX statements along with their available options.

Teradata Solution Administration

This in-depth, instructor-led course focuses on administrative activities associated with a Teradata installation. Subjects covered include the environment including databases, users, space allocation, and external connectivity to the Teradata system. You'll also cover user controls such as access rights, roles, profiles, and built-in accounting functions. Administrative utilities such as DBW, Ferret, Checktable, and Recovery Manager are briefly covered. Also included is an in-depth study of the Recovery Utilities (Archive, Permanent Journals, Dual systems). This course is for those who will be administering a Teradata system and must perform these functions. Other topics include:

- > How to define accounts and perform system accounting functions.
- > Using Roles and Profile features to simplify user and access right management; implicit, explicit, and automatic access rights.
- > Using views to limit row or column accessibility.
- > Access logging.
- > Managing queries with Teradata Database query manager (DBQM).
- > Mainframe and client connectivity.
- > Using monitoring and administration tools: DBW, Remote Console, Query Session, Recovery Manager, and Ferret.

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- > User priorities and the impact on system performance.
- > Identify the use of journaling, fallback, and RAID options in data protection.
- > Describe data backup and recovery, including the use of ARC.
- > Plan a disaster recovery scenario for your environment.

Teradata SQL

This practical, hands-on course combines experience with defining and creating database objects, as well as retrieving and manipulating data using the Teradata Structured Query Language (SQL). ANSI standard conventions and the Teradata extensions are included. The course is available as classroom or web-based training. Course topics include:

- > Basic relational concepts and their implementation using SQL.
- > Retrieving data using the SELECT statement.
- > Using logical and arithmetic expressions and output formatting.

- > Producing reports using complex joins, subqueries, aggregations, and string manipulation.
- > Creating tables and views using referential integrity constraints at column and table levels.
- > Maintaining data using INSERT, UPDATE, and DELETE.
- > Creating, debugging, and executing macros and passing runtime parameters.
- > Using VIEWS and MACROS for security and control.
- > ANSI standard join processing including inner, outer, left, right, cross, and product joins.
- > ANSI standard features including CASE and EXISTS statements, correlated subqueries, derived tables, null handling, and date/time extraction.
- > Using the HELP and SHOW facilities to get information from the Data Dictionary.
- > How to use ANSI data/time data types for date and time-oriented reporting.

Certified Professional Program

Another program your users may want to leverage is the Teradata Certified Professional Program which establishes an industry-standard measure of technical competence for IT professionals working with Teradata technology. That includes industry-wide education benchmarks for those involved in designing, administering, supporting, and writing applications for the Teradata solution. Teradata Certified Professionals have a distinct advantage in the marketplace, and Teradata certification increases the value of your Teradata investment.

For course schedules or more detailed information about Teradata Solution Training for the Oracle Professional, visit www.TeradataEducationNetwork.com.

Packaged pricing for Teradata courseware is available depending upon the training method you select. Contact your Teradata account representative for more details.

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