

Vertica Essentials (VERTE)

ID VERTE Price 2,250.— €(excl. tax) Duration 3 days

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Course Overview

The Vertica Essentials course covers the architecture and capabilities of Vertica Analytics in Enterprise mode. This course is a prerequisite to all advanced courses and will prepare you for the operational success of your deployment.

Highlights:

- Describe the Vertica data architecture
- Manage data within a Vertica database, including loading and removing data
- Describe how SQL queries are executed
- Modify the database structure for optimal query execution
- Manage database users

Who should attend

Database Administrators

Prerequisites

To be successful in this course, you should have the following prerequisites or knowledge:

- Knowledge of RDBMS concepts (understanding databases and schemas, database normalization, etc.)
- Familiarity with basic SQL syntax, ability to troubleshoot syntax errors, etc.
- Experience with the Linux operating system (how to change directories, list directory contents, view and edit files, etc.)

Course Objectives

On completion of this course, participants should be able to:

- Describe Vertica's database and data storage structures
- Load and remove data from a Vertica database
- Optimize the database to improve query performance
- Create and manage database users
- Back up and restore a Vertica database

Course Content

- Module 1: Introduction to the Training Environment
- Module 2: Vertica Overview
- Module 3: Introduction to Projections
- Module 4: Loading Data
- Module 5: Query Execution
- Module 6: Optimizing Database Design
- Module 7: Removing Data
- Module 8: Database User Management
- Module 9: Table Access Privileges
- Module 10: Database Backup and Restore

Detailed Course Outline

Module 1: Introduction to the Training Environment

- Log in to the training environment
- Review the training environment configuration
- Introduction to Management Console
- Using the valab utility

Module 2: Vertica Overview

- Describe the building blocks of the Vertica platform

Module 3: Introduction to Projections

- Identify basic projection types
- Read a projection DDL to determine its structure
- Describe the benefits of projections

Module 4: Loading Data

- Review the structure of tables and projections
- Load data using the COPY command
- Manually run the Tuple Mover mergeout task
- Monitor data loads using Management Console and vsql

Module 5: Query Execution

- Generate a query plan
- Time a query
- Profile a query
- Identify the database epochs

Module 6: Optimizing Database Design

- Create a comprehensive database design using Management Console

Module 7: Removing Data

- Remove data by dropping and truncating tables
- Bulk delete data from tables
- Purge delete vectors

Module 8: Database User Management

- Create new database users
- Create new database user roles
- Assign a role to a user
- Create a role hierarchy

Module 9: Table Access Privileges

- Assign inheritable privileges to a database schema
- Limit access to database columns and rows by role
- Restrict non-administrator access to system tables

Module 10: Database Backup and Restore

- Create a backup configuration file
- Back up and restore the database
- Monitor database backups
- Replicating objects
- Duplicating a cluster

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