

Google Cloud - Migrating Teradata Users to BigQuery

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Course Number: GCP-MTDBQ

Duration: 1 days

Overview

Course Description

In this course you will learn how to translate various concepts in Teradata to the analogous concepts in BigQuery. You will learn how the high-level architectures of Teradata and BigQuery compare, understand differences in how to configure datasets and tables, map data types in Teradata to data types in BigQuery, understand schema mapping from Teradata to BigQuery, optimize your new schemas in BigQuery, and do a high-level comparison of SQL dialects in Teradata and BigQuery.

Skills Gained

- Compare architecture and provisioning of resources in Teradata and BigQuery
- Configure datasets and tables in BigQuery
- Map and compare data types in Teradata to data types in BigQuery
- Map and optimize schemas from Teradata to BigQuery
- Translate SQL from Teradata to BigQuery

Who Can Benefit

Customers with experience using Teradata as a data warehouse for managing data and performing SQL analysis. Basic experience with BigQuery is recommended but not required.

Prerequisites

Experience with Teradata; basic familiarity with BigQuery is helpful.

Audience

Course Details

Outline

Module 01: Understanding BigQuery Architecture

- Quick reminder of Teradata architecture
- Overview of BigQuery architecture
- Separation of compute and storage in BigQuery
- BigQuery Slots
- Workload management in BigQuery

Module 02: Creating Datasets and Tables in BigQuery

- Resource Hierarchy in Teradata
- Resource Hierarchy in BigQuery
- Creating resources in BigQuery
- Sharing resources in BigQuery

Module 03: Mapping Data Types from Teradata to BigQuery

- Mapping for data types from Teradata to BigQuery
- Data types unique to BigQuery

Module 04: Schema Optimization and Mapping

- Schema definitions in BigQuery
- Partitioning in BigQuery
- Clustering in BigQuery

Module 05: SQL Translation from Teradata to BigQuery

- SELECT statements

- DML statements
- DDL statements
- UDFs and Procedures