Database Specialist
Exam 1D0-541

Domain 1: Relational Database Fundamentals

1.1 Identify basic database types and management systems

1.2 List common database languages and their purposes, and identify language subsets of Structured Query Language (SQL).

1.3 Identify relational data modeling schemas, characteristics and manipulation

Domain 2: Relational Database Design and Application

2.1 Identify the steps of the database planning life cycle

2.2 Identify the activities in the conceptual design phase of a database

Domain 3: Normalization and Database Design

3.1 Apply normalization techniques and processes

3.2 Describe logical database design steps and practices

3.3 Interpret logical data models into a physical data model that can be implemented by a particular database management system (DBMS)

Domain 4: Structured Query Language (SQL)

4.1 Identify SQL commands and syntax

4.2 Create statements using Data Definition Language (DDL)

4.3 Form commands using Data Manipulation Language (DML)

4.4 Use Data Control Language (DCL) statements to control the access to data in a database and to grant users permissions for data operations

Domain 5: Relational Algebra and Databases

5.1 Define and describe the use of relational algebra in order to create new relationships from existing database relations

5.2 Compose joins in a database

Domain 6: Transactions, Currency Control and Database Security

6.1 Create transactions and enable currency control

6.2 Identify elements of database security