

# Database Specialist

Exam 1D0-541



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## 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