55315: Introduction to SQL Databases

Duration: 3 Days
Method: Instructor-Led Training (ILT) | Live Online Training

Course Description

The course describes fundamental database concepts including database types, database languages, and database designs.
NOTE: *This course updates and replaces the course, 10985: Introduction to SQL Databases.*

Target Audience

This course is intended for:

- Persons who are moving into a database role, or whose role has expanded to include database technologies.
- Developers that deliver content from SQL Server® databases.

Prerequisites

To attend this course, candidates must have:

- General computer literacy.

Course Objectives

Upon successful completion of this course, attendees will be able to:

- Describe key database concepts in the context of SQL Server.
- Describe database languages used in SQL Server.
- Describe data modelling techniques.
- Describe normalization and denormalization techniques.
- Describe relationship types and effects in database design.
- Describe the effects of database design on performance.
- Describe commonly used database objects.

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Course Topics

Module 1: Introduction to Databases
- Introduction to Relational Databases
- Other Databases and Storage
- Data Analysis
- SQL Server Database Languages

Module 2: Data Modelling
- Data Modelling
- Designing a Database
- Relationship Modelling

Module 3: Normalization
- Fundamentals of Normalization
- Normal Form
- Denormalization

Module 4: Relationships
- Introduction to Relationships
- Planning Referential Integrity

Module 5: Performance
- Indexing
- Query Performance
- Concurrency

Module 6: Database Objects
- Tables
- Views
- Stored Procedures, Triggers and Functions

LABS INCLUDED

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