

Introduction to SQL Databases

This three-day instructor-led course is aimed at people looking to move into a database professional role or whose job role is expanding to encompass database elements.

The course describes fundamental database concepts including database types, database languages, and database designs.

Who Should Attend

This primary audience for this course is people who are moving into a database role, or whose role has expanded to include database technologies

Course Prerequisites

As this is a foundation level course and participants should have:

- > General Computer Literacy

Course Objectives

After completing this course, participants will be able to:

- > Describe key database concepts in the context of SQL Server 2016
- > Describe database languages used in SQL Server 2016
- > 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

Course Code: 10985C
Course Duration: 3 Days

Course Summary

Module 1: Introduction to Databases
Module 2: Data Modelling
Module 3: Normalization
Module 4: Relationships
Module 5: Performance
Module 6: Database Objects

Microsoft
Partner


Gold Data Analytics
Gold Data Platform
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Introduction to SQL Databases

Course Outline

Module 1: Introduction to Databases

This module introduces key database concepts in the context of SQL Server 2016

Lessons

- > Introduction to relational databases
- > Other types of database
- > Data analysis
- > Database languages in SQL Server

Lab

- > Exploring and querying SQL Server databases

Module 2: Data Modelling

This module describes data modelling techniques

Lessons

- > Data modelling
- > ANZI/SPARC database model
- > Entity relationship modelling

Lab

- > Identity components in entity relationship modelling

Module 3: Normalization

This module describes normalization and denormalization techniques

Lessons

- > Fundamentals of Normalization
- > Normal Form
- > Denormalization

Lab

- > Normalizing Data

Module 4: Relationships

This module describes relationship types and effects in database design

Lessons

- > Introduction to Relationships
- > Planning referential integrity

Lab

- > Planning and implementing referential integrity

Module 5: Performance

This module introduces the effects of database design on performance

Lessons

- > Indexing
- > Query Performance
- > Concurrency

Lab

- > Performance Issues

Module 6: Database Objects

This module introduces commonly used database objects.

Lessons

- > Tables
- > Views
- > Stored procedures, triggers and functions

Lab

- > Using SQL Server

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