



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:

The 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, participants only require:

- 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 & 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: 10985A

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

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Call 1300 927 394 to register for this course today as places are strictly limited.



Course Outline

Module 1: Introduction to Databases

In 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

Lab

- Querying SQL Server

Module 2: Data Modelling

This module describes data modelling techniques

Lessons

- Data modelling
- ANSI/SPARC database model
- Entity relationship modelling

Lab

- Entity Relationship Modelling

Module 3: Normalization

This module describes normalization and denormalization techniques.

Lessons

- Why normalize data?
- Normalization terms
- Levels of normalization
- Denormalization

Lab

- Normalizing Raw Data

Module 4: Relationships

This module describes relationship types and effects in database design

Lessons

- Schema Mapping
- Referential Integrity

Lab

- Designing Relationships

Module 5: Performance

This module introduces the effects of database design on performance.

Lessons

- Indexing
- Query Performance
- Concurrency

Lab

- Query Performance

Module 6: Database Objects

This module introduces commonly used database objects.

Lessons

- Tables
- Views
- Stored procedures
- Other database objects

Lab

- Using SQL Server in a Hybrid Cloud