

# 10985 Introduction to SQL Databases

## Course Overview

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This is a 3-day class

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 Objectives

After completing this course, students 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 Outline

### 1 Introduction to databases

Introduction to relational databases  
Other types of database  
Data analysis  
Database languages

### 2 Data Modelling

Data modelling  
ANSI/SPARC database model  
Entity relationship modelling

### 3 Normalization

Why normalize data?  
Normalization terms  
Levels of normalization  
Denormalization

### 4 Relationships

Schema mapping  
Referential integrity

### 5 Performance

Indexing  
Query performance  
Concurrency

### 6 Database Objects

Tables  
Views  
Stored procedures  
Other database objects

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