

# INTRODUCTION TO SQL DATABASES (55315)

Course Code: 821544

This course updates and replaces course 10985C previously published under the same title.

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. This course updates and replaces course 10985C previously published under the same title.

## What You'll Learn

At course completion

- 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

## Who Needs to 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. Developers that deliver content from SQL Server databases will also benefit from this material.

## Prerequisites

This is a foundation level course and therefore only requires general computer literacy.

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CLASSROOM LIVE

\$2,095 CAD

3 Day

## Classroom Live Outline

### **Module 1: Introduction to databases**

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

#### **Lessons**

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

### **Module 2: Data Modeling**

This module describes data modelling techniques.

#### **Lessons**

- Data Modelling
- Designing a Database
- Relationship Modeling

### **Module 3: Normalization**

This module describes normalization and denormalization techniques.

#### **Lessons**

- Fundamentals of Normalization
- Normal Form
- Denormalization

### **Module 4: Relationships**

This module describes relationship types and effects in database design.

## **Lessons**

- Introduction to Relationships
- Planning Referential Integrity

## **Module 5: Performance**

This module introduces the effects of database design on performance.

## **Lessons**

- Indexing
- Query Performance
- Concurrency

## **Module 6: Database Objects**

This module introduces commonly used database objects.

## **Lessons**

- Tables
- Views
- Stored Procedures, Triggers and Functions

## **Classroom Live Labs**

Lab: Exploring SQL Server Databases and Tables

- Explore SQL Server
- Query Databases and Tables

Lab: Identify Components in Relationship Modeling

- Modeling a database

Lab: Normalizing Data

- Normalizing Tables

Lab: Planning and Implementing Referential Integrity

- Implementing Referential Integrity

Lab: Performance Issues

- Using Indexes

Lab: Using SQL Server Objects

- Using Tables
- Using Views
- Using Stored Procedures

# INTRODUCTION TO SQL DATABASES (55315)

Course Code: 821544

VIRTUAL CLASSROOM LIVE

\$2,095 CAD

3 Day

## Virtual Classroom Live Outline

### **Module 1: Introduction to databases**

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

#### **Lessons**

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

### **Module 2: Data Modeling**

This module describes data modelling techniques.

#### **Lessons**

- Data Modelling
- Designing a Database
- Relationship Modeling

### **Module 3: Normalization**

This module describes normalization and denormalization techniques.

#### **Lessons**

- Fundamentals of Normalization
- Normal Form
- Denormalization

### **Module 4: Relationships**

This module describes relationship types and effects in database design.

## **Lessons**

- Introduction to Relationships
- Planning Referential Integrity

## **Module 5: Performance**

This module introduces the effects of database design on performance.

## **Lessons**

- Indexing
- Query Performance
- Concurrency

## **Module 6: Database Objects**

This module introduces commonly used database objects.

## **Lessons**

- Tables
- Views
- Stored Procedures, Triggers and Functions

## **Virtual Classroom Live Labs**

Lab: Exploring SQL Server Databases and Tables

- Explore SQL Server
- Query Databases and Tables

Lab: Identify Components in Relationship Modeling

- Modeling a database

Lab: Normalizing Data

- Normalizing Tables

Lab: Planning and Implementing Referential Integrity

- Implementing Referential Integrity

Lab: Performance Issues

- Using Indexes

Lab: Using SQL Server Objects

- Using Tables
- Using Views
- Using Stored Procedures

Sep 8 - 10, 2025 | 9:00 AM - 5:00 PM EDT

Sep 15 - 17, 2025 | 12:00 - 8:00 PM EDT

Oct 13 - 15, 2025 | 9:00 AM - 5:00 PM EDT

Jan 12 - 14, 2026 | 9:00 AM - 5:00 PM EST



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PRIVATE GROUP TRAINING

3 Day

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