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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 USD	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

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VIRTUAL CLASSROOM LIVE	$2,095 USD	3 Day

Virtual Classroom Live Outline

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Lessons

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

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This module describes data modelling techniques.

Lessons

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- Designing a Database
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- Using Views
- Using Stored Procedures

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

Mar 16 - 20, 2026 | 9:00 AM - 5:00 PM EDT

May 4 - 6, 2026 | 9:00 AM - 5:00 PM EDT

Jul 20 - 22, 2026 | 9:00 AM - 5:00 PM EDT

Sep 28 - 30, 2026 | 9:00 AM - 5:00 PM EDT

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PRIVATE GROUP TRAINING	3 Day

Visit us at www.globalknowledge.com or call us at 1-866-716-6688.

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