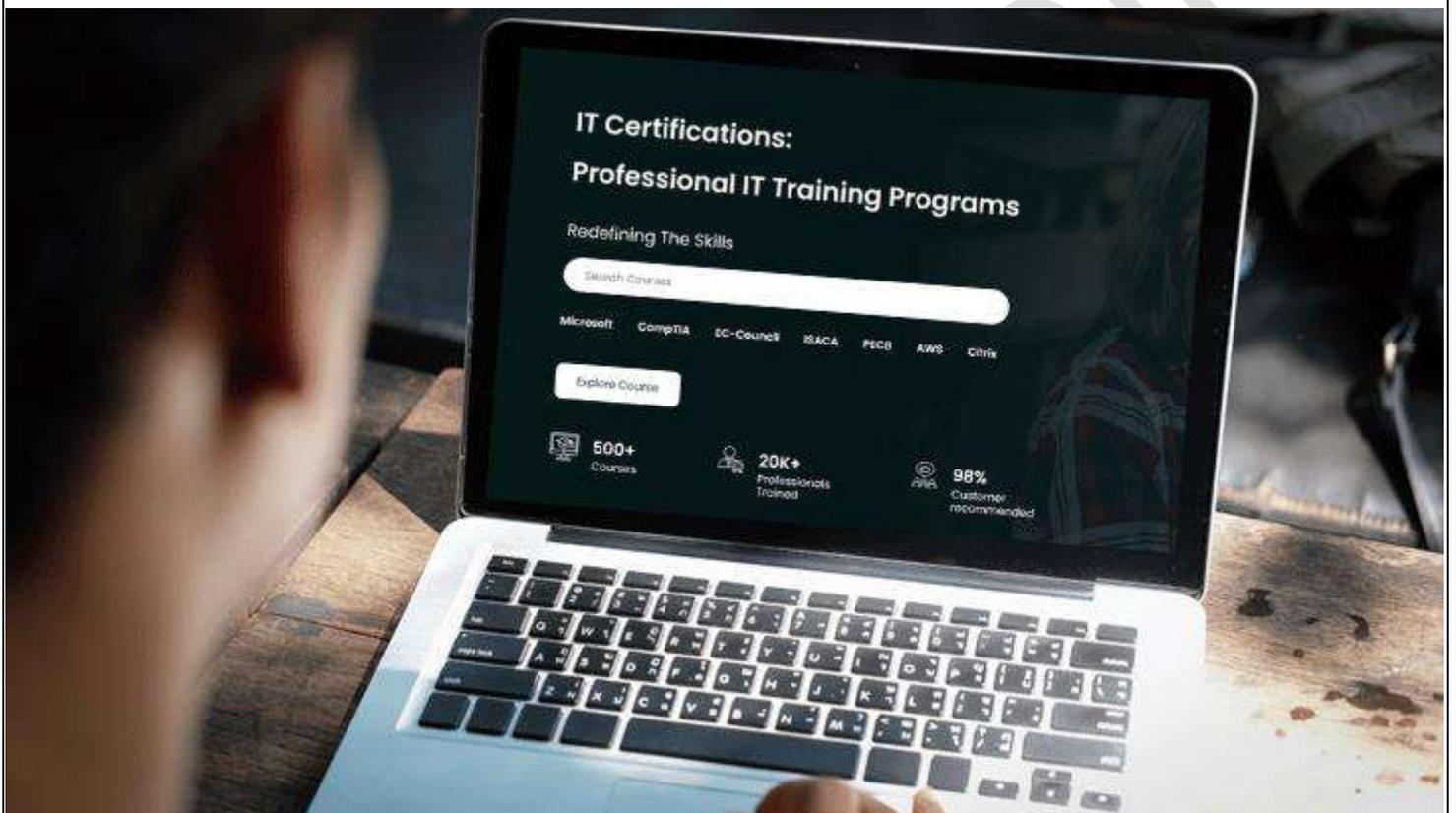




Redefining The Skills



55315: INTRODUCTION TO SQL DATABASES TRAINING

Duration: 3 Days

Course Description

This Introduction to SQL Databases training is a three-day instructor-led training course.

It is for students who want to start their database profession or whose current job is growing to contain database elements.

This course covers all the fundamentals concept of databases like database languages, database types, and database designs.

Training Exclusives

- Live instructor-led interactive sessions with Microsoft Certified Trainers (MCT).
- Access to Microsoft Official Courseware (MOC).
- Real-time Virtual Lab Environment.
- Experience 24*7 Learner Support.
- Self-paced learning and flexible schedules.

Who should attend this course?

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 training.

What you will learn

- 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

Prerequisites

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

Curriculum

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

Lab 1: Exploring SQL Server Databases and Tables

- Explore SQL Server
- Query Databases and Tables

After completing this module, students will be able to:

- Describe what a database is
- Understand basic relational aspects
- Describe database languages used in SQL Server
- Describe data analytics

Module 2: Data Modeling

This module describes data modelling techniques.

Lessons

- Data Modelling
- Designing a Database
- Relationship Modeling

Lab 1: Identify Components in Relationship Modeling

- Modeling a database

After completing this module, students will be able to:

- Understand the common data modeling techniques
- Describe the ANSI/SPARC database model
- Describe entity relationship modeling

Module 3: Normalization

This module describes normalization and denormalization techniques.

Lessons

- Fundamentals of Normalization
- Normal Form
- Denormalization

Lab 1: Normalizing Data

- Normalizing Tables
- After completing this module, students will be able to:
 - Describe normalization benefits and notation
 - Describe important normalization terms
 - Describe the normalization levels
 - Describe the role of denormalization

Module 4: Relationships

This module describes relationship types and effects in database design.

Lessons

- Introduction to Relationships
- Planning Referential Integrity

Lab 1: Planning and Implementing Referential Integrity

- Implementing Referential Integrity

After completing this module, students will be able to:

- Describe relationship types
- Describe the use, types, and effects of referential integrity

Module 5: Performance

This module introduces the effects of database design on performance.

Lessons

- Indexing
- Query Performance
- Concurrency

Lab 1: Performance Issues

- Using Indexes
- After completing this module, students will be able to:
- Discuss the performance effects of indexing
- Describe the performance effects of join and search types
- Describe the performance effects of concurrency

Module 6: Database Objects

This module introduces commonly used database objects.

Lessons

- Tables
- Views
- Stored Procedures, Triggers and Functions

Lab 1: Using SQL Server Objects

- Using Tables
- Using Views
- Using Stored Procedures

After completing this module, students will be able to:

- Describe the use of tables in SQL Server
- Describe the use of views in SQL Server
- Describe the use of stored procedures in SQL Server
- Describe other database objects commonly used in SQL Server

FOR ANY QUERY CONTACT US – [MICROTEK LEARNING](http://www.microteklearning.com)
