

urbancode>

Training & Solutions



Microsoft®
SQL Server®

MICROSOFT SQL SERVER CERTIFICATION COURSE

Enhance your SQL skills and gain the competitive edge

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About Course

Urbancode's online Microsoft SQL Server Certification course is curated by experienced professionals and tailored for mastery in fundamental and advanced database concepts. Covering queries, subqueries, joins, unions, and SQL server installation, it equips learners with essential skills crucial for becoming proficient in SQL and database management.

Primary Aspect

- 30 hrs Instructor-Led Training
- 32 hrs Practice & Exercises
- Mentor Support

Why should you choose this course?



Empowering careers

It is ranked as the 3rd most in-demand IT skill and the job opportunities have been increasing in the global market.



Industry Relevance

Acquiring skills in MS SQL can open doors to job opportunities in companies that rely on MS SQL Server.



Data-Driven Decision Making

Understanding SQL allows you to analyze data, which enables better decision-making based on factual insights.



High Demand

Proficiency in MS SQL often fetches high-paying positions due to the demand for these skills in the job market.

Course Curriculum

Module 1: Introduction to Relational Databases and SQL

- Introduction to Databases and Database Management Systems (DBMS)
- Relational Database Concepts
 - Normalization Concepts (1NF, 2NF, 3NF)
 - Denormalization and its Use Cases
- Introduction to SQL (Structured Query Language)

Module 2: Database Design

- Database Design Principles
- Entity-Relationship (ER) Modelling
- Indexes and Keys in SQL Server
- SQL Data Types and Operators

Module 3: SQL Server Installation and Configuration

- Installing SQL Server
- SQL Server Configuration Options
- SQL Server Management Studio (SSMS) Overview
- Connecting to SQL Server Instances

Module 4: Data Definition, Manipulation and Transaction Control

- DDL Commands
 - Create, Alter, Drop, Truncate
- DML Commands
 - Select, Insert, Update, Delete
- DCL Commands
 - Grant, Revoke
- TCL Commands
 - Commit, Rollback, Save point

Module 5: Working with SQL: Join, Functions, and temp table

- Combining rows from tables using inner, outer, cross, and self joins
- Deploying operators such as intersect, except, union
- Understanding SQL functions and their usage
- List of built-in SQL Functions
 - Aggregate functions
 - Date & Time functions
 - String functions
- Temporary table creation

Course Curriculum

Module 6: SQL Views and Stored Procedures

- Learning SQL views
 - Advantage of views
 - Managing views in SQL Server
- Understanding stored procedures and their key benefits
- Working with Stored Procedures
 - Executing a SP with Parameters
 - Executing a SP without Parameters

Module 7: SQL Indexes and Triggers

- Creating indexes & their guidelines
 - Clustered index
 - Non-Clustered index
- Creating DML Triggers
- Instead of Triggers
- Enable & disable DML Triggers

Module 8: Real-world Projects and Case Studies

- Hands-on SQL Server Projects
- Case Studies from Industry
- Best Practices and Industry Standards

Module 9: Revision and Certification Preparation

- Review of Key Concepts
- Practice Tests and Quizzes
- Tips and Strategies for Certification Exams (e.g., Microsoft Certified: Azure Database Administrator Associate)