QUANTUM-AI
THE SCHOOL OF DATA AND AI

# MS SQL SERVER TRAINING

## WELCOME TO MS SQL SERVE

MS SQL Server Training is a practical, job-oriented program designed to develop strong skills in database management and data analysis using Microsoft SQL Server. The course focuses on writing efficient queries with SQL, managing databases, and understanding relational database concepts. Learners gain hands-on experience in creating tables, views, stored procedures, triggers, and performing data manipulation and reporting. The program also covers database design, backup and recovery, security, and performance optimization. Guided by industry experts, students work on real-world database scenarios and best practices. By the end of the training, participants can confidently manage databases and support data-driven business applications



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# WHY QUANTUMAI?

Quantum AI offers a practical, job-focused MS SQL Server Training Program designed to build a strong foundation in database management, data analysis, and database development. The curriculum emphasizes hands-on learning in SQL queries, database design, data manipulation, and server management using Microsoft SQL Server. Learners gain experience in creating tables, views, stored procedures, and triggers while working with relational databases and real-world data scenarios using SQL. The program also introduces database security, backup and recovery, and performance optimization techniques. Guided by industry experts, students learn best practices for managing databases and analyzing data, making it an ideal choice for beginners and professionals pursuing careers in database administration and data management.

# COURSE OVERVIEW

The MS SQL Server course is designed to build strong skills in database management, data storage, and data analysis using Microsoft SQL Server. The program focuses on practical learning of relational database concepts and writing efficient queries using SQL.

Students learn how to create and manage databases, tables, views, indexes, stored procedures, and triggers. The course also covers data manipulation, database design, backup and recovery, security management, and performance optimization.Through hands-on projects and real-world scenarios, learners gain the ability to manage databases effectively and support business applications. By the end of the program, students are prepared for roles in database development, database administration, and data management

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# WHAT YOU WILL LEARN

### DATABASE BASICS
- INTRODUCTION TO DATABASE MANAGEMENT SYSTEMS
- RELATIONAL DATABASE CONCEPTS
- TABLES, ROWS, COLUMNS, AND SCHEMAS
- UNDERSTANDING SQL LANGUAGE

### INSTALLATION & SETUP
- INSTALLING MS SQL SERVER
- INTRODUCTION TO SQL SERVER MANAGEMENT STUDIO (SSMS)
- DATABASE CONFIGURATION BASICS
- CREATING AND MANAGING DATABASES

### SQL QUERY LANGUAGE
- SELECT, INSERT, UPDATE, DELETE QUERIES
- FILTERING AND SORTING DATA
- 1/4 JOINS AND RELATIONSHIPS
- AGGREGATE FUNCTIONS

### DATABASE DESIGN
- DATABASE NORMALIZATION
- PRIMARY KEYS AND FOREIGN KEYS
- INDEXING TECHNIQUES
- VIEWS AND STORED PROCEDURES

### PERFORMANCE OPTIMIZATION
- QUERY OPTIMIZATION
- INDEX MANAGEMENT
- DATABASE PERFORMANCE MONITORING
- HANDLING LARGE DATASETS EFFICIENTLY.

### SECURITY & BACKUP
- USER ROLES AND PERMISSIONS
- DATABASE SECURITY BEST PRACTICES
- BACKUP AND RESTORE STRATEGIES
- DISASTER RECOVERY PLANNING

### HANDS-ON PROJECTS
- STUDENT MANAGEMENT DATABASE SYSTEM
- E-COMMERCE DATABASE DESIGN
- INVENTORY MANAGEMENT SYSTEM
- BUSINESS REPORTING DATABASE PROJECT

### INTEGRATION WITH APPLICATIONS
- MS SQL SERVER WITH .NET APPLICATIONS
- DATABASE INTEGRATION WITH WEB APPLICATIONS
- DATA REPORTING AND ANALYTICS TOOLS
- CLOUD DATABASE DEPLOYMENT BASICS

### CAREER PREPARATION
- RESUME BUILDING SESSIONS
- REAL-TIME DATABASE MANAGEMENT SCENARIOS
- 2/4 MOCK TECHNICAL INTERVIEWS
- INDUSTRY BEST PRACTICES TRAINING

### JOB ROLES
- DATABASE ADMINISTRATOR (DBA)
- DATABASE DEVELOPER
- DATA ANALYST
- BACKEND DEVELOPER
- DATA ENGINEER

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**INDUSTRIES HIRING**

- IT & SOFTWARE COMPANIES
- FINANCIAL INSTITUTIONS
- HEALTHCARE AND ENTERPRISE ORGANIZATIONS
- E-COMMERCE AND SAAS COMPANIES

**SALARY & GROWTH**

- HIGH DEMAND FOR SQL DATABASE PROFESSIONALS
- COMPETITIVE SALARY PACKAGES
- STRONG CAREER GROWTH IN DATA MANAGEMENT AND ANALYTICS
- OPPORTUNITIES IN GLOBAL IT COMPANIES




# BUILD SCALABLE APPLICATIONS

## Learn MS SQL SERVE with QuantumAI

## Get in Touch

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