

**Industry Trainers** 

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## **SQL Server Training**

#### **Contents**

#### **About SQL Server Training**

This SQL Server training teaches developers all the Transact-SQL skills they need to create database objects like Tables, Views, Stored procedures & Functions and triggers in SQL Server. Gives idea about writing Queries & Sub-queries, working with Joins, etc. As well as database management skills like backup, restore, etc.

#### **SQL Server Training Course Prerequisite**

• No Prior Experience is presumed.

#### **SQL Server Training Course Objective**

- Learn Database models
- Overview of SQL Server Management Studio and Transact-SQL language
- Master writing simple and complex queries that retrieve data from the database
- Calculate information across result sets using aggregate queries (sum, min, max, avg, etc.)
- Insert, update, and delete data
- Retrieve data from tables Training Services

  Joins US Training Services
  - Sub-queries
  - Working with Data Types
  - Procedure and Functions
  - Understand the different Views
  - Working with Triggers
  - Design a database
  - Maintain databases, tables, and sequences with SQL statements
  - Create and manage views
  - Ensure the integrity of multiple, related database updates by using transactions
  - Retrieve data using cursors
  - Manage binary data using BLOBs

#### **SQL Server Training Course Duration**

• 30 Working days, daily one and half hours



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#### **SQL Server Training Course Overview**

#### **Introduction To DBMS**

•	File	Management	System	And	lts	Drawbacks
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- Database Management System (DBMS) and Data Models
- Physical Data Models
- Logical Data Models
- Hierarchical Data Model (HDBMS)
- Network Data Model (NDBMS)
- Relational Data Model (RDBMS)
- Object Data Model (ODBMS)
- Object Relational Data Model (ORDBMS)
- Conceptual Data Models
- Entity Relationship (E-R) Model

#### Introduction To SQL Server

- Advantages and Drawbacks Of SQL Server Compared To Oracle And DB2
- Connecting To Server
- Server Type
- Server Name

# CUS Authentication Modes Service Sql Server Authentication Mode Service

Windows Authentication Mode

Login and Password

Sql Server Management Studio and Tools In Management Studio

Object Explorer

Object Explorer Details

Query Editor

#### **TSQL (Transact Structured Query Language)**

#### **Introduction To TSQL**

- History and Features of TSQL
- Types Of TSQL Commands
- Data Definition Language (DDL)
- Data Manipulation Language (DML)
- Data Query Language (DQL)
- Data Control Language (DCL)



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•	Transaction Control Language (TCL)
•	Database
•	Creating Database
•	Altering Database
•	Deleting Database
•	Constrains
•	Procedural Integrity Constraints
•	Declarative Integrity Constraints
•	Not Null, Unique, Default and Check constraints
•	Primary Key and Referential Integrity or foreign key constraints
•	Data Types In TSQL
•	Table
•	Creating Table
•	Altering Table
•	Deleting Table
Data Manipula	tion Language
<ul><li>Insert</li></ul>	
•	Identity
•	Creating A Table From Another Table
•	Inserting Rows From One Table To Another
H'o	Update Computed Columns Ining Services
ÇO	Delete
•	Differences Between Delete and Truncate

#### **Data Query Language (DQL)**

- Select
- Where clause
- Order By Clause
- Distinct Keyword
- Isnull() function
- Column aliases
- Predicates
- Between ... And
- In
- Like



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Is Null

#### **Built In Functions**

- Scalar Functions
- Numeric Functions
- Character Functions
- Conversion Functions
- Date Functions
- Aggregate Functions
- Convenient Aggregate Functions
- Statistical Aggregate Functions
- Group By and Having Clauses
- Super Aggregates
- Over(partition by ...) Clause
- Ranking Functions
- Common Table Expressions (CTE)

### Top n Clause Set Operators

Union

# Reservices Intersect us Training Services Joins Of Leaget = 38301105544

- Inner Join
- Equi Join
- Natural Join
- Non-Equi Join
- Self Join
- Outer Join
- Left Outer Join
- Right Outer Join
- Full Outer Join
- Cross Join

#### **Sub Queries**



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- Single Row Sub Queries
- Multi Row Sub Queries
- Any or Some
- ALL
- Nested Sub Queries
- Co-Related Sub Queries
- Exists and Not Exists

#### Indexes

- Clustered Index
- NonClustered Index
- Create, Alter and Drop Indexes
- Using Indexes

#### Security

- Login Creation
- SQL Server Authenticated Login
- Windows Authenticated Login
- User Creation
- Granting Permissions



- Purpose Of Views
- Creating , Altering and Dropping Indexes
- Simple and Complex Views
- Encryption and Schema Binding Options in creating views

#### **Transaction Management**

- Introduction
- Begin Transaction
- Commit Transaction
- Rollback Transaction
- Save Transaction
- Role Of Log File In Transaction Management



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• Implicit Transactions

#### **TSQL Programming**

- Drawbacks Of TSQL that leads to TSQL Programming
- Introduction To TSQL Programming
- Control statements In TSQL Programming
- Conditional Control Statements
- lf .
- Case
- Looping Control Statements
- While

#### **Cursors**

- Working With Cursors
- Types Of Cursors
- Forward\_Only and Scroll Cursors
- Static, Dynamic and Keyset Cursors
- Local and Global Cursors

#### **Stored Sub Programs**



Stored Procedures

# Creating , Altering and Dropping

- Optional Parameters
- Input and Output Parameters
- Permissions on Stored Procedures
- User Defined Functions
- Creating, Altering and Dropping
- Types Of User Defined Functions
- Scalar Functions
- Table Valued Functions
- Inline Table Valued Functions
- Multi Statement Table Valued Functions
- Permissions On User Defined Functions
- Triggers
- Purpose of Triggers
- Differences Between Stored Procedures and User Defined Functions and Triggers



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- Creating, Altering and Dropping Triggers
- Magic Tables
- Instead Of Triggers
- Exception Handling
- Implementing Exception Handling
- Adding and removing User Defined Error Messages To And From SQL Server Error Messages List
- Raising Exceptions Manual

#### **CLR Integration**

- What is CLR Integration and The Steps For Implementing It
- A Simple Example With CLR Integration

Working with XML Data Type
Backup and Restore Of Database
Attach and Detach of Database
Normalization

**FAQ** 

**INTERVIEW QUESTIONS** 



