

RedBush Technologies

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TSQL Training

SQL Server Training Course Duration

- 20 Hours, daily one and half hours

SQL Server Training Course Overview

Introduction and Foundation to SQL Server

- Connecting To Server
- Authentication Modes
- Sql Server Management Studio and Tools In Management Studio
- Create a sample database and table
- Your first SQL query
- Object Explorer Details
- Query Editor
- Data types and built-in functions
- CASE Expression

TSQL (Transact Structured Query Language)

- History and Features of TSQL
- Logical Query Processing
- Filtering data with WHERE clause
- Sorting data with ORDER BY
- Using TOP
- Types Of TSQL Commands (DDI,DML,DQL,DCL,TCL)

JOINS: Usage, Advantages/Disadvantages and Performance

- INNER JOINS
- OUTER JOINS
- CROSS JOINS
- SELF JOIN
- Multi-Join Queries
- SubQuery : Self Contained and Correlated Subqueries
- CTE(Common Table Expression)

SET OPERATORS

- UNION and UNION ALL
- INTERSECT
- EXCEPT
- Grouping Data with GROUP BY
- HAVING clause

Commonly Used Functions:

- Aggregate Functions (SUM,COUNT,AVG,MIN,MAX)
- Ranking Functions (ROW_NUMBER,RANK,DENSE_RANK,NTILE)

Tables and Constraints

- Creating and altering table
- IDENTITY Column
- Computed Column
- PRIMARY KEY Constraint
- UNIQUE Constraint
- FOREIGN KEY Constraint
- CHECK Constraint
- DEFAULT Constraint

Views and Function

- Create and Alter view
- View Options: WITH ENCRYPTION, WITH SCHEMABINDING
- WITH CHECK Option
- Modify data from a view
- Indexed view
- Table valued functions
- Scalar valued functions
- Synonyms

INSERT, UPDATE and DELETE

- Simple Insert
- INSERT SELECT, INSERT EXEC, SELECT INTO
- UPDATE: Update based on join, Update based on variable, Update
- DELETE: Simple delete, DELETE based on a join
- DELETE vs. TRUNCATE
- SEQUENCE object
- MERGE Statement
- OUTPUT Clause