

SQL SERVER





SQL SERVER OVERVIEW

- Database management system (DBMS) and Data Models
- Relational Data Model (RDBMS)
- Object Data Model (ODBMS)
- Object Relational Data Model (ORDBMS)
- Entity- Relationship Model (E-R Model)

INTRODUCTION TO SQL SERVER

- Advantages of SQL Server Over Oracle
- Installing SQL Server Management Studio
- SQL Server Authentication Modes
- Windows Authentication modes
- SQL Server Authentication Modes
- Object Explorer Window
- Query Analyzer Window

STRUCTURED QUERY LANGUGES

- History and features of SQL
- Data Types in SQL Server
- Operators in SQL Server
- Data Definition Language Commands (DDL)
- Data Manipulation Language Commands (DML)
- Data Query Language Commands (DQL)
- Data Control Language Commands (DCL)
- Transaction Control Language Commands (TCL)

Data Base

- System Defined Data Base
(Master, Model, Temp DB, MSDB)
- User Defined Data Base

Tables

- System Defined Data Base
- User Defined Data Base

Key constraints

- Not Null
- Null
- Default
- Unique
- Primary Key
- Composite Primary Key
- Foreign Key Constraint

- Candidates Key

JOINS & UNION

- Inner Joins
- Left Outer Joins
- Right Outer Joins
- Full Outer Joins
- Cross Joins
- Self-Joins
- Complex Joins
- Union v/s Union All

NORMALIZATION INDEXES

- Clustered Index
- Non- Clustered Index
- Create, Alter and Drop Indexes

VIEWS

- Purpose of Views
- Simple View and Complex Views
- Encryption and Schema Binding in Views

WORKING WITH SUBQUERIES

- Using Sub queries as Expressions
- Subqueries with Group by clause, order by clause, having clause
- Including Subqueries as Lists
Adding Subqueries as Derived Tables
- Working with Row-Number() and Rank()
- Subqueries with Group by clause, order by clause, having clause

PRE-DEFINED FUNCTIONS

- Scalar Function
- Arithmetical Functions
- Character Functions
- String Functions
- Data Time Functions
- Ranking Functions
- Conversion Functions
- Aggregate Functions

T-SQL PROGRAMMING

- Introduction to T-SQL Programming
- Control Statements in T-SQL Programming
- Conditional Control Statements

SQL SERVER

- Looping Control Statements

STORED PROCEDURES

- Introduction to Stored Procedure
- Types of Stored Procedure
- System Defined Stored Procedure
- User Defined Stored Procedure
- Working With Stored Procedure
- Exception Handling With Stored Procedure
- Real Time Examples With Stored Procedures

TRIGGERS

- DDL Triggers
- DML Triggers
- Instead Of Triggers

CURSORS

- Introduction to Cursors
- Types of Cursors

USER DEFINED FUNCTIONS

- Scalar Valued Function
- Table Valued Function
 - Transactions in SQL server
- Pivot table
- Temp table
- Common Table Expression
- Table variable
- While loop
- Dynamic SQL with optional parameters

DIFFERENCE BETWEEN STORED PROCEDURES AND FUNCTIONS

CLR INTEGRATION

WORKING WITH XML DATA TYPES

BACK UP RESTORE UP DATA BASE

FAQ's in interviews with Explanation

Resume Preparation

Real Time Scenarios/Real Time coding standards

Interview Based Queries

Complete pdf notes S

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