

## SQL Server (T-SQL) Curriculum

(Total: 35 Hrs)

### SQL Server Environment

2Hrs

- Over View
- SQL Server 2005 and 2008
- SQL Server Management Studio
- SQL Server Business Intelligence

### Development Studio SQL Language

12Hrs

- Data Types in Sql server
- DDL
- DML
- DCL

### Data Integrity

3Hrs

- Entity Integrity
- Domain Integrity
- Referential Integrity

### Database Design

2Hrs

- Normalization
- De Normalization
- Database Diagrams (E-R)

### Joins and Sub Queries

5Hrs

- T-SQL Operators
- Simple Queries
- Built in Functions
- Joins
- SubQueries
- Advanced Queries
- T-SQL Enhancements in SQL Server- 2005

### Views

2Hrs

- Create View
- Advantage of View
- Index View

### Stored Procedures

3Hrs

- System Stored Procedure
- User Stored Procedures
- Passing In/Out Parameters
- Altering Procedure
- Advantages of Procedure

## User Defined Functions

2Hrs

- Scalar UDF
- Inline DDF
- Table Variables
- Temporary Tables

## Triggers

2Hrs

- DML Triggers (After | Instead of )
- DDL Triggers
- Magic Tables
- Advantages of Triggers

## Cursors

3Hrs

- Declaring Cursors
- Modifications Thorough Cursors
- Types of Cursors
- Advantages of Cursors

## Indexes

2Hrs

- Clustered Index
- Non Clustered
- Index Creating
- Index Advantages of Indexes **XML Integration**

## Security

2Hrs

- Windows Authentication
- SQL Server Authentication
- Creating Login

## Database Permissions

1Hr

- Introduction to Roles, Schema
- Dropping Login

## Database Maintenance

1Hr

- Backup Database
- Restore Database
- Generating T-SQL Scripts and Batches
- System Databases and System Tables

## SQL Server Agent

1Hrs

- Jobs
- Schedules
- Alerts
- Operators

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