

MS SQL server 2012 for BI

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## Course Goals and Non Goals

### ➤ Course Goals

- Understanding database concepts
- How to use T-SQL statements for implementing database concepts
- Writing Stored procedures, Functions and triggers



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## Pre-requisites

- Fair knowledge of Oracle and SQL


# Course Goals and Non Goals

- **Course Non Goals**
- Database administration will not be covered
  - Different services Like SSIS,SSRS,SSAS will not be covered



# Intended Audience

➤ Developers.



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## Day Wise Schedule

### ➤ Day 1

Lesson 1: Introduction to SQL Server 2012

Lesson2 : Working with Data Types, DDL,DML and DCL statements

Lesson 3: Beginning with Transact-SQL

### ➤ Day 2

Lesson 3: Beginning with Transact-SQL

Lesson 4: Working with Joins and Subqueries

Lesson 5: Stored Procedures and functions

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- Lesson 1: Introduction to SQL Server 2012
  - What is SQL Server?
  - SQL Server Components
  - SQL Server Authentication Modes
  - SQL Server Services
  - SQL Server Version History

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➤ Lesson 1: Introduction to SQL Server 2012 (Cont..)

- SQL Server Key Business Scenarios
- SQL Server Editions
- SQL Server Tool & Utilities
- SQL Server System Databases
- SQL Server – Database Objects
- SQL Server system Tables
- SQL Server - Metadata Retrieval
- SQL Server - Features



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- **Lesson 2: Working with Data Types, Tables & Data Integrity**
  - Working With Data Types
  - Working With Schema
  - Working With Tables
  - Sequence
  - Implementing Data Integrity
- **Lesson 3: Beginning with Transact-SQL**
  - Transact-SQL
  - System Functions
  - Advanced T-SQL Queries
  - Advanced T-SQL Statements
  - Other T-SQL Statements

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➤ **Lesson 4: Working with Joins and Subquereis**

- What are Joins?
- Types of joins
- Subqueries
- Set Operators**
- UNION, UNION ALL, EXCEPT, INTERSECT

➤ **Lesson 5: Procedures and Functions**

- Stored Procedure
- Implementing Stored Procedure
- Exception handling using TRY-CATCH
- Implementing User Defined Functions

## References

- **Microsoft SQL Server 2012 : A Beginner's Guide**  
By Dusan Petkovi
- **What's new in SQL Server 2012 :Rachel Clements**
- **Microsoft SQL Server 2012 – Database Development**  
By - Tobias Thernström  
Ann Weber  
Mike Hotek  
and GrandMasters
- **Microsoft SQL Server 2012 – MSDN Library**
- **Microsoft SQL Server 2012 – TechNet Library**



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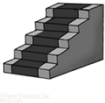
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## Next Step Courses

- SQL server 2012 services like SSIS,SSRS,SSAS
- Database Administration using SQL server 2012



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## Other Parallel Technology Areas

- Oracle
- MySQL