



SQL server 2012 – Database Development

Lesson 00:



Course Goals and Non Goals

➤ Course Goals

- Understanding database concepts
- How to use T-SQL statements for implementing database concepts
- Writing Stored procedures





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.





Day Wise Schedule

➤ Day 1

Lesson 1: Introduction to RDBMS

Lesson 2: Introduction to SQL Server 2012

Lesson 3: Working with Data Types, DDL ,DML and DCL statements

➤ Day 2

Lesson 3: Working with Data Types, DDL ,DML and DCL statements

Lesson 4: Beginning with Transact-SQL

➤ Day 3

Lesson 4: Beginning with Transact-SQL

Lesson 5: Working with Joins and Subqueries

➤ Day 4

Lesson 6: Database Objects: Indexes & Views

Lesson 7: Procedures



Table of Contents

- Lesson 1: Introduction to RDBMS
 - Introduction to databases
 - Data Models in Database
 - Properties of RDBMS
 - Data Integrity
 - T-SQL Language
- Lesson 2: Introduction to SQL Server 2012
 - What is SQL Server?
 - SQL Server Components
 - SQL Server Authentication Modes
 - SQL Server Version History
 - SQL Server Tool & Utilities



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- Lesson 2: Introduction to SQL Server 2012 (Cont..)
 - SQL Server System Databases
 - SQL Server – Database Objects
 - SQL Server system Tables
 - SQL Server - Metadata Retrieval

- Lesson 3: Working with Data Types, Tables & Data Integrity
 - Working With Data Types
 - Working With Schema
 - Working With Tables
 - Implementing Data Integrity



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- Lesson 4: Beginning with Transact-SQL
 - Transact-SQL
 - System Functions
- Lesson 5: Working with Joins and Subqueries
 - What are Joins?
 - Types of joins
- Lesson 6: Database Objects :Indexes & Views
 - Introduction to Index in SQL Server
 - Introduction to Views in SQL Server
- Lesson 7: Procedures
 - Stored Procedure
 - Implementing Stored Procedure
 - Exception handling using TRY-CATCH



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





Next Step Courses

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



Other Parallel Technology Areas

- Oracle
- MySQL