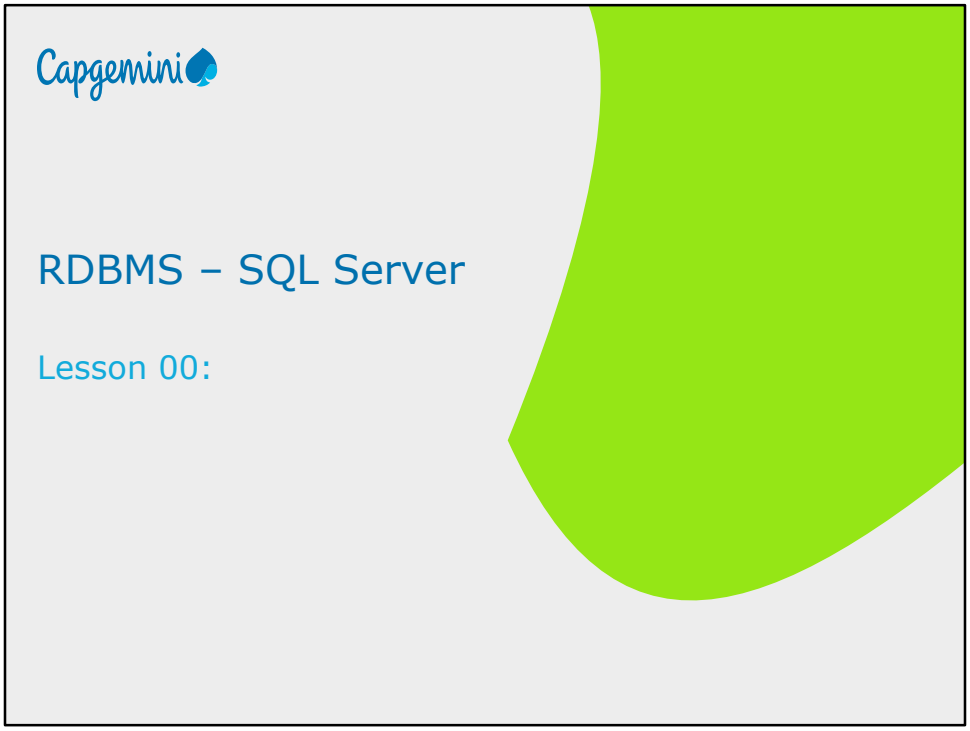
Instructor Notes:



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Instructor Notes:

Document History

12 June 2008	1.0	SQL server 2005	Kishori Khadilkar Vaishali Kunchur	Newly Created
8 Sept 2009	1.1	SQL server 2005	Kishori Khadilkar Vaishali Kunchur	Revamped using new template Incorporated review comments
10 July 2011	2.0	SQL Server 2005	Latha S.	Changes in material made based on integration process
30 March 2012	2.1	SQL Server 2008 – Database Development	Shilpa Bhosle	Changes in Class Book are made as an upgrade to SQL Server 2008
12 July 2013	2.2	SQL Server 2012 new features incorporated	Hareshkumar Chandiramani & Shashank Saudagar	Upgraded from SQL Server 2008 to SQL Server 2012. Rearranged flow of Topics.
11 May 2015	2.3	SQL Server 2012 new features and enhanced for ELTP curriculum	Vaishali Kasture	Rearranged flow of topics
5 May 2016	2.4	SQL Server 2012	Shital Patil	Changes in material made base on integration process as per Capgemini Course Structure

Instructor Notes:

Course Goals and Non Goals

- Course Goals
  - Understanding database concepts
  - How to use T-SQL statements for implementing database concepts
  - Writing Stored procedures and Triggers

Instructor Notes:

Course Goals and Non Goals

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

Instructor Notes:

Intended Audience

- Developers.

Instructor Notes:

Day Wise Schedule

- Day 1
  - Lesson 1: Working with Data Types, DDL ,DML and DCL statements
- Day 2
  - Lesson 2: Beginning with Transact-SQL
  - Lesson 3: Working with Joins and Subqueries
  - Lesson 4: Database Objects: Indexes & Views
- Day 3
  - Lesson 4: Database Objects: Indexes & Views
  - Lesson 5: Procedures
  - Lesson 6: Implementing Triggers
  - Lesson 7: SQL Server Profiler

Instructor Notes:

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- Lesson 1: Working with Data Types, Tables & Data Integrity
  - Working With Data Types
  - Working With Schema
  - Working With Tables
  - Implementing Data Integrity
- Lesson 2: Beginning with Transact-SQL
  - Transact-SQL
  - System Functions
- Lesson 3: Working with Joins and Subqueries
  - What are Joins?
  - Types of joins

Instructor Notes:

Table of Contents

- Lesson 4: Database Objects :Indexes & Views
  - Introduction to Index in SQL Server
  - Introduction to Views in SQL Server
- Lesson 5: Procedures
  - Stored Procedure
  - Implementing Stored Procedure
  - Exception handling using TRY-CATCH
- Lesson 6: Implementing Triggers
  - Introduction to Triggers
  - Defining Triggers
  - How Triggers Work
- Lesson 7: SQL Server Profiler
  - SQL Server Profiler
  - Working with SQL Server Profiler in SQL Server Management Studio

Instructor Notes:

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

Instructor Notes:

Next Step Courses

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

Instructor Notes:

Other Parallel Technology Areas

- Oracle
- MySQL