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Next Generation IT Education Systems

Introduction:

Database Management Systems DBMS are specialized software engine used to store business application data. In modern age, almost all organization, regardless of their size uses software applications to store business data. Hence business data in database software engine has become critical asset of company. Security and availability of business data is extremely important and challenging tasks within IT infrastructure of companies. Companies hire specialized resources to manage their critical database management system. Moreover companies use reputable software for their business critical data.

MS SQL Server is one of the leading database management software engine and widely used in backend of critical software application all over the world. MS SQL server gains its popularity in recent years and there are huge requirements of professionals, who can manage MS SQL server. Companies always offer very attractive salary packages for their database management software professional and never compromise on this job role.

Oralogic Education Systems provide best education services for MS SQL server 2014 skills. Our aim is to develop complete skill set with hands-on experience of our student to meet the industry requirements.

Course Contents:

1: Introduction to SQL Server 2014 Database Administration

This module introduces the Microsoft SQL Server 2014 platform. It describes the components, editions, and versions of SQL Server 2014, and the tasks that a database administrator commonly performs for a SQL Server instance.

- Database Administration Overview
- Introduction to the SQL Server Platform
- Database Management Tools and Techniques

2: Installing and Configuring SQL Server 2014.

This module explains how to assess resource requirements for SQL Server 2014 and how to install it.

- Planning SQL Server Installation
- Installing SQL Server 2014
- Post-Installation Configuration

3: Working with Databases and Storage

This module describes how data is stored in databases, how to create databases, how to manage database files, and how to move them. Other tasks related to storage, include managing the tempdb database and using fast storage devices to extend the SQL Server buffer pool cache, are also discussed.



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- Introduction to Data Storage with SQL Server
- Managing Storage for System Databases
- Managing Storage for User Databases
- Moving Database Files
- Configuring the Buffer Pool Extension

4: Planning and Implementing a Backup Strategy

In this module, you will consider how to create a backup strategy that is aligned with organizational needs, and learn how to perform the backup operations required by that strategy.

- Understanding SQL Server Recovery Models
- Planning a Backup Strategy
- Backing up Databases and Transaction Logs
- Using Backup Options
- Ensuring Backup Reliability

5: Restoring SQL Server 2014 Databases

In this module, you will see how to restore user and system databases and how to implement point-in-time recovery.

- Understanding the Restore Process
- Restoring Databases
- Advanced Restore Scenarios
- Working with Point-in-Time Recovery

6: Importing and Exporting Data

In this module, you will briefly explore tools and techniques so that you can import and export data to and from SQL Server.

- Introduction to Transferring Data
- Importing and Exporting Table Data
- Copying or Moving a Database

7: Monitoring SQL Server 2014

This module explains how to use three of the most commonly used tools: Activity Monitor, dynamic management views and functions (DMVs and DMFs), and Performance Monitor.

- Introduction to Monitoring SQL Server
- Dynamic Management Views and Functions
- Performance Monitor

8: Tracing SQL Server Activity



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This module describes how to use SQL Server Profiler and SQL Trace stored procedures to capture information about SQL Server, and how to use that information to troubleshoot and optimize SQL Server workloads.

- Tracing SQL Server Workload Activity
- Using Traces

9: Managing SQL Server Security

In this module, you will be learn about the core concepts on which the SQL Server security architecture is based, and how to manage security at the server and database levels.

- Introduction to SQL Server Security
- Managing Server-Level Security
- Managing Database-Level Principals
- Managing Database Permissions

10: Auditing Data Access and Encrypting Data

This module describes the available options for auditing in SQL Server, how to use and manage the SQL Server audit feature, and how to implement encryption.

- Auditing Data Access in SQL Server
- Implementing SQL Server Audit
- Implementing SQL Server Audit

11: Performing Ongoing Database Maintenance

This module describes common database maintenance tasks that a DBA must perform, and demonstrates how to automate these tasks using maintenance plans.

- Ensuring Database Integrity
- Maintaining Indexes
- Automating Routine Database Maintenance

12: Automating SQL Server 2014 Management

This module describes how to use SQL Server Agent to automate jobs, how to configure security contexts for jobs, and how to implement multi-server jobs.

- Automating SQL Server Management
- Implementing SQL Server Agent Jobs
- Managing SQL Server Agent Jobs
- Managing Job Step Security Contexts
- Managing Jobs on Multiple Servers

13: Monitoring SQL Server 2014 by Using Alerts and Notifications



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This module covers the configuration of database mail, alerts, and notifications.

- Monitoring SQL Server Errors
- Configuring Database Mail
- Configuring Operators, Alerts, and Notifications

Other Information:

Course #	MSSQL01
Course Name	Administering Microsoft® SQL Server® 2014 Databases
Duration / Class	4 Weeks / three classes a week 1.5 hours
Fee	25,000/- PKR