MOC 10988 C: Managing SQL Business Intelligence Operations

Course Summary

Description

This three-day instructor-led course is aimed at database professionals who manage Business Intelligence (BI) operations. This course looks at various options that provide the ability of business users to analyze data and share their findings, starting with managed BI data sources and expanding to personal and external/public data sources.

Objectives

By the end of this course, students will be able to:
- Describe key features of a self-service BI solution
- Describe the key capabilities of SQL Server BI in a SharePoint environment
- Describe common Analysis Services operational tasks
- Describe PowerPivot for SharePoint server
- Describe Power Query
- Describe Windows Azure HDInsight

Topics

- Introduction to Operational Management in BI Solutions
- Configuring BI Components
- Managing Business Intelligence Security
- Deploying BI Solutions
- Logging and Monitoring in BI Operations
- Troubleshooting BI Solutions
- Performance Tuning BI Queries

Audience

The primary audience for this course is business intelligence professionals. The secondary audience for this course is technically proficient business users.

Prerequisite

In addition to their professional experience, students who attend this training should already have the following technical knowledge:
- Some basic knowledge of data warehouse schema topology (including star and snowflake schemas)
- Some exposure to basic programming constructs (such as looping and branching)
- An awareness of key business priorities such as revenue, profitability, and financial accounting is desirable.
- Familiarity with SharePoint Server and Microsoft Office applications – particularly Excel

Duration

Three days
Course Outline

I. Introduction to Operational Management in BI Solutions
   This module is designed to set the scene for the rest of the course.
   A. Rationale for BI Operations
   B. Roles in BI Operations
   C. Technologies Used in BI Operations
   D. Environment and Operational Standards
   Lab: Introduction to Operational Management in BI Solutions

II. Configuring BI Components
    This module focuses on optimizing the data platforms on which the BI solutions reside, adhering to best practice to meet the requirements of the business.
    A. The Importance of Standardized Builds
    B. Configuration Considerations for BI Technologies
    C. BI Architectures
    D. SharePoint BI Environments
    Lab: Configuring BI Components

III. Managing Business Intelligence Security
     This module discusses how managing the security of data within an organization should be the first priority for any operational team.
     A. Security Approach to BI Solutions
     B. Security Components
     C. Security Approach for BI Components
     D. The Security Approach in Different BI Environments
     E. Lab: Managing Business Intelligence Security

IV. Deploying BI Solutions
    This module helps you to understand the tools that are available and the benefits they offer
    will help you to pick the right tool for the job and aid deployment.
    A. Application Life Cycle Management for BI Solution
    B. Stand-Alone Deployments
    C. Team-Based Deployments
    Lab: Deploying BI Solutions

V. Logging and Monitoring in BI Operations
    This module introduces techniques to ensure the continued service of key applications that are used within the business.
    A. The Need for Logging and Monitoring
    B. Logging Options
    C. Monitoring Options
    D. Setting Up Alerts
    Lab: Monitoring BI Solutions

VI. Troubleshooting BI Solutions
    This module introduces techniques to troubleshoot failed BI operations.
    A. Troubleshoot Failed BI Solutions
    B. Troubleshooting the Data Warehouse
    C. Troubleshooting SQL Server Analysis Services
    D. Troubleshooting SQL Server Reporting Services
    Lab: Troubleshooting BI Solutions

VII. Performance Tuning BI Queries
     This module introduces tuning the query aspects of the BI solution to improve performance.
     A. The Need for Performance Tuning
     B. BI Queries to Performance Tune
     C. Tools for Performance Tuning
     D. Remediating Performance Issues
     Lab: Performance Tuning a BI Solution

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