

Course Brochure

MS-BI 2014

Overview

• Business is method of a storing and presenting key enterprise data so that anyone in your company can quickly and easily ask questions of accurate and timely data. Business analyst will drill in to the detailed data, executives will see timely summarized data and managers will see different levels of data they need to make good business decisions.

Pre-requisites

• Knowledge of RDBMS concepts and SQL Language (DDL, DML, DCL)

Applications

COURSE CONTENTS

- ❖ Need of Business Intelligence
- ❖ Failures of the Existing Systems
- ❖ Dataware House Models
- ❖ Building Stages of Dataware House
- ❖ DWH Life Cycle- DWH Architecture
- ❖ ETL and OLAP Tools
- ❖ BI Products Availability
- ❖ Microsoft BI in the Market

SQL Server Integration Services

Development

- ❖ Introduction to ETL Concepts
- ❖ Packages Development using SSIS Wizard
- ❖ SSIS Designer Introduction
- ❖ Control flow Items
 - Tasks
 - Containers
- ❖ Data Flow Items
 - Sources
 - Transformations
 - Destinations
- ❖ Usage of Built-in Functions
- ❖ Parameters & Variables in SSIS
- ❖ .Net Scripting in SSIS
- ❖ Transaction with Data Quality Services
- ❖ Working with Data Quality Services

Errors and Debugging SSIS

- ❖ Events Handlers
- ❖ Configure Error Output
- ❖ Data Viewers
- ❖ Break Points
- ❖ Log Providers
- ❖ Check Point Usage

SSIS Administration

- ❖ Deployment
- ❖ Configuration
- ❖ Security
- ❖ Executing of Packages Manually
- ❖ Scheduling SSIS Packages
- ❖ Importing and Exporting Packages
- ❖ Monitoring and Tuning Techniques in SSIS

DWH with SSIS

- ❖ Dimension Tables Data Loading
- ❖ Fact Tables Data Loading

SQL Server Reporting Services

Introduction to SSRS

- ❖ Need of Reporting Services
- ❖ Reporting Life Cycle
- ❖ Types of Reports
- ❖ Data Sources
- ❖ Data Sets
- ❖ Designing of Report using Report Wizard
- ❖ Introduction to Report Designer

Report Authoring

- ❖ Report Items
- ❖ Expressions in SSRS
- ❖ Report Layout Sections
- ❖ Designing of Reusable Templates
- ❖ Working with Data Regions

COURSE CONTENTS

Advanced Authoring

- ❖ Use of Parameters in Reports
- ❖ Drill Down Reports
- ❖ Sub Reports
- ❖ Filters in SSRS
- ❖ Actions in SSRS
- ❖ .NET Scripting in SSRS
 - Embedded Scripting
 - External Scripting
- ❖ Variables in SSRS
- ❖ Working with Different Report Items
 - Tables
 - List
 - Image
 - Matrix
 - Chart
 - Guage
 - Indicators

SSRS Administration

- ❖ Configuration of Reporting Services
- ❖ Deployment Methods
- ❖ Security in SSRS
- ❖ Subscriptions
- ❖ Windows File Share
- ❖ Email
- ❖ Processing Options
- ❖ Snapshots
- ❖ Caching
- ❖ Working with Shared Schedules

Adhoc Reports Developments

- ❖ Using Report Builder
- ❖ Report Model Designing

SQL Server Analysis Services

- ❖ Need of Analysis Services
- ❖ Multi Dimension Analysis
- ❖ Designing of Cubes

Developing Cubes

- ❖ Cube Designer
- ❖ Dimension Usage
- ❖ Aggregations and Partitions
- ❖ Calculations and Kpi's
- ❖ Actions
- ❖ Perspectives & Translations
- ❖ Write- Back Features
- ❖ Reporting in Excel and SSRS by using Cubes

MDX Language

- ❖ Introduction to MDX language
- ❖ Tuple and sets
- ❖ MDX Queries
- ❖ MDX expressions
- ❖ MDX Scripts
- ❖ Built-in Functions

Reporting Using Analysis Services

- ❖ Using SSRS with Analysis Services
- ❖ Excel Reports
- ❖ Power View

SSAS Administration

- ❖ Deployment
- ❖ Processing
- ❖ Security
- ❖ Backup and Restore
- ❖ With Real Time Scenarios