

MSBI COURSE CONTENT
(SSIS, SRRS, SSAS and SQL Server)
(40 hrs. of Training)

T-Sql Basics	5 hrs.
Integration Services	15 hrs.
Analysis Services	5 hrs.
Reporting Services	15 hrs.
DWH & Modeling	2 hrs.

Course Highlights

- ✓ Daily 1:30 Min of Session
- ✓ Practical / Job oriented training.
- ✓ Detailed presentation in class and working on exercises on each topic
- ✓ Real time project scenarios
- ✓ Resume Preparation
- ✓ Mock interviews
- ✓ One to One training sessions, classes will be conducted online.
- ✓ Evaluation and feedback on class assignments
- ✓ Phone Interview support for the trained candidates.
- ✓ Initial job support.
- ✓ Job assured within 1 month of training.

Pre Requisites:

Some knowledge of SQL and windows operating systems.

Able to spend 2 hour per day.

Weekend batches also available.

Please drop me an e-mail at kumarmsbi33@gmail.com for any inquiry OR

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1. MSBI and Competitiveness

- What is BI, MSBI, SSBI, and Importance in the current Enterprise?
- MSBI 2012Vs Others (2008 R2, 2008, 2005, 2000), Installation Process.

2. Tools & Utilities to work with MSBI

SSDT, BIDS, SSMS, DQS Client/Server/Installer, Command Line Tool.

Command Line Utilities

- DTUTIL
- DTUTIL EXE
- RS
- RSCONFIG
- ASCMD etc...

3. Data warehousing fundamentals

- Definitions
- Characteristics
- Approaches
- Life Cycle
- Data Mart & Types
- Data Processing Types
- Granularity
- Diff between OLTP and OLAP

4. Data and Dimensional Modeling Fundamentals

- Dimension
- Fact
- Measure
- Measure Types
- Dimension Types
- Member
- Star , Snow Flake ,Galaxy, Hybrid Schema
- Fact less fact table etc...

SQL SERVER INTEGRATION SERVICES

SSIS Logical & Physical Architecture and Components

- What is SSIS Detailed logical architecture and components.
- SSIS-Tool Walk through, 2012 newly added features, disconnected features etc...
- SSIS Practical architecture (Solution,Project,Package)
- Connection Managers , Shared Data Sources, Parameters(2012)

5. Control Flow Tasks and Operations

- For Each loop

- For loop
- Sequence
- File System
- Execute Sql
- Analytical Processing
- Transfer database
- Script
- Backup database
- Execute Package
- Expression(2012)

6. Data Flow Task and Transformations

Objective of dataflow task and memory model

Transformations such as

- Aggregate
- Merge
- Merge Join
- Union All
- Multicast
- Conditional Split
- Lookup
- Fuzzy lookup and Grouping
- Derived column
- Copy Column
- Data Conversion
- Pivot
- Sort
- Term Extraction & Look Up
- CDC
- Data Cleansing(2012)

7. Debugging, Logging and Event handling

- Various ways of Debugging and SSIS packages.
- Logging, Log Providers and Catalog Logging (2012) & explaining in detail.
- Handling Errors, Exceptions and custom error handling.

8. Implementing SCDs, CDC, Configurations and Parameters

- Configuring SSIS packages (various ways), Checkpoints, Implementing Transactions.
- Implementing Slowly Changing Dimensions
 - a. Type 1
 - b. Type2
 - c. Type3
- Manual Implementation of SCDs, Incremental (Delta) Loading.

9. Security, Deployment and Jobs

- Security in various ways (Password protection & Role based security).
- Deployment(Project and Package)

- a. File
- b. Sql Server
- c. SSISDB (2012) deployment.
- Creating, monitoring the jobs and real time schedulers and explanation.

10. Bottlenecks, Performance Tuning

- Bottleneck , various ways to identify bottlenecks
- Tuning Source, Destination, Transformation, Package and System level.

Sql Server Analysis Services

1. MSBI 2012 BISM (Business Intelligence Semantic Model)

- Overview of SSBI, Multidimensional Model & Tabular Model
- Power pivot for Excel and SharePoint
- What is SSAS and OLAP Types OLAP, MOLAP, ROLAP, DOLAP, HOLAP?
- Sample project, Modeling, Designing & Solution

2. Multidimensional Analysis model and components

- Developing Analysis Services Multidimensional Solution.
- Creating a Cube, Deployment and Processing of cube
- Working with Measures, Measure Groups, Members and Dimensions

3. Working with MDX

- DDL, DML, Functions, Operators, Commands, Keywords etc...
- Explaining with various queries and examples.

4. Working with Cube and its Functionalities

- Implementing Key Performance Indicators and Actions.
- Implementing Perspectives/Translations.
- Working with Dimensions Usage Wizard (Regular, Referenced, Fact etc...)
- Configuring Dimensions, Hierarchies, Creating Linked, Scenario Dimension.
- Implementing Partitions (Table and Query), Storage modes and Proactive Caching.
- Working with Designing Aggregations, Usage based optimization.
- Working with Named Query, Named Calculation, Calculated Measures and Members.
- Facts and Dimension processing options (Full, Default, Recalc, Update etc...)

5. Data Analysis Extensions and Basics

6. Deploying (6 ways), Securing & Optimizing SSAS

7. SSAS Cube and MDX Performance tuning.

8. Tabular Model Concepts

- Workspace Database, Workspace Server , Direct Query , Backup to disk

- Installation steps , error mechanisms and error rectification process
- Creating a tabular model and setting model properties
- Adding data to the model , renaming tables , filtering columns
- Rename Columns
- Monitoring relationships, Providing relationships
- Create Hierarchies
- Create partitions
- Create perspectives
- Create Roles
- Create KPIs
- Deployment
- Using in Excel Power pivot and Power View

Sql Server Reporting Services

1. SSRS Architecture and Components

- What is SSRS, Need of SSRS and Other Reporting Components & Report Life Cycle?
- SSRS-2012 additional Features , SSRS new architecture and components

2. SSRS Administration (Tools and Configuration files) and Management

- Working with RS Manager Configuration Tool and Configuration Files
- Report manager/Server/Database Creation and Monitoring, Start/Stop

3. Working with various Report facilities

- Report Server Wizard
- Report Server Project
- Report Builder

4. Creating different reports and managing

- Table
- Matrix
- Chart
- List
- Gauge
- Sub Report
- Rectangle
- Map
- Bar
- Indicator
- Sparkline

Creating a report from

- OLAP cubes
- RDBMS
- XML
- Excel Sources

- Stored Procedures

Working with

- Sub totals / Full totals
- Page Breaks
- Page Footer /Header
- Table Header/Footer
- Sorting
- Grouping
- Applying Colors, Fonts etc.

Implementing various Report Actions, expressions

Variables (Report and Group), calculated members, Query Fields

5. Working with Drill Down, Drill Through

6. Ad Hoc Reporting, Report models and Report Builder (1.0, 2.0, 3.0)

7. Parameterized Reports

- Non Queried
- Queried
- Multivalued
- Cascading

8. Publishing and Executing Reports

- Creating cached Instances
- Creating snapshots and report history

9. Report Parts

- Creation of Report Parts
- Using Report Parts
- Managing Report Parts

10. Creating Subscriptions, Delivery & Optimization

Normal, Data Driven and Null Subscription, E mail and File Share delivery

Tuning of SSRS, Components and Query Optimization