



MSBI Course Agenda

MICROSOFT BI AGENDA

OBJECTIVES:

- Data Integration using SSIS
- Data Analysis using SSAS
- Data Reporting using SSRS

DURATION:

- 7 days
 - Data Integration Fundamentals: 2 days
 - Data Analysis Fundamentals: 2 day
 - Data Reporting Fundamentals: 2 days
 - Workshop: 1 day

TOPICS:

- Data Integration fundamentals
 - Understanding data
 - Understanding Data Integration
 - Challenges with Data Integration
 - SSIS - Data Integration terminologies
 - Metadata
 - Data Flow
 - Transformations
 - Control Flow
 - Developing ETL jobs
 - Data Flow Sources
 - Data Flow Transformations
 - Data Flow Sources
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 - Integration tasks
 - Logging, Error handling, Debugging
 - Deploying, Scheduling, Reusability
- Data Analysis fundamentals
 - Understanding Data warehousing and dimensional modeling
 - OLAP modeling concepts
 - Working with SSAS
 - Working with Data sources

- Creating cubes using SSAS
- Creating KPI's, cube perspectives
- Introduction to MDX queries

- Data Reporting fundamentals
 - Understanding reporting concepts
 - SSRS and its advantages
 - Connecting to data sources
 - Creating basic reports
 - Report Processing
 - Parameterization
 - Reporting analytics: Filtering, Grouping, Sorting, Drilling
 - Deploying reports

- Workshop

Attendees will be presented with a final Report requirements and corresponding data sources. Based on their requirement analysis, attendees will have to:

 - Create Data Warehouse design and build SSIS processes
 - Create a cube for data optimization
 - Build the report from Data Warehouse and cubes
 - Performance tuning, if needed

SOFTWARE:

Following products can be used to cover the above topics:

- Microsoft SQL Server 2016 with following features enabled:
 - Microsoft SQL Server Integration Services (SSIS)
 - Microsoft SQL Server Analysis Services (SSAS)
 - Microsoft SQL Server Reporting Services (SSRS)

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