



Power BI Course Curriculum

1. Introduction to Power BI

- Business Intelligence
- Self Service Business Intelligence
- SSBI Tools
- Power BI vs Tableau vs QlikView
- What is Power BI
- Why Power BI?
- Key Benefits of Power BI
- Flow of Power BI
- Components of Power BI
- Architecture of Power BI
- Building Blocks of Power BI

2. Power BI Desktop and Data Transformation

- Overview of Power BI Desktop
- Data Sources in Power BI Desktop
- Connecting to a data Sources
- Query Editor in Power BI
- Query Ribbon
- Clean and Transform your data with Query Editor
- Combining Data – Merging and Appending
- Cleaning irregularly formatted data
- Views in Power BI Desktop
- Modelling Data
- Manage Data Relationship
- Automatic Relationship Updates
- Template Apps
- Cross Filter Direction
- Create calculated tables and measures
- Optimizing Data Models
- PBIDS Files



3. Data Analysis Expressions (DAX)

- Essential concepts in DAX
- Why is DAX important?
- DAX Syntax
- Data Types in DAX
- Ranking and rank over groups
- Filter and evaluation context
- Context interactions
- Calculation Types
- DAX Functions
- Measures in DAX
- DAX Operators
- DAX tables and filtering
- DAX queries
- Create simple and compound measures
- Schema relations
- Star schema design
- DAX Parameter Naming

4. Data Visualization

- Introduction to visuals in Power BI
- Charts in Power BI
- Matrixes and tables
- Slicers
- Map Visualizations
- Gauges and Single Number Cards
- Create scatter, waterfall, and funnel charts
- Modifying colors in charts and visuals
- Shapes, text boxes, and images
- What Are Custom Visuals?
- Page layout and formatting
- KPI Visuals
- Z-Order
- Explore time-based data
- AppSource



5. Introduction to Power BI Service, Q&A and Quick Insights

- Introduction to Power BI Service
- Introduction to using workspaces
- Dashboard vs. Reports
- Quick Insights in Power BI
- Creating Dashboards
- Configuring a Dashboard
- Power BI Q&A
- Ask questions of your data with natural language
- Power BI embedded
- Create custom Q&A suggestions
- Edit tile details and add widgets
- Build apps
- Integrate OneDrive for Business with Power BI

6. Connectivity Modes

- Introduction to using Excel data in Power BI
- Exploring live connections to data with Power BI
- Connecting directly to SQL Azure, HD Spark, SQL Server Analysis Services/ My SQL
- Introduction to Power BI Development API
- Import Power View and Power Pivot to Power BI
- Data caching and refresh
- Introducing Power BI Mobile

7. Power BI Report Servers

- Report Server Basics
- Web Portal
- Paginated Reports
- Row level Security
- Data Gateways
- Scheduled Refresh
- Configure scheduled refresh
- Create a publish-to-web embed code



- Customize the sample Power BI file

8. Using R & Python in Power BI

- R Integration in Power BI Desktop
- R visuals in Power BI
- R Powered Custom Visuals
- Creating R visuals in Power BI
- R Visuals in Power BI Service
- R Scripts Security
- Creating visual using Python

9. Advanced Analytics in Power BI

- Using Parameters
- Create a data flow
- Introduction to Anomaly Detection
- Introduction to Smart Narrative
- Introduction to Sensitivity labels in Power BI
- Deployment Pipeline

10. Projects & Resume Preparation....



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