Power BI Course Content

Course Description:

Microsoft Power BI tool provides cloud-based business intelligence analytic services, interactive visualizations, and a desktop-based interface for end-user to create their own reports and dashboards. Power BI ecosystem comprises of Power BI Desktop, Power BI Service, Power BI Mobile Apps, Power BI Gateway, Power BI Embedded, Power BI Report Server and Power BI Visuals Marketplace.

Different job roles with Power BI suite are Power BI Data analyst, Power BI Developer, Power BI Software Engineer, Power BI Analyst, Senior Software Engineer, Senior Business Intelligence Analyst, and Power BI Business Analyst (IT).

Power BI suite is the leader of the BI tools because it analyzes the data with greater speed, efficiency, execution, and complete vision. Demand for the Power BI increasing data analyzing field because the analytic process is simple and flexible. One without having any prior knowledge in data analysis can also learn easily and have a strong career path in top companies and the IT industry with the Power BI platform.

Course Content:

Power BI Components
- Components of PowerBI suite including PowerBI for Desktop, PowerBI mobile app, Server, Gateway

Business Transformation
- How PowerBI will transform your data and business?

Feature to manage & utilize data
- Power BI desktop features and managing and utilizing data with it to get Data from many sources

Creating Customized Data
- How to custom and create data visualizations and style reports for lucid data representation

PowerQuery Usage
- ETL process using PowerQuery such as Transforming, Cleaning, Merging, Custom Visuals & Native Visuals

Data Modeling Relationships
- Data Modeling Relationship concepts like Star Schema and Snowflake Schema and Natural Query language

Data modeling with Power BI
- Connecting data from different sources and data modeling with PowerBI to enhance your business

Power BI functions
- Dax Functions like Filter Functions, Time Intelligence Functions, Aggregate Functions, and Measures etc.

Reports embedding with DAX

- Embedding Reports with DAX Functions and learn how to share and collaborate data using Power BI

Learning PowerPivot
- What is PowerPivot for Excel
- Importing Your Data PowerPivot
- Creating a PowerPivot Data Model
- Creating PivotTables with PowerPivot
- Creating a Date Table
- Using Slicers to Filter Data

Connecting Slicers to more than one PivotTable
- Using Charts and Slicers to create interactive Dashboards
- Using DAX in PowerPivo
- Creating Calculated Columns
- Creating Calculated Fields
- Implicit and Explicit Calculated Fields
- Using DAX aggregate functions in a PowerPivot PivotTable
- Using Count Rows and Distinct Count Functions
- The difference between evaluations using Row Context and evaluations using Filter Context

Advanced DAX functions
- SUMX and CALCULATE
- Time Intelligence Functions
- Creating Key Performance Indicators
- Using PowerPivot Sets

Power Query
- Adding Data to Power Query from various data sources
- Creating a Query, the Query Editor Window
- Load to Worksheet and Load to Data Model
- Remove Duplicate Data in Columns
- Split and Merge Columns of Data
- Group data to create summary Queries
- Merge and Append Queries
- Transpose Data to swap Rows and Columns
- Filling data Down to populate missing values
- Unpivot Columns: flatten a "cross tab" table
- Duplicate Columns, Creating Custom Columns and Additional Date Columns
- Working with Applied Steps
- Importing Data From a Folder

Power View
- The Power View Field List
- Using Text Boxes
- Creating Tables
- Changing Table Visualisations
- Using a Matrix and Enable Drill Down

- Using Cards; Setting up Titles and Pictures for Cards
- Creating Chart Visualisations and Interactive Charts
- Creating Power View Slicers
- Using Tiles
- Using Power View Filters
- Working with interactive Bubble Charts using the Play Axis
- Creating Power View Maps

Power Maps
- Create a Power Map and Plot Geographic Data
- Creation Visualisation; Column, Bubble, Heat map, Regions
- Using the 3-D Environment
- Using Charts with Power Maps
- Working with Layers and adding Scenes
- Adding Annotations
- Visualizing Data over Time
- Playing the Tour