AISECT LEARN
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CERTIFICATE IN

POWER BI

COURSE **OVERVIEW**

- Get a basic understanding of Connecting to data
- Transforming data
- Creating a data model
- Working with DAX
- Visualizing data
- Power BI cloud
- Building line graphs, bar charts, and dashboards

COURSE **OBJECTIVE**

At the end of this course, you will master the following:

- Data Transformation
- M Language
- Power Query
- Power View
- Power BI Service- Cloud
- Power Pivot
- Report Server

SKILL YOU WILL **LEARN**

- Basic Power BI Tools
- Power View
- Power BI Cloud
- M Language
- Report Server

PROGRAM **HIGHLIGHTS**

- Instructor- Rishav Das
- Duration- 25 Hours
- Eligibility- Any Graduate
- No. of Modules- 20
- Placement Training- YES
- Language- English
- Sharable certificate- Yes
- Webinar- Yes
- No. of Live Session- 16

PROGRAM **SYLLABUS**

Power BI Introduction

- What is BI
- What is Power BI

- Different Products of Power BI
- Power BI Desktop
- Power BI Pro
- Power BI Premium
- Power BI Mobile
- Power Query - Introduction
- How to import data into Power Query from Excel file, Csv, Text Files ?
- How to import data into Power Query from MS Access file/ SQL, Oracle?
- How to import data into Power Query from Web, PDF, Exchange Online
- Loading data from Power Query back to Excel sheet, Power View
- What happens to Power Query data when output changes?

POWER QUERY **DATA TRANSFORMATION**

- Text Functions
- Upper, Lower, Sentence Case, Trim, Clean
- Add Prefix , Add Suffix
- Left, Right, Mid, Length, Number Functions, Addition, Subtraction, Di
- How to keep or remove - empty / duplicate rows, define header row, filter rows ?
- How to perform left, right, mid, len formulas on Text data inside Power Query ?
- How to perform addition, subtraction, multiplication, division inside Power Query ?
- How to get date related information like Day name, month name, Year, Quarter, etc.?
- Writing conditional IF type formulas inside Power Query using user interface.
- Power Query - Working on data from multiple sources
- No more manual copy and paste to append data from multiple sheets, files, etc.
- What does it means to Duplicate or reference a Power Query
- Creating dynamic inventory of all the files stored in a folder.
- Workaround for issue while sharing files with Power Query
- Power Query – Appending Data

POWER QUERY **LEARN BASICS OF M LANGUAGE**

- Fundamentals of M Language and its characteristics
- Learn using lot more M function

for Text
- How to use date function from M library
- Performing complex conditional logic with AND / OR logic checking
- Power Query - Apply your M Language knowledge
- Text files - ignore top / bottom rows and extract relevant data in the middle
- Prepare Calendar table by providing Start and End date with all other information
- Calculating ratio of Individual Sales to total sales inside Power Query
- Second approach to applying multiple filters on a single column

POWER VIEW **INTRODUCTION**

- What is Power View in Power BI ?
- Using Power BI Desktop Tool - Options
- Report Visuals, Fields, Pages and Filters
- Report, Data and Relationship Options
- Working with Visualizations and PBI Canvas
- Working with Enter Data, Get Data Options
- Enter Data from Excel Files, Basic Reports
- PBIX and PBIT File Formats. Differences
- Designing Simple / Basics Reports in PBI
- Visual Interactions in Power BI - Options
- Spotlight Options with Visuals, Real-time Use
- VIEW Options with Power BI Desktop Tool
- Web View and Mobile View Options, Scaling
- Table Visual and GRID Options for Display

POWER VIEW **HIERARCHIES**

- Grouping and Binning with Fields
- Bin Size and Biz Limits (Max, Min)
- Creating Hierarchies. DrillDown Reports
- Drill Thru Reports and Conditional Filters
- Expand, Expand All Down, Goto Next Level
- Drill Up, Drill Down. Exclude & Include
- See Data, Export Data, See Records Options
- Filters : Types and Usage in Real-time
- Visual Filters, Page Filters, Report Filters

- Drill-thru Filters with Hierarchy Levels
- Basic, Advanced, TOP N Filters - Usage
- Filtering at Category Level, Summary Level
- Import and Direct Query with Power BI

POWER VIEW
SUPPORTING ELEMENTS FOR VISUALIZATION

- Data Point and Series Limitations
- Tree Map, Funnel and Gauge Reports
- Group and Values in Tree Map Visuals
- Min. Max Values and Goal Indicators
- Single Row Card and Multi Row Cards
- Non-Interactive Visuals in Multi Row
- Call out values in KPI Reports and Use
- Indicator, Trend and Target Goals in KPIs
- Map Reports and Filled Map Reports
- ArcGIS Maps - Latitudes and Longitudes
- Using Buttons, Images in Power BI Canvas
- Bookmarks in Power BI Desktop - Usage
- Using Bookmarks with Buttons, Actions
- Using Bookmarks for Visual Filters
- Using Bookmarks for Page Navigations
- Using Selection Pane with Bookmarks
- Buttons, Images in Power BI Desktop

POWER BI SERVICE **CLOUD**

- POWER BI CLOUD (OPS)
- Power BI Service (Cloud) Architecture
- App Workspace Creation in Real-time
- Publish Reports from Power BI Desktop
- Reports, Datasets in Power BI Cloud
- Creating Dashboards and Realtime Use
- Pin Visuals and Pin LIVE Report Pages
- Dashboard Creation with Tiles, Media
- Tiles - Images, Web Content, Chapters
- Subscriptions, Insights and Refresh

POWER PIVOT - **INTRODUCTION**

- Importing Data
- Importing Data into Power Pivot
- Importing Data from Relational Databases
- Importing Data from Text Files
- Reusing Existing Connections to Update the Model
- Creating the Data Model
- What Is a Data Model ?
- Creating Table Relations
- Creating a Star Schema
- Understanding When to Denormalise the Data
- Creating Linked Tables
- Creating Hierarchies
- Making a User-Friendly Model
- Creating Calculations with DAX
- What Is DAX ?
- Implementing DAX Operators
- Working with Text Functions
- Using DAX Date and Time Functions
- Using Informational and Logical Functions
- Getting Data from Related Tables
- Using Math, Trig, and Statistical Functions
- Tips for Creating Calculations in Power Pivot
- Creating Measures with DAX
- Measures versus Attributes
- Creating Common Aggregates
- Mastering Data Context
- Altering the Query Context
- Using Filter Functions
- Creating KPIs
- Incorporating Time Intelligence
- Date-Based Analysis
- Creating a Date Table
- Time Period–Based Evaluations
- Shifting the Date Context
- Using Single Date Functions
- Creating Semi-additive Measure

REPORT **SERVER**

- 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

PREAL TIME INDUSTRY USE CASES TO BE COVERED **DURING ABOVE TOPICS**

- Sales Analytics Dashboard
- HR Analytics Dashboard
- Business insights Dashboard
- Business insights Dashboard
- Customer sentiment Dashboard
- Productivity Dashboard Analytics
- Quality Analyst Dashbaords (KPI)

CAREER **GROWTH**

- Resume Writing Skills
- Building projects for interview
- Mock interviews
- Interview tips and profile improvements

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