IT TECHNOLOGY

Training & Placement

(Real Time Software Training Institute)

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POWER BI COURSE
REALTIME & JOB ORIENTED TRAINING PROGRAM
BY REAL TIME INDUSTRY EXPERT (15 Years Exp)
2 REAL TIME SCENARIO BASED PROJECTS

POWER BI online & offline hands -on training program conducted by well qualified and subject matter experts. Training program covers 100% end-to-end complete in-depth concepts with Real-time scenario-based Automation project.

FACULTY   :CHANDRASEKAR SIR (15 YEARS EXPERIENCE)
DURATION   : 2MONTHS

MINI PROJECTS   : 2 PROJECTS.

Power BI Complete Introduction

➤ **Power BI Introduction**

➤ **Data Visualization, Reporting**

➤ **Business Intelligence(BI), Traditional BI, Self-Serviced BI**

➤ **Cloud Based BI, On Premise BI**

➤ **Power BI Products**

➤ **Power BI Desktop (Power Query, Power Pivot, Power View)**

➤ **Flow of Work in Power BI Desktop**

➤ **Power BI Report Server, Power BI Service, Power BI Mobile**

➤ **Flow of Work in Power BI / Power BI Architecture**

➤ **A Brief History of Power BI**

PBI Desktop Installation, PBI Desktop & Service Overview :

- ➢ **Power BI Desktop Installation**

- ➢ **Building Blocks of Power BI**

- ➢ **Datasets, Visualizations, Reports, Dashboards, Tiles**

- ➢ **Power BI Desktop User Interface**

- ➢ **Fields Pane, Visualizations pane, Ribbon, Views, Pages Tab, Canvas**

- ➢ **Overview of Power Query / Query Editor – Extract, Transform & Load Data**

- ➢ **Connecting to Data Sources, Establish connection to the Excel source**

- ➢ **Importing Data into Power BI or Query Editor**

- ➢ **Transforming the Data using Power Query**

- ➢ **Model the Data using Power Pivot – Relationship View**

- ➢ **Creating New Measures and New Columns using DAX – Data View**

- ➢ **Visualizing the Data using Power View and Power Maps – Report View**

- ➢ **Saving and Publishing the Visuals or Reports**

- ➢ **Logon to Power BI Service**

- ➢ **View the Reports in PBI Service and Share the reports**

Power Query:

Introduction to Power Query – Extract, Transform & Load

➢ Data Transformation, Benefits of Data Transformation

➢ Shape or Transform Data using Power Query

➢ Overview of Power Query / Query Editor, Query Editor User Interface

➢ The Ribbon (Home, Transform, Add Column, View Tabs)

➢ The Queries Pane, The Data View / Results Pane, The Query Settings Pane, Formula Bar

➢ Advanced Editor – Complete ETL Code

➢ Saving Your Work – Appling ETL Changes – Loading into Power Pivot Model

➢ Power Query Conceptually

Datatypes and Filters in Power Query

Inbuilt Column Transformations

➢ Header Row or Use First Row as Headers

➢ Keep Top Rows, Keep Bottom Rows

➢ Keep Range of Rows

➢ Keep Duplicates, Keep Errors

➤**Append Queries as New**

➤**Append 2 or more files individually with different queries**

➤**Appending multiple files of same type from a folder using single query**

➤**Query Options**

➤**Copy Query, Paste Query**

➤**Delete Query, Rename Query**

➤**Enable Load, Include in report Refresh**

➤**Duplicate Query, Reference Query**

➤**Move to Group, Move Up, Move Down**

Merge Queries / Join Queries

➤**Remove Top Rows, Remove Bottom Rows, Remove Alternative Rows**

➤**Remove Duplicates, Remove Blank Rows, Remove Errors**

➤**Group Rows / Group By**

Combine Queries (Append Queries & Merge Queries)

Append Queries / Union Queries

➤**Append Queries.**

Power Pivot :

Power BI Data Modeling – Relationship View

➢ **Data Modeling Introduction**

➢ **Relationship, Need of Relationship**

➢ **Relationship Types / Cardinality in General**

➢ **One-to-One, One-to-Many (or Many-to-One), Many-to-Many**

➢ **AutoDetect the relationship, Create a new relationship, Edit existing relationships**

➢ **Make Relationship Active or Inactive**

➢ **Delete a relationship**

➢ **Cross filter direction (Single, Both), Assume Referential Integrity**

Enhancing the Data Model – DAX

➢ **What is DAX, Calculated Column, Measures**

➢ **DAX Table and Column Name Syntax**

➢ **Creating Calculated Columns, Creating Measures**

➢ **Implicit Vs Explicit Measures**

➢ **Calculated Columns Vs Measures**

➢**DAX Syntax & Operators**

➢**DAX Operators**

➢**Types of Operators**

➢**Arithmetic Operators, Comparison Operators, Text Concatenation Operator, Logical Operators**

DAX Functions Categories

➢**Date and Time Functions**

➢**Logical Functions ⬚ Text Functions**

➢**Math & Statistical Functions**

➢**Filter Functions**

➢**Time Intelligence Functions**

DAX Date & Time Functions

➢**YEAR, MONTH, DAY**

➢**WEEKDAY, WEEKNUM**

➢**FORMAT (Text Function)**

➢**Month Name, Weekday Name**

➢**DATE, TODAY, NOW**

➢**HOUR, MINUTE, SECOND, TIME**

➢**DATEDIFF, CALENDAR**

➢**Creating Date Dimension Table**

DAX Text Functions

➢**LEN, CONCATENATE (&)**

➢**LEFT, RIGHT, MID**

➢**UPPER, LOWER**

➢**TRIM, SUBSTITUTE, BLANK**

DAX Logical Functions

➢**IF**

➢**TRUE, FALSE**

➢**NOT, OR, IN, AND**

➢**IFERROR ⬚ SWITCH**

DAX Math and Statistical Functions

➢**INT**

➢**ROUND, ROUNDUP, ROUNDDOWN**

➢**DIVIDE**

➢**EVEN, ODD**

➢**POWER, SIGN**

➢**SQRT, FACT**

➢**SUM, SUMX**

➢**MIN, MINX**

➢**MAX, MAXX**

➢**COUNT, COUNTX**

➢**AVERAGE, AVERAGEX**

➢**COUNTROWS, COUNTBLANK**

DAX Filter Functions

➢**CALCULATE**

➢**ALL**

➢**RELATED**

DAX Time Intelligence Functions

➢**Time Intelligence Introduction**

➢ **TOTALMTD, TOTALQTD, TOTALYTD**

➢ **PREVIOUSDAY, PREVIOUSMONTH, PREVIOUSQUARTER, PREVIOUSYEAR**

➢ **NEXTDAY, NEXTMONTH, NEXTQUARTER, NEXTYEAR**

➢ **SAMEPERIODLASTYEAR**

➢ **YOY Growth**

➢ **MOM Growth**

Power View :

Report View / Power View

➢ **Report View User Interface**

➢ **Fields Pane, Visualizations pane, Ribbon, Views, Pages Tab, Canvas**

➢ **Visual Interactions**

➢ **Interaction Type (Filter, Highlight, None)**

➢ **Visual Interactions Default Behavior, Changing the Interaction**

Filters in Power View

➢ **Filter Types**

➢ **Visual Level Filters, Page Level Filters, Report Level Filters, Drill Through Filters**

➢ **Filter Sub Types**

➢ **Basic Filtering, Advanced Filtering, Top N, Relative Date Filtering**

➢ **Numeric field filters, Text field filters, Date and Time field Filters**

Grouping, Binning & Sorting

Hierarchies and Drill-Down Reports

Power BI Visualizations

➢ **Visualizing Data, Why Visualizations**

➢ **Visualization types, Field Wells**

➢ **Visuals for Filtering, Visualizing Categorical Data, Visualizing Trend Data**

➢ **Visualizing KPI Data, Visualizing Tabular Data, Visualizing Geographical Data**

➢ **Leveraging Power BI Custom Visuals**

Visuals for Filtering

➢ **Slicer Visualization**

➢ **When to use a Slicer**

➢ **Create and format Slicer Visualization**

➢ **Hierarchy Slicer (Custom Visualization)**

- ➢ **When to use a Hierarchy Slicer**
- ➢ **Create and format Hierarchy Slicer**
- ➢ **Advantages of Hierarchy Slicer**
  Visualizing Categorical Data
  Visualizing KPI Data
- ➢ **Create and Format Gauge Visual, KPI Visual**
- ➢ **Create and Format Card Visualization, Multi Row Card**