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Power BI Course Content

Data warehouse concepts
- What is OLTP
- What is Datawarehouse
- What is E-R Modeling
- What is Start Schema and snowflake schema
- What are dimensions and Facts
- What is ETL
- What is Architecture of DWH

Power BI Desktop
- Introduction to Power BI Desktop
- Different data sources (excel, csv, Sql server, ssas, web)
- Data types and Categories
- Direct Query and Import and Live connection
- Parameters in power BI
- Calculate Column Vs Calculated Measures
- All Transformation Options in EDIT Query Window
- How to create Customer Function
- How to Invoke Custom Function
- Templates in power BI
- Hierarchies in Power BI
- import Excel workbook content
- Modeling and Filters in Power BI
- MERGING AND APPENDING QURIES
- cross filter direction in modeling
- Bins and list in Grouping
- Themes in powerbi
- Custome visualls
- Filters(Visual Level, Report Level ,Page Level,Drill through) in Power BI Desktop
- Scatter chart by using play axis option
- word cloud
- slicer
- Archi maps enablement in Power BI Desktop and service
- Power BI publisher for Excel
- Quick measures
- Publish reports to Power BI Online

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Power BI Service

- ➢ Introduction to Power BI Service
- ➢ How to create Dashboards
- ➢ Delivery Methods Of Dashboard
- ➢ How to create power BI Apps
- ➢ Data Gateways and schedule refresh
- ➢ Row Level Security
- ➢ Row Level Security in Power BI Desktop
- ➢ Row level security in Power BI Service
- ➢ Row level security in power BI dynamic
- ➢ Power BI Reporting Services
- ➢ Q&A Natural Language Processing option in Power BI
- ➢ Quick Insights
- ➢ Dashboards and Pins - Real-time Usage
- ➢ Dynamic Data Sources and Encryptions
- ➢ Personal and Organizational Content Packs
- ➢ Gateways, Subscriptions, Mobile Reports
- ➢ Data Refresh with Power BI Architecture
- ➢ PBIX and PBIT Files with Power BI - Usage
- ➢ Visual Data Imports and Visual Schemas
- ➢ Cloud and On-Premise Data Sources
- ➢ Relation between Dash boards to Reports
- ➢ Relation between Datasets to Dashboards
- ➢ Page to Report - Mapping Options
- ➢ Publish Options and Data Import Options
- ➢ Need for PINS @ Visuals and PINS @ Reports

Power BI DAX expressions
- ➢ Purpose of Data Analysis Expresssions (DAX)
- ➢ Scope of Usage with DAX. Usabilty Options
- ➢ DAX Context : Row Context and Filter Context
- ➢ DAX Entities : Calculated Columns and Measures
- ➢ DAX Data Types : Numeric, Boolean, Variant, Currency
- ➢ Date time Data Tye with DAX. Comparison with Excel

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Power BI Course Content

- DAX   Operators & Symbols. Usage. Operator Priority
- Parenthesis, Comparison, Arthmetic, Text, Logic
- DAX Functions and Types: Table Valued Functions
- Filter, Aggregation and Time Intelligence Functions
- Information Functions, Logical, Parent-Child Functions
- Statistical and Text Functions. Formulas and Queries
- Syntax Requirements with DAX. Differences with Excel
- Naming Conventions and DAX Format Representation
- Working with Special Characters in Table Names
- Attribute / Column Scope with DAX - Examples
- Measure / Column Scope with DAX - Examples
- YTD, QTD, MTD Calculations with DAX
- DAX Calculations and Measures
- Using TOPN, RANKX, RANK.EQ
- Computations using STDEV & VAR
- SAMPLE Function, COUNTALL, ISERROR
- ISTEXT, DATEFORMAT, TIMEFORMAT
- Time Intelligence Functions with DAX
- Data Analysis Expressions and Functions
- DATESYTD, DATESQTD, DATESMTD
- ENDOFYEAR, ENDOFQUARTER, ENDOFMONTH
- FIRSTDATE, LASTDATE, DATESBETWEEN
- CLOSINGBALANCEYEAR, CLOSINGBALANCEQTR
- SAMEPERIOD and PREVIOUSMONTH, QUARTER
- KPIs with DAX. Vertipaq Queries in DAX
- IF..ELSEIF.. Conditions with DAX
- Slicing and Dicing Options with Columns, Measures
- DAX for Query Extraction, Data Mashup Operations
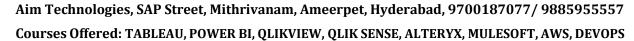- Calculated Columns and Calculated Measures with DAX

Power BI Reporting Services with SSRS

- Installation and configuration of Report Server
- R language integration with Power BI
- M language in Power BI Desktop
- SQL Server Analysis Service Tabular Model
- What is Analysis Services Tabular Model
- How to create Azure Analysis Service Tabular model project
- What is Workspace database

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Power BI Course Content

> Import Data

- ➢ Direct Query Mode
- ➢ Tables and Columns
- ➢ Relationships
- ➢ Calculations
- ➢ Measures
- ➢ KPIs
- ➢ Hierarchies

Partitions
Perspectives
Translations
Roles

> **Deployment of Tabular Project**