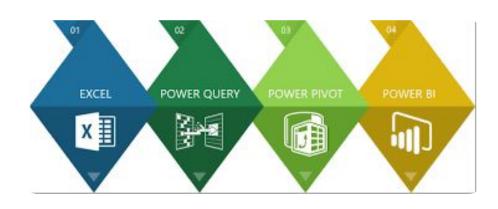
Data Analysis Tools

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Course Objective





LEARN DATA ANALYSIS TOOLS THROUGH MICROSOFT EXCEL, MICROSOFT POWER BI AND CREATE OPPORTUNITIES FOR YOU OR KEY DECISION-MAKERS TO DISCOVER DATA PATTERNS SUCH AS CUSTOMER PURCHASE BEHAVIOR, SALES TRENDS AND HR REPORTS.

YOU'LL LEARN ALL OF THE FEATURES IN EXCEL AND POWER BI THAT ALLOW YOU TO EXPLORE, EXPERIMENT WITH, FIX, PREPARE, AND PRESENT DATA EASILY, QUICKLY AND BEAUTIFULLY.

Course content

Excel For Analysis

Power Bi

Excel Course Content























Pivot Table and Pivot Chart Content

- •CUSTOMIZE YOUR PIVOT TABLE
- •VALUE FIELD SETTINGS > SUMMARIZE VALUES BY
- •VALUE FIELD SETTINGS > SHOW VALUES AS
- •GROUPING
- •SORTING
- •FILTERING
- •SLICERS
- •CALCULATED FIELDS & ITEMS
- •PIVOT CHART
- Chart formatting tips



Power Query Content

- •Import data from various external sources, folders & Excel workbooks, websites, Database (access)
- •Clean & transform lots of data quickly
- •Consolidate data with ease
- Sort & Filter data
- Merge data
- •Join data
- Dealing with Rows
- Dealing With Columns
- Auto cleanup your data
- •Replace value
- Solve Dates Problems

Dashboard And Data Visualization Content

- Dashboard Elements
- •The 5-Second Rule
- Dealing With Colors
- Choose the fit chart for your data
- Common Visualization Mistakes
- Storytelling with Data



Excel analysis Tools

- Scenario Manager (What If Analysis)
- Goal Seek (What If Analysis)
- Data Table (What If Analysis)
- Forecast Sheet
- Q&A Tool For Quick Analysis(analyze Data Tool)
- Statistics Functions





Power Bi Course Content

- Connect & Transform the Raw Data
- •Build a Relational Data Model
- •DAX
- •Design Interactive Power BI Reports

Connect & Transform the Raw Data

- •Import data from various external sources, folders & Excel workbooks, websites, Database (access)
- Dealing with power query editor
- •Intro to the Power BI Query Editor
- •Types of Power BI Data Connectors
- Basic Table Transformations
- •Text, Number & Date Tools
- Index & Conditional Columns
- Grouping & Aggregating Data
- Pivoting & Unpivoting
- Modifying, Merging & Appending Queries
- Connecting to Folders
- Defining Hierarchies & Categories
- Query Editing & Power BI Best Practices



Build a Relational Data Model & DAX

- Creating Power BI Table Relationships
- Connecting Multiple Data Tables
- Intro to Data Analysis Expressions (DAX)
- Calculated Columns vs. Measures
- Common Power BI Functions
- Basic Date & Time Formulas
- Logical & Conditional Statements
- •Text, Math & Stats Functions
- •CALCULATE, ALL & FILTER Functions
- DAX Iterators (SUMX, AVERAGEX)



Design Interactive Power BI Reports

- •Intro to the Power BI Report View
- Adding Basic Charts to Power BI Reports
- Formatting & Filtering Options
- Matrix Visuals
- Slicers & Timelines & Filter
- •Cards & KPIs
- Power BI Map Visuals (Basic, Fill, ArcGIS)
- Treemaps, Lines, Areas & Gauges
- Editing Report interactions
- Adding Drillthrough Filters
- Linking to Report Bookmarks
- Using "What-If" Parameters
- •PREVIEW: Publishing to Power BI Service
- Power BI Data Viz Best Practices



Course Information





DURATION: 33 TRAINING HOURS
2 SESSIONS PER WEEK
TOTAL SESSIONS 13

PRACTICAL ASSIGNMENT IN SESSIONS