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BROCHURE FOR TRAINING ON

Excel - Data Analytics and Business Intelligence

Course objective

This course is designed to introduce you to data analytics and business intelligence skills using MS Power BI. The objective of this course is to provide a detailed step by step guide to create an end-to-end bi solution using a workflow mechanism that starts with the data sourcing or connection and transformation functionality of power Query, followed by data modelling, Analysis Expression and Data visualization using Powerful engine of Power BI.

We will be using a standard dataset based case study containing multiple Data tables as our instructor-led in-Class learning mechanism, using which we will apply concepts learned and create adynamic and interactive dashboard. We will also provide add-on Demo to introduce you to advance areas in power BI however this course is Designed to cover those advance areas in details, we will stick to setting up strong foundations with Power BI and use a lot of DAX and Visualization.

Who is this course for?

All professionals who are concerned with their business reporting requirements and would like to take their data analytics skills to Next-Level by using purpose specific Business Intelligence tool i.e., MS Power BI will find this training course useful and may include:

1. Working professionals from various field such as Finance, Supply Chain, Marketing, HR, Sales, Any Other Profession
2. Freelancers looking to master Power BI data analytics and business intelligence skills to improvise their earning potential.



Duration and Price Details

- 18 hours course, 6-8 weeks long
- 2 classes of 1 and a half hours per week
- Recorded sessions available 24/7 on the LMS uploaded within 24 hours of the class
- Online support during business hours available
- Weekly Progress report to HR where enrolled by Company
- Price PKR 39,900 per person.



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Course outline

1. Data Analysis Options in MS Excel

- Introduction
- Quick Analysis Tools
- Scenario Manager
- Optimization With Goal Seek
- Basic Forecasting
- Outlier Detection
- Automated Data Tables
- Power Excel
- Monte Carlo Simulation
- Advance Optimization With Solver
- Analysis ToolPak (Preview)

2. Power Query Walk Through

- Introduction to Power Query
- Query Editor
- Data Loading Options
- Basic Table Transformations
- Text Specific Tools
- Number Specific Tools
- Date Specific Tools

- Creating a Rolling Calendar
- Adding Index and Conditional Columns
- Grouping and Aggregating Data
- Pivoting and Unpivoting xii. Modifying Workbook Queries
- Merging Queries
- Appending Queries
- Connecting to a Folder of Files
- Power Query Best Practices

3. Data Modelling

- Introduction
- Meet Excel's Data Model iii. Data vs Diagram View
- Database Normalization
- Data Tables vs Lookup Tables
- Relationships vs Merged Tables
- Creating Table Relationships
- Modifying Table Relationships
- Active vs Inactive Relationships
- Relationship Cardinality
- Relationship Cardinality
- Connecting Multiple Data Tables



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- Filter Direction
- Hiding Fields From Client Tools
- Defining Hierarchies xv. Data Model Best Practices

4. Power Pivot and Data Analysis Expressions (DAX)

introduction

Creating a Power Pivot Table

Power Pivot vs Normal Pivot

Introduction to DAX

Calculated Columns

DAX Measures Creating Implicit Measures

- Creating Explicit Measures (AutoSum)
- Creating Explicit Measures (Power Pivot)
- Understanding Filter Context
- text



- Step-by-Step Measure Calculation
- Power Pivot Best Practices

5. Common DAX Functions

- Introduction
- DAX Formula Syntax and Operators
- Common DAX Function Categories
- Basic Math & Stats Functions
- COUNT, COUNTA, DISTINCT COUNT, COUNTROWS
- Logical Functions (IF/AND/OR)
- SWITCH & SWITCH (TRUE)
- Text Functions
- The CALCULATE Function
- Adding Filter Context With FILTER
- Removing Filter Context With ALL
- Joining Data with RELATED Iterator

Functions:

- SUMX
- Iterator (X) Functions: RANKX
- Basic Date & Time Functions
- Time Intelligence Formulas
- DAX Best Practices

6. Data Visualization Guide lines

- Introduction
- Data Visualization Options
- Sneak Peak Into: Power BI

Trainer's Profile



Mr. Jawad Nagda

An expert level Management Accountant (17+ years) turned Data Analyst (5+ years) having developed core competencies in the areas of Accounting, Finance, Controlling, Audit, Planning, and Analysis, he helps corporations attain Finance/Digital Transformation, Revenue Maximization, Cost Minimization, and Effective Capital Utilization through leveraging Analytics Business Partnering.

Course Resources

- Power point slides for ready reference (hands outs)
- Raw Data files for training purpose
- Hand-on class projects with solutions
- Access to recorded lectures post live class

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