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| **POWER BI COURSE CONTENTS** |

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| **Chapter 1: Introduction to Power BI**   * Introduction to Power BI * Power BI Architecture * Components of Power BI * Relationship between Excel &Power BI * Why power BI * Downloading and installing Power BI * Power BI Desktop &Power BI Services * Building blocks of Power BI * Power BI Editor * Power BI File Sources * Connecting to different file systems like flat file, excel etc. * Relationship in Datasets * Editing Relationship in Datasets * Defining relationships between tables   **Assignment 1** | **Chapter 2: Visualization in Power BI**   * Working with different visualization * Data Visualizations with Power BI * Binding Charts with Data * Bar Charts * Card * Slicers * Charting Features * Data fields, Formatting & Analytics * Field Properties: Axis, Legend, Value, Tooltip * Formats: Legend, Axis, Data Labels, Plot Area * Data Labels: Visibility, Color and Display Units * Analytics: Constant Line, Position, Labels   **Assignment 2** |
| **Chapter 3: Types of Visualizations**   * STACKED BAR CHART, STACKED COLUMN CHART * CLUSTERED BAR CHART, CLUSTERED COLUMN CHART * 100% STACKED BAR CHART, 100% STACKED COLUMN CHART * LINE CHARTS, AREA CHARTS, STACKED AREA CHARTS * LINE AND STACKED ROW CHARTS * LINE AND STACKED COLUMN CHARTS * WATERFALL CHART, SCATTER CHART, PIE CHART * Working with table and matrix visuals * Gauge and KPI * Maps * Power BI Question & Answers   **Assignment 3** | **Chapter 4: Power BI Advanced Features**   * Tooltips * Filters * Types of Filters * Visualization filters * Page Filters * Report Filters * BookMarks * Creating Navigation in Power BI * Interactions in Power BI * Edition Interactions in Power BI * Selection Pane in Power BI * Hiding / UnHiding Using Selection Pane   **Assignment 4** |
| **Evaluation 1 : TEST / EXAM TO GAUGE THE PERFORMANCE (Mockup Interview)** | |
| **Chapter 5: Power BI Data Transformation (Day 9,10)**   * Data Transformation in Power BI * Editing Data Sources * Data Sets * Editing Datasets * Applying Changes to Datasets * Cleaning Datasets in Power * Reverting changes to Datasets * Remove Rows * Remove error records , blank rows * Remove columns * Split columns and Merge Columns * Choosing required columns in the data * Changing Columns DataType * Working with different transformations * Applied steps in query editor * Arithmatics Functions * DateTime Functions * Rounding * Creating Calculated Columns * Creating index and custom columns * Creating Conditional Columns * Group By functionality in Query Editor * Merge Queries and Append Queries * Merging Data from different data sources * Append Data from different data sources   **Assignment 5** | **Chapter 6: Power BI Data Sources (Day 11, 12)**   * File Data Sources (PDF etc) * Connecting to different database like sql server, mysql etc. * Power BI Web Sources * Fetching data from different files * Connecting to SQL SERVER Data Sources * Working with import and direct query * Connecting with Views, Stored Procedures etc * Difference between Import and DirectQuery * Connected to Different web sources * Connecting to JSON , XML etc * Connecting to OData * Creating custom table   **Assignment 6** |
| **Chapter 7 : DAX in Power BI (Day 13,14)**   * Working with DAX Functions * Understanding Calculated Column * Creating Calculated Columns * Understanding Measures * Creating Measures * Difference between Columns & Measures * Calculated Measures by using DAX * Parameters with DAX * Variables * Date functions * String functions * Arithmetic Functions * Logical Functions * Relationship functions * Math/Statistics function * Information functions   **Assignment 7** | **Chapter 8 : Advanced DAX Functions(Day 15.16)**   * Table Functions(ALL, ALLEXCEPT, FILTER) * CALENDAR, DATESBETWEEN * DAX Calculations and Measures * ISTEXT, FORMAT * Time Intelligence Functions with DAX * YTD, QTD, MTD Calculations with DAX * Data Analysis Expressions and Functions * ENDOFYEAR, ENDOFQUARTER,ENDOFMONTH * FIRSTDATE, LASTDATE, DATESBETWEEN * SAMEPERIODLAST YEAR, PARALLEL PERIOD * FILTER FUNCTIONS * Using RANKX   **Assignment 8** |
| **Evaluation 2 : TEST / EXAM TO GAUGE THE PERFORMANCE (Mockup Interview)** | |
| **Chapter 9 : Power BI Deployment**   * Understanding PowerBI Cloud Architecture * Power BI Server Configuration * PowerBI Cloud Account and Workspace * Creating Account in Power BI Services * Power BI Users * Types of Users -> Free, Pro, Premium * Deployment Power BI Desktop Reports * Managing report in Power BI Services * Editing Reports in Power BI Servers * Downloading PBIX files from Server * Share dashboards to Client /Users | **Chapter 10 : Gateway,Data Refresh, Security**   * Gateways * PowerBI Gateway -Download and Installation * Data Refresh with Power BI Architecture * PowerBI Settings : Dataset -Gateway Integration * Configuring Dataset for Manual Refresh of Data * Configuring Automatic Refresh and Schedules * Security Features in Power BI * Power BI Mobile Apps |
| **Evaluation 3 :FINAL TEST / EXAM TO GAUGE THE PERFORMANCE (Mockup Interview)** | |
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