

Certified Professional Training

# Power BI Data Analyst

**Practical Training on Real World Industrial Datasets**

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**Target Learners:** Undergraduates and Job Professionals

**Pre-requisite:** Basic computer technological skills

**Duration:** 2 Months (2 sessions each week = Total 16 sessions)

**Credit Hours:** 32 (4 Hours each week)

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**Enrollment Form:** <https://forms.gle/wHUTGTGtAAba5AjN6>

## Key Takeaways



- Data Visualization in Power BI
- Power Queries and Editor
- Data Modeling in Power BI
- DAX in Power BI
- Power BI Service.
- Creating Dashboards
- Data Connections in Power BI.
- SQL Queries and Interfacing with Power BI
- Publishing & sharing dashboards
- Bravo with Power BI
- Power BI Mobile Interface

**Approved by**



ViLabs Academy, Advisory Board Members (ABM) comprises senior educators, industry leaders, and global technology experts who provide strategic guidance across training design and curriculum development. The Board actively reviews course content, ensures alignment with current industry demands, and validates learning outcomes against global skill standards. Their involvement guarantees that all ViLabs Academy programs remain credible, practical, and workforce-ready, giving learners and partners confidence in the quality and relevance of our education.

## Software/Tools to be learn



- Power BI Desktop
- Power BI Service
- Power BI Mobile

## Course Outline



### Introduction to Power BI and Connect to Data

- Getting started with Power BI Desktop
- Explore Power BI tools.
- Connect to Data Sources in Power BI Desktop
- How to Import Excel Workbooks and CSV Files.
- How to analyze Tabular Data.
- Connect to Web data.
- Importing and analyzing data from a web page.
- Analyzing sales data from Excel
- Bringing your own data and analyze it in Power BI.

### Data Visualization in Power BI

- Explore all visualization tools
- Add data to your visual.
- Format your report page.
- Add further analysis to your visual.
- Apply filters to your visualization.

### Working with Reports

- Discuss report view / sort by column.
- Tips and tricks for creating reports.
- Creating reports on Finances of a company.

### Power Query and Combine Data

- Getting started with Power Query Editor
- Query Overview

- Data categorization
- Column and Row management
- Data types
- Statistics, Standard and Scientific operations

## **Data modeling**

- Relationship/Model view
- Create and manage relationships in Power BI Desktop

## **Data Fundamentals and DAX Functions**

- Data Type in Power BI Desktop
- DAX Basics
- Measures in Power BI Desktop
- Create your own measures
- Calculated columns
- Create calculated columns
- Difference between Calculated Measures and Calculated Columns

## **Context in DAX Formulas**

- Introduction to Context
- Row Context
- Filter Context
- Iterator Function
- Calculate Function
- Variables
- Variable in conjunction with calculate Function

## **The Date Table in DAX**

- Calculated tables
- Working with dates
- Importance of date table
- Creating date table
- Adding column inside a table
- Connecting columns of tables

## **Quick Measures in DAX**

- Explore quick measures pane
- Working with all calculation's tools in quick measures
- Aggregate, filters and time intelligence functions, etc.

## **Power BI Service**

- The data flow process
- Power BI desktop connections
- Welcome to Power BI Services
- Desktop vs Services

## **Workspaces in Power BI Service**

- Creating apps and workspace

- Templates vs organizational apps
- Workspace defaults

## **Securing Content in Power BI**

- Securing Datasets
- Row level security benefits
- Manage dataset permissions
- Matching and Granting permission on activities.

## **Dashboards**

- Importance of Dashboards
- How to create and manage dashboards in Power BI
- Configuring Dashboards

## **Sharing your Work**

- Steps to publish an app
- Publish from Power BI Desktop
- Share a dashboard from Power BI

## **Power BI Mobile**

- Exploring Power BI Mobile
- How to work for Power BI Mobile Interface
- Formatting for Mobile Interface
- Tool and Editing options

## **Social Media Analysis**

- Social Media Platforms
- How to extract data from LinkedIn and Facebook
- LinkedIn Analysis
- Facebook Analysis

## **Bravo with Power BI**

- Introduction to Bravo
- Connecting Power BI with Bravo
- Analyzing datasets
- Formatting DAX formulaes
- Date Tables and Time Intelligence in Barvo
- Exporting datasets from Bravo

## **Data source settings and M Language**

- Discovering M Language
- Concepts of Lists, Records and Tables
- How to create lists and records
- How to extract data from lists and records.

## **SQL Database**

- Overview of databases and their importance

- Types of databases: relational, NoSQL, etc.
- Introduction to MySQL and MySQL Workbench
- Installing MySQL and Workbench
- Connect to SQL Data Sources in Power BI
- How to import and analyze SQL Data.

## Projects



1. **Walmart Retail Sales Analysis:** Explore sales data from Walmart to understand consumer behavior and optimize retail strategies using Power BI.
2. **United States Census Manufacturing Survey:** Dive into manufacturing survey data from the United States Census Bureau to uncover industry trends and opportunities for growth.
3. **Kevin Cookie Company Financial Analysis:** Conduct financial analysis of Kevin Cookie Company to optimize budgeting and financial planning strategies.
4. **Gold and Commodities Price Prediction:** Apply predictive analytics to forecast gold and commodity prices from 2000 to 2022 using Power BI.
5. **Bank Loan Prediction Modeling:** Develop predictive models to assess loan eligibility and minimize default risks for a bank.
6. **Social Media Analytics:** Analyze engagement data from Facebook and LinkedIn to optimize marketing strategies and enhance brand presence across platforms.