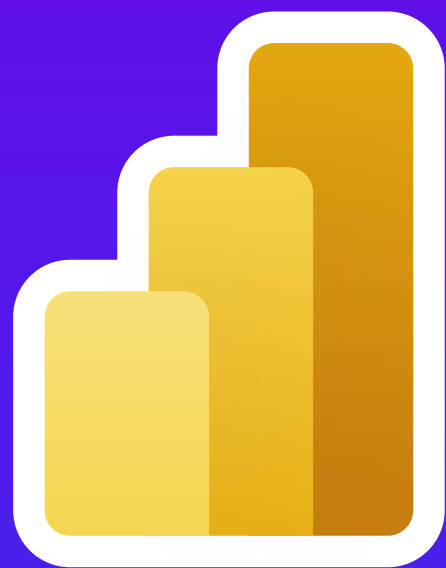
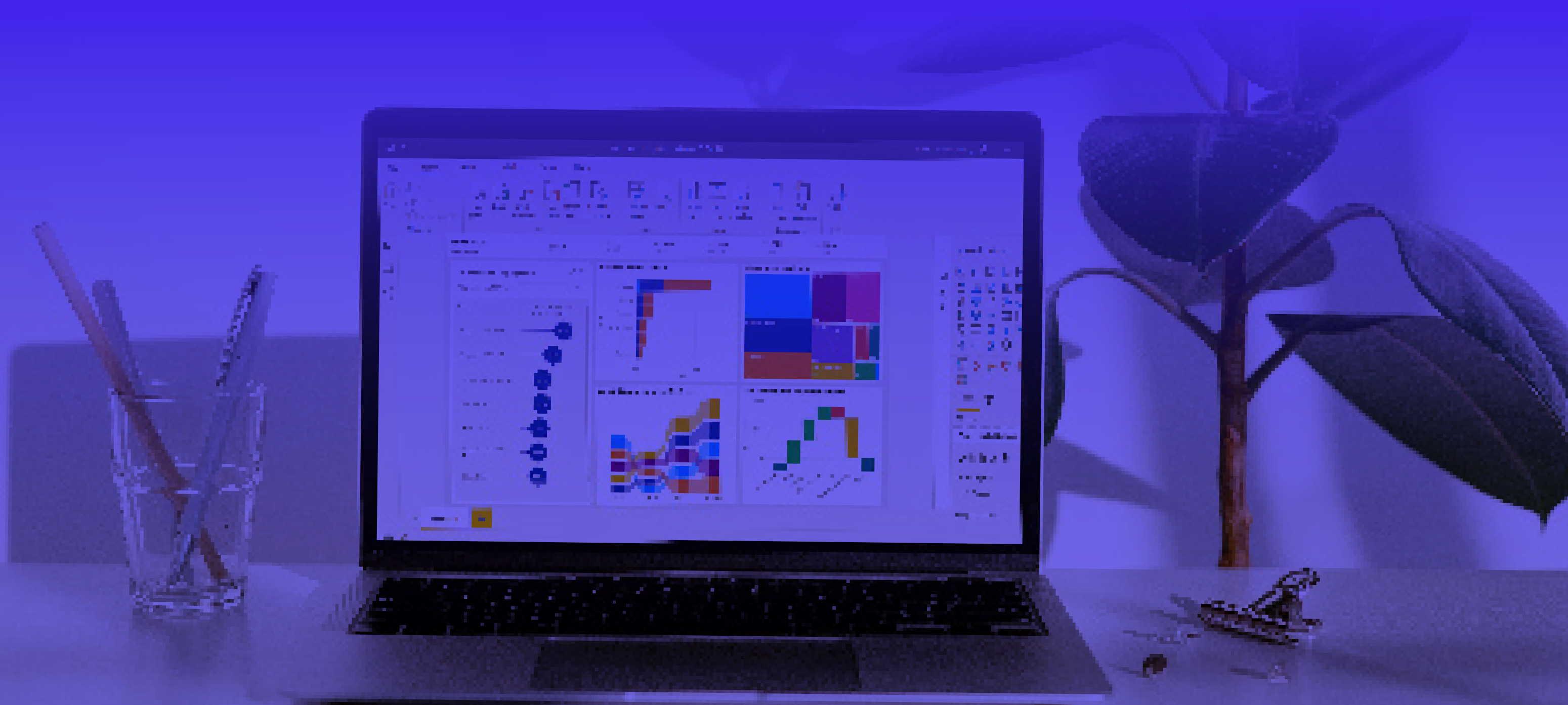




MENTORA
Analytics



Power BI For Data Analyst



Introduction

Microsoft Power BI is the world's most widely used **data analysis tool, favored by companies for the past 7 years**. It offers a comprehensive solution for **Data Intelligence and Analytics**, enabling easy and scalable creation of business data solutions. Power BI integrates seamlessly with Office 365 and external technologies like Big Data sources and analytics languages such as R and Python.



Prerequisites

Basic knowledge of Microsoft Excel (**basic concepts of filtering and formulas**).

Objectives

- Equip participants to create a **complete data product** using Power BI.
- Develop four analytical data models in key business areas: **Finance, Commercial, Operations, and Human Capital**.
- Integrate these models into a business dashboard for decision-making support.

Methodology



Synchronous sessions based on practical cases (real cases).

Duration



The course has a duration of **32 chronological hours** (40 academic hours).

Benefits



Internationally Valid Certification.



Recognized Data and Analytics Specialist Instructors and Consultants.



Support, guidance, and development for students.

Syllabus

Topic 1

Business Intelligence and Data Warehouse

- Information Management.
- Business Intelligence.
- BI Project Phases.
- What is a Data Warehouse?
- Business Intelligence Tools.

Topic 2

What is Power BI?

- Power BI Solution Suite.
- Power BI Solution Architecture.
- Introduction to Power BI Desktop.
- My First Report with Power BI.

Topic 3

ETL with Power BI

- What is ETL?
- What is Power Query?
- Connecting to Data Sources: SQL, AZURE SQL, and Flat Files.
- Connection Types: **Import and Direct Query**.
- Introduction to M Language.
- Data Transformation I.
- Practical Cases: **Matrix to Tabular**.

Topic 4

Data Modeling with Power BI

- What is Data Modeling?
- Types of Modeling: **Star, Snowflake, and Constellation**.
- Types of Tables: **Fact and Dimension**.
- Types of Relationships.
- Introduction to DAX.
- Practical Cases: **Commercial Data Model**.

Topic 5

Data Visualization with Power BI

- History of Data Visualization.
- What is Data Storytelling?
- Best Practices in Creating Visual Objects.
- Practical Cases: **Generating 25 Native Visuals with Power BI**.

Topic 6

What is Power BI Service?

- Differences between Service and Desktop.
- Workflow in Power BI Service.
- Collaboration Tools in Service.
- Workspaces.
- Practical Case: **Creating Dashboards**.

Topic 7

Advanced ETL with Power BI

- Connecting to Online Data Sources: SharePoint, OneDrive, and Web Pages.
- Advanced Data Transformations with Power Query.
- Combining Queries.
- Practical Case 1: ETL for Human Capital Data Model.
- Practical Case 2: ETL for Finance Data Model.

Topic 2

Advanced Data Modeling with Power BI

- Management Indicators.
- DAX for Creating Indicators (Calculate, X functions).
- Time Intelligence.
- Practical Case 1: Finance Data Model.
- Practical Case 2: Advanced Commercial Data Model.
- Practical Case 3: Pareto in Power BI.

Topic 9

Advanced Data Visualization with Power BI

- Creating Stories with Power BI (Bookmarks, Navigation, and Tooltips).
- Custom Visualizations with Marketplace.
- Advanced Visualizations in Power BI with DAX.

Topic 4

Advanced Power BI Service

- Creating Operations Report (**Purchases**). Configuring
- Automatic Updates (**Data Gateway**).
- Creating a Balanced Scorecard.

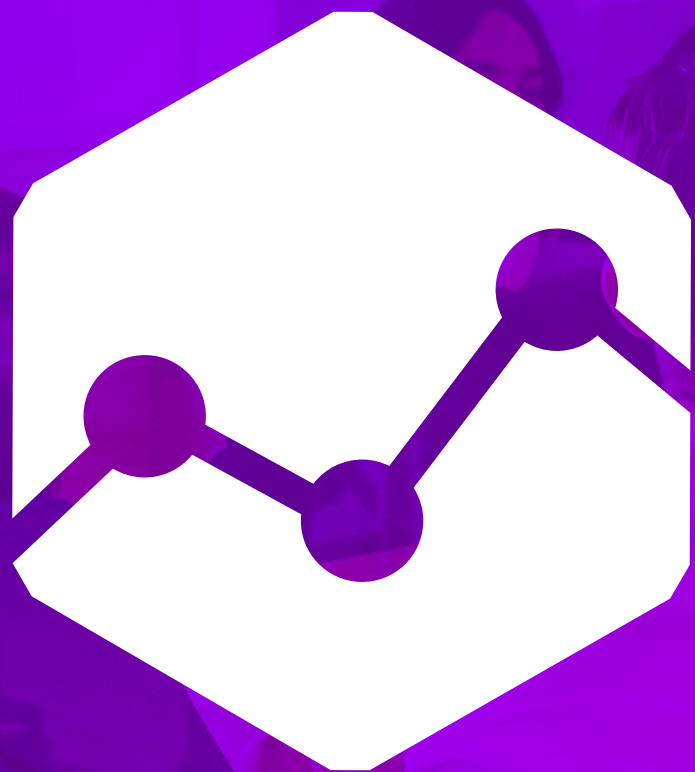
Topic 11

Business Analytics with Power BI

- What is Business Analytics?
- Integration with R and Python.

Topic 12

Final Project



MENTORA
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phone number: (949) 456-0194.
info@mentora-analytics.com