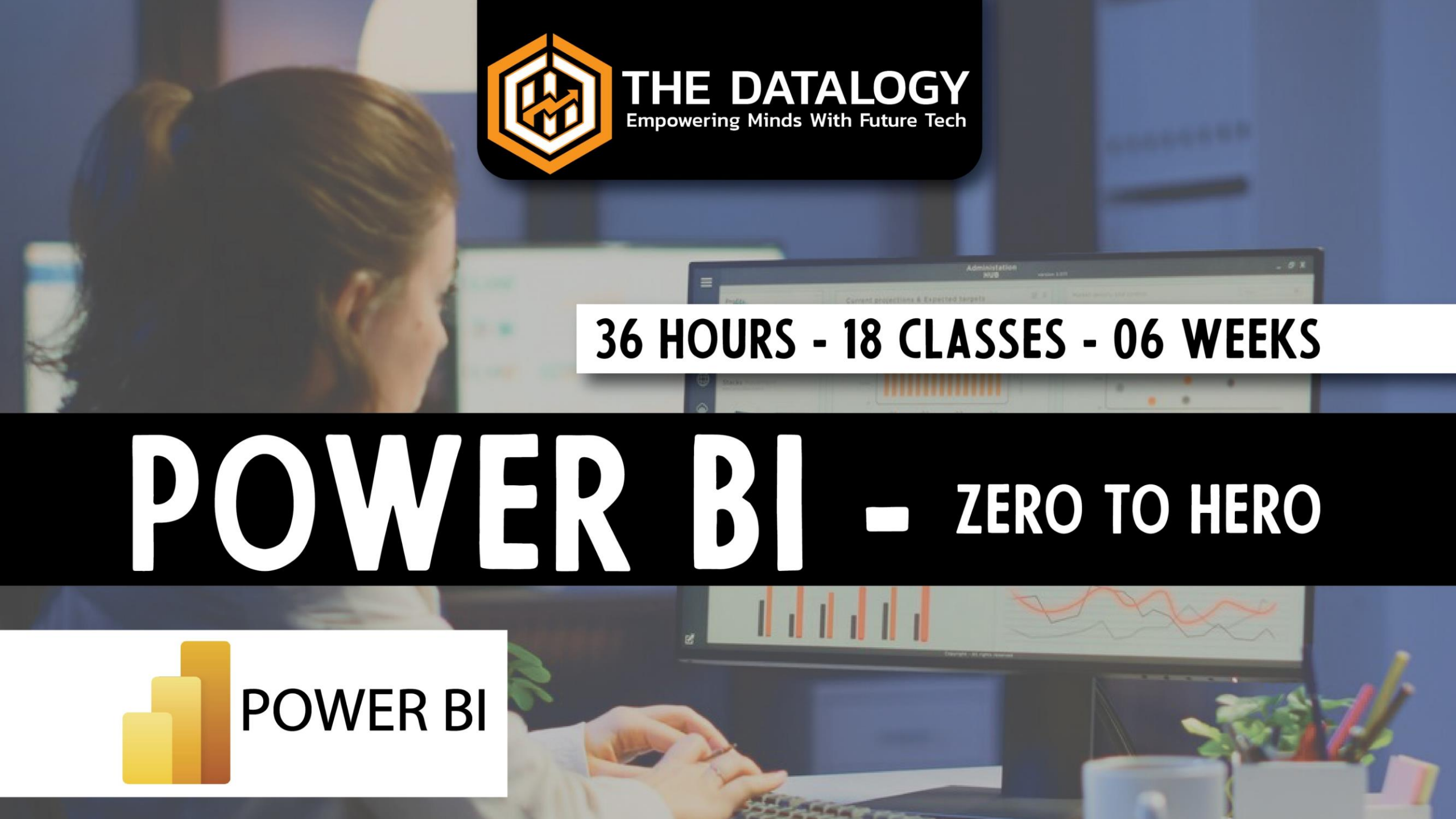
THE DATALOGY
Empowering Minds With Future Tech
36 HOURS - 18 CLASSES - 06 WEEKS
POWER BI - ZERO TO HERO
POWER BI

THE DATALOGY
Empowering Minds With Future Tech

MICROSOFT POWER BI

PROGRAM OUTLINE

36 HOURS – 18 CLASSES – 6 WEEKS

PROGRAM OUTLINE

Learning Path 1: Get started with Microsoft data analytics

Module 1: Discover Data Analysis

- Introduction Overview of data analysis
- Roles in data
- Tasks of a data analyst

Module 2: Get started building with Power BI

- Introduction Use Power BI
- Building blocks of Power BI
- Tour and use the Power BI service

PROGRAM OUTLINE

Learning Path 2: Prepare data for analysis with Power BI

Module 3: Prepare data for analysis with Power BI.

- Introduction.
- Get data in Power BI.
- Get data from files.
- Get data from databases.
- Get data from relational data sources.
- Create dynamic reports with parameters.
- Get data from Online services.

PROGRAM OUTLINE

Learning Path 2: Prepare data for analysis with Power BI

Module 4: Clean, Transform and load data in Power BI.

- Introduction to Power Query.
- Shape the initial data.
- Transform the data according to the need with Power Query.
- Simplify the data structure.
- Evaluate and change column data types.
- Combine multiple table into a single table.
- Profile data in Power BI.
- Use Advanced Editor to modify M code.

PROGRAM OUTLINE

Module 5: Describe Power BI Desktop Models

- Introduction.
- Star Schema Design.
- Configure report visuals.

Module 6: Choose a Power BI model framework

- Describe Power BI model fundamentals.
- Determine when to develop and import model.
- Choose a model framework.

PROGRAM OUTLINE

Learning Path 3: Model data with Power BI

Module 7: Design a semantic model in Power BI

- Introduction.
- Work with tables.
- Create a date table.
- Work with dimensions.
- Work with relationships and cardinality.
- Resolve modelling challenges.

Module 8: Write DAX formulas for Power BI Desktop models

- Introduction.
- Write DAX formulas.
- DAX data types.
- Work with DAX functions.
- Use DAX operators.

PROGRAM OUTLINE

Learning Path 3: Model data with Power BI

Module 9: Use DAX time intelligence functions in Power BI Desktop Models

- Use DAX time intelligence functions.
- Additional time intelligence calculations.

Module 10: Add Measures to Power BI Desktop Models

- Introduction.
- Create simple measures.
- Create compound measures.
- Create quick measures.
- Create calculated columns with measures.

PROGRAM OUTLINE

Learning Path 3: Model data with Power BI

Module 11: Add Calculated tables and columns to Power BI Desktop Models

- Introduction.
- Create calculated columns.
- Learn about row context.
- Choose a technique to add a column.

Module 12: Optimize a model for performance in Power BI

- Introduction to performance optimization.
- Review performance of measures, relationships and visuals.
- Reduce cardinality.
- Apply good modelling practices.

PROGRAM OUTLINE

Learning Path 4: Build Power BI visuals and reports

Module 13: Scope report design requirements

- Identify the audience.
- Determine report types.
- Define user interface requirements.
- Define user experience requirements.

Module 14: Design Power BI reports

- Design the analytical report design.
- Design visually appealing reports.
- Report objects.
- Select report visuals.
- Select report visuals to suit the report layout.
- Format & configure visualizations.
- Work with KPI (Key Performance integrators)

PROGRAM OUTLINE

Learning Path 4: Build Power BI visuals and reports

Module 15: Configure Power BI report filters

- Apply filters to the report structure.
- Apply filters with slicers.
- Visual level filters.
- Page and report level filters.
- Design report with advanced filtering techniques.
- Select report filter techniques.

Module 16: Enhance Power BI report designs for the user experience

- Design report to show details.
- Design report to highlight values.
- Design report that behave like Apps.
- work with bookmarks.
- design report for navigations.
- Work with visuals headers.
- Tune report performance.
- Optimize report for mobile use.

PROGRAM OUTLINE

Learning Path 4: Build Power BI visuals and reports

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PROGRAM OUTLINE

Learning Path 5: Manage workspaces and datasets in Power BI

Module 17: Create and manage workspaces in Power BI Service

- Distribute a report to dashboard.
- Monitor usage and performance.
- Configure data protection.

Module 18: Manage semantic models in Power BI

- Use a Power BI gateway to connect to On - Premises data sources.
- Configure a semantic model schedule refresh.
- Configure incremental refresh settings.
- Manage and promote semantic models.
- Troubleshoot service connectivity.

PROGRAM OUTLINE

Learning Path 5: Manage workspaces and datasets in Power BI

Module 19: Create dashboards in Power BI Service

- Introduction to Power BI Service dashboards.
- Configure data alert.
- Explore data by asking questions.
- Review quick insights.
- Add a dashboard theme.
- Configure a real time dashboard.
- Set Mobile View.

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