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## DP-605T00 Develop dynamic reports with Microsoft Power BI

### Overview

*Course Duration: 10 Hours*

### About This Course

Transform and load data, define semantic model relationships and calculations, create interactive visuals, and distribute reports using Power BI.

### Course Outline

#### Module 1: Get data in Power BI.

- Get data from files.
- Get data from relational data sources.
- Create dynamic reports with parameters.
- Get data from a NoSQL database.
- Get data from online services.
- Select a storage mode.
- Get data from Azure Analysis Services.
- Fix performance issues.
- Resolve data import errors.
- Exercise - Prepare data in Power BI Desktop.

#### Module 2: Clean, transform, and load data in Power BI.

- Shape the initial data.
- Simplify the data structure.
- Evaluate and change column data types.
- Combine multiple tables into a single table.
- Profile data in Power BI.
- Use Advanced Editor to modify M code.
- Exercise - Load data in Power BI Desktop.

#### Module 3: Design a semantic model in Power BI.

- Work with tables.
- Create a date table.
- Work with dimensions.
- Define data granularity.
- Work with relationships and cardinality.
- Resolve modeling challenges.
- Exercise - Model data in Power BI Desktop.

#### Module 4: Add measures to Power BI Desktop models.

- Create simple measures.
- Create compound measures.
- Create quick measures.
- Compare calculated columns with measures.
- Check your knowledge.
- Exercise - Create DAX Calculations in Power BI Desktop.

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**Module 5: Add calculated tables and columns to Power BI Desktop models.**

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

**Module 6: Design Power BI reports.**

- Design the analytical report layout.
- Design visually appealing reports.
- Report objects.
- Select report visuals.
- Select report visuals to suit the report layout.
- Format and configure visualizations.
- Work with key performance indicators.
- Exercise - Design a report in Power BI desktop.

**Module 7: Configure Power BI report filters.**

- Apply filters to the report structure.
- Apply filters with slicers.
- Design reports with advanced filtering techniques.
- Consumption-time filtering.
- Select report filter techniques.
- Case study - Configure report filters based on feedback.

**Module 8: Create and manage workspaces in Power BI.**

- Distribute a report or dashboard.
- Monitor usage and performance.
- Recommend a development life cycle strategy.
- Troubleshoot data by viewing its lineage.
- Configure data protection.

**Module 9: Manage semantic models in Power BI.**

- Use a Power BI gateway to connect to on-premises data sources.
- Configure a semantic model scheduled refresh.
- Configure incremental refresh settings.
- Manage and promote semantic models.
- Troubleshoot service connectivity.
- Boost performance with query caching (Premium)

**Prerequisites**

Completion of the Get started with Microsoft data analytics is recommended.