



PL-300: Microsoft Power BI Data Analyst

Course ID #: 7000-683-ZZ-Z

Hours: 21

Course Content

Course Description:

This course will discuss the various methods and best practices that are in line with business and technical requirements for modeling, visualizing, and analyzing data with Power BI. The course will also show how to access and process data from a range of data sources including both relational and non-relational data. This course will also explore how to implement proper security standards and policies across the Power BI spectrum including datasets and groups. The course will also discuss how to manage and deploy reports and dashboards for sharing and content distribution.

At Course Completion:

Students will be able to:

- Ingest, clean, and transform data
- Model data for performance and scalability
- Design and create reports for data analysis
- Apply and perform advanced report analytics
- Manage and share report assets

Prerequisites:

Successful Data Analysts start this role with experience of working with data in the cloud.

Specifically:

- Understanding core data concepts.
- Knowledge of working with relational data in the cloud.
- Knowledge of working with non-relational data in the cloud.
- Knowledge of data analysis and visualization concepts.

Target Student:

The audience for this course is data professionals and business intelligence professionals who want to learn how to accurately perform data analysis using Power BI. This course is also targeted toward those individuals who develop reports that visualize data from the data platform technologies that exist on both in the cloud and on-premises.



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Topics:

Module 1: Get Started with Microsoft Data Analytics

- Data Analytics and Microsoft
- Getting Started with Power BI

Module 2: Getting Data in Power BI

- Data Analytics and Microsoft
- Optimize Performance
- Resolve Data Errors

Lab : Preparing Data in Power BI Desktop

- Prepare Data

Module 3: Cleaning, Transforming, and Loading Data in Power BI

- Shaping the Data
- Profiling the Data
- Enhance the data structure

Lab : Loading Data in Power BI Desktop

- Loading Data

Module 4: Design a Data Model in Power BI

- Introduction to data modeling
- Working with tables
- Dimensions and Hierarchies

Lab : Data Modeling in Power BI Desktop

- Create Model Relationships
- Configure Tables and Column Properties
- Create hierarchies

Module 5: Create Model Calculations using DAX in Power BI

- Introduction to DAX
- Real-time dashboards
- Advanced DAX

Lab : Introduction to DAX in Power BI Desktop

- Create calculated tables
- Create calculated columns
- Create measures

Lab : Advanced DAX in Power BI Desktop

- Use the CALCULATE() function to manipulate filter context
- Use Time Intelligence functions

Module 6: Optimize Model Performance in Power BI

- Optimize the data model for performance
- Optimize DirectQuery Models

Module 7: Create Reports in Power BI

- Design a report
- Enhance the report

Lab : Enhancing reports with interaction and formatting in Power BI Desktop

- Create and configure Sync Slicers
- Create a drillthrough page
- Apply conditional formatting
- Create and use Bookmarks

Lab : Designing a report in Power BI Desktop

- Design a report
- Configure visual fields and format properties

Module 8: Create Dashboards in Power BI

- Create a Dashboard
- Real-time Dashboards
- Enhance a Dashboard

Lab : Creating a Dashboard in Power BI Service

- Create a Dashboard
- Pin visuals to a Dashboard
- Use Q&A to create a dashboard tile



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Module 9: Identify Patterns and Trends in Power

BI

- Advanced Analytics
- Data Insights through AI visuals

Lab : Data Analysis in Power BI Desktop

- Create animated scatter charts
- Use the visual to forecast values

Module 10: Create and Manage Workspaces in

Power BI

- Creating Workspaces
- Sharing and Managing Assets

Module 11: Manage Files and Datasets in Power

BI

- Parameters
- Datasets

Module 12: Row-level Security in Power BI

- Security in Power BI

Lab : Enforce Row-Level Security

- Configure many-to-many relationships
- Enforce row-level security