Analyzing Data with PowerBI

Duration: 3 Days **Course Code: M20778** **Version: C**

Overview:

The main purpose of the course is to give students a good understanding of data analysis with Power BI. The course includes creating visualizations, the Power BI Service, and the Power BI Mobile Ap

Target Audience:

The course will likely be attended by SQL Server report creators who are interested in alternative methods of presenting data.

Objectives:

- After completing this course, students will be able to:
- Perform Power BI desktop data transformation.
- Describe Power BI desktop modelling.
- Create a Power BI desktop visualization.
- Implement the Power BI service.
- Describe how to connect to Excel data.
- Describe how to collaborate with Power BI data.
- Connect directly to data stores.
- Describe the Power BI developer API.
- Describe the Power BI mobile app.

Prerequisites:

Before attending this course, students must have:

- Some basic knowledge of data warehouse schema topology (including star and snowflake schemas)
- Some exposure to basic programming constructs (such as looping and branching)
- An awareness of key business priorities such as revenue, profitability, and financial accounting is desirable.
- Familiarity with Microsoft Office applications – particularly Excel

Content:

Module 1: Power BI Desktop Data Transformations

This module describes how to import fata into Power BI.Lessons

- What is Power BI?
- Power BI data
- TransformationsLab : Import Data to Power BI
- Import data to Power BI desktop
- Import data from CSV files
- Import data from a less structured file

After completing this module, students will be able to:

- Describe what Power BI is and what it does.
- Describe the types of data.
- Perform data transformations.
- Optimize data models.
- Perform calculations with Power BI data.
- Visualize data using Power BI
- Work with multiple visualizations.
- Work with the Power BI service.
- Configure a Power BI dashboard.
- Import data from excel.
- Share data for collaborative purposes.
- Create, edit, and share content packs.
- Access data in SQL Azure.
- Describe the developer API.
- Use the developer API to create custom visuals.
- Describe the Power BI mobile app.
- Download and use the Power BI mobile app.
- Describe Power BI embedded and when you would want to use it.

Module 2: Power BI Desktop Modeling

This module introduces Power BI desktop modeling.Lessons

- Optimizing data models
- Calculations
- HierarchiesLab : Manage Power BI data
- Manage table relationships
- Last year comparison
- Year to date
- Market share
- Optimize the data model

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- Visualize data using Power BI
- Work with multiple visualizations.

This module describes how to implement the Power BI service.Lessons

- Working with the Power BI service
- Configuring a dashboard
- Viewing a Power BI DashboardLab : Implementing the Power BI service
- Upload a Power BI report
- Share a Power BI dashboard
- Configure data refresh

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View a Power BI dashboard.

Module 5: Working with Excel

This module describes how to connect to Excel as a source of data.Lessons

- Importing data from excel
- Analyzing data in ExcelLab : Working with Excel
- Uploading an Excel file with an Excel table
- Uploading an Excel file with a data model

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This module describes various connectivity options using Power BI.Lessons

- Cloud data
- Connecting to analysis servicesLab : Direct Connectivity
- Direct connectivity from Power BI desktop
- Direct connectivity from the Power BI service

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Connect to SQL Server Analysis Services.

Module 8: Developer API

This module describes the developer API within Power BI.Lessons

- The developer API
- Custom visualsLab : Using the developer API
- Using custom visuals

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Describe and create hierarchies.

Module 3: Power BI Desktop Visualization

At the end of this module students will be able to create a Power BI desktop visualization.Lessons

- Visualizing your data
- Working with multiple visualizations Lab : Create reports with visualizations
- Cross-tabular reports
- Part-to-Whole reports
- Relationship reports
- Trend reports
- Rank reports

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Module 4: Power BI Service

- Work with the Power BI service.
- Configure a Power BI dashboard.
- Import data from excel.
- Share data for collaborative purposes.
- Create, edit, and share content packs.
- Access data in SQL Azure.
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Analyze data in Excel.

Module 6: Organization Content Packs, Security, and groups

This module describes how to collaborate with Power BI data.Lessons

- Collaboration
- Content packsLab : Working with Organization Content Packs
- Create a content pack
- Edit a content pack
- Share a content pack

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Module 7: Direct Connectivity

- Share data for collaborative purposes.
- Create, edit, and share content packs.
- Access data in SQL Azure.
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Module 9: Power BI mobile app

This module describes the Power BI mobile app.Lessons

- The Power BI mobile app
- Using the Power BI mobile app
- Power BI embedded

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Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931

info@globalknowledge.co.uk

www.globalknowledge.com/en-gb/

Global Knowledge, Mulberry Business Park, Fishponds Road, Wokingham Berkshire RG41 2GY UK