

Microsoft Power BI Data Analyst

Varighet: 3 Days Kurskode: M-PL300 Opplæringsmetoder: Virtuell opplæring

Beskrivelse:

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.

Virtuell opplæring

V&C Select™ er et veldig enkelt konsept og svært fleksibelt. Du kan delta personlig i klassen eller som virtuell deltaker. Når deres team er geografisk splittet eller du har et begrenset reisebudsjett kan du benytte deg av vår virtuelle klasserom. Kursinnholdet er akkurat det samme som i et vanlig klasserom og deltakerne får en instruktør "live" via internett. Deltaker kan chatte og snakke med sin instruktør og sine medstudenter. Global Knowledge vil sende deg all informasjon du trenger før kurset slik at du kan teste innlogging.

Målgruppe:

The audience for this course are 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.

Agenda:

- 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

Forkunnskaper:

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.
- You can gain the prerequisites and a better understanding of working with data in Azure by completing M-DP900 Microsoft Azure Data Fundamentals before taking this course.

Test og sertifisering

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Innhold:

Module 1: Get Started with Microsoft Data Analytics

This module explores the different roles in the data space, outlines the important roles and responsibilities of a Data Analysts, and then explores the landscape of the Power BI portfolio.

- Data Analytics and Microsoft
- Getting Started with Power BI

After completing this module, students will be able to:

- Explore the different roles in data
- Identify the tasks that are performed by a data analyst
- Describe the Power BI landscape of products and services
- Use the Power BI service
- Identify and retrieve data from different data sources
- Understand the connection methods and their performance implications
- Use Microsoft Dataverse
- Connect to a data flow
- Apply data shape transformations
- Enhance the structure of the data
- Profile and examine the data
- Understand the basics of data modeling
- Define relationships and their cardinality
- Implement Dimensions and Hierarchies
- Understand DAX
- Use DAX for simple formulas and expressions
- Create calculated tables and measures
- Build simple measures
- Work with Time Intelligence and Key Performance Indicators
- Understand the importance of variables
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- Design a report page layout
- Select and add effective visualizations
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- Enhance Dashboard usability
- Use the Analyze feature
- Identify outliers in data
- Use the AI visuals
- Use the Advanced Analytics custom visual
- Create and manage a workspace
- Understand workspace collaboration
- Monitor workspace usage and performance
- Distribute an App
- Manage datasets and parameters
- Build dynamic reports with parameters
- Schedule dataset refresh
- Troubleshoot gateway service connectivity

This module introduces you to the world of DAX and its true power for enhancing a model. You will learn about aggregations and the concepts of Measures, calculated columns and tables, and Time Intelligence functions to solve calculation and data analysis problems.

- 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

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Module 9: Identify Patterns and Trends in Power BI

This module helps you apply additional features to enhance the report for analytical insights in the data, equipping you with the steps to use the report for actual data analysis. You will also perform advanced analytics using AI visuals on the report for even deeper and meaningful data insights.

- Advanced Analytics
- Data Insights through AI visuals

Lab : Data Analysis in Power BI Desktop

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

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- Use the Advanced Analytics custom visual
- Create and manage a workspace

- Implement row-level security using both the Static and Dynamic methods

Module 2: Getting Data in Power BI

This module explores identifying and retrieving data from various data sources. You will also learn the options for connectivity and data storage and understand the difference and performance implications of connecting directly to data vs. importing it.

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

Lab : Preparing Data in Power BI Desktop

- Prepare Data

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Module 6: Optimize Model Performance in Power BI

In this module you are introduced to steps, processes, concepts, and data modeling best practices necessary to optimize a data model for enterprise-level performance.

- Optimize the data model for performance
- Optimize DirectQuery Models

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Module 10: Create and Manage Workspaces in Power BI

This module will introduce you to Workspaces, including how to create and manage them. You will also learn how to share content, including reports and dashboards, and then learn how to distribute an App.

- Creating Workspaces
- Sharing and Managing Assets

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

This module teaches you the process of profiling and understanding the condition of the data. They will learn how to identify anomalies, look at the size and shape of their data, and perform the proper data cleaning and transforming steps to prepare the data for loading into the model.

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

Lab : Loading Data in Power BI Desktop

- Loading Data

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Module 7: Create Reports in Power BI

This module introduces you to the fundamental concepts and principles of designing and building a report, including selecting the correct visuals, designing a page layout, and applying basic but critical functionality. The important topic of designing for accessibility is also covered.

- 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

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Module 11: Manage Files and Datasets in Power BI

This module will introduce you to parameters and datasets. You will also learn how to manage datasets and parameters, build dynamic reports with parameters, and set dataset refresh options.

- Parameters
- Datasets

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Module 4: Design a Data Model in Power BI

This module teaches the fundamental concepts of designing and developing a data model for proper performance and scalability. This module will also help you understand and tackle many of the common data modeling issues, including relationships, security, and performance.

- 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

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Module 8: Create Dashboards in Power BI

In this module you will learn how to tell a compelling story through the use of dashboards and the different navigation tools available to provide navigation. You will be introduced to features and functionality and how to enhance dashboards for usability and insights.

- 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

After completing this module, students will be able to:

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Module 12: Row-level Security in Power BI

This module will introduce you to row-level security, both static and dynamic methods, and how to implement.

- Security in Power BI

Lab : Enforce Row-Level Security

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

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Performance Indicators

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Module 5: Create Model Calculations using DAX in Power BI

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Ytterligere informasjon:

For mer informasjon eller kursbooking, vennligst ring oss 22 95 66 00

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