



PL-300T00 - Microsoft Power BI Data Analyst

Microsoft - Power Platform - Business Intelligence

Durata:

3 Giorni

Lingue:

Italiano

Certificazione:

Microsoft Certified: Power BI Data Analyst Associate

Descrizione del corso

This course covers 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 show how to access and process data from a range of data sources including both relational and non-relational sources. Finally, this course will also discuss how to manage and deploy reports and dashboards for sharing and content distribution. 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.

This course is part of "Microsoft Certified: Power BI Data Analyst Associate" Certification.

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.

Programma

Module 1: Get data from data sources

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- Identify and connect to a data source
- Change data source settings, including credentials, privacy levels, and data source locations
- Select a shared dataset, or create a local dataset
- Choose between DirectQuery, Import, and Dual mode
- Change the value in a parameter

Module 2: Transform and load the data

- Select appropriate column data types
- Create and transform columns
- Transform a query
- Design a star schema that contains facts and dimensions
- Identify when to use reference or duplicate queries and the resulting impact
- Merge and append queries
- Identify and create appropriate keys for relationships
- Configure data loading for queries

Module 3: Clean the data

- Evaluate data, including data statistics and column properties
- Resolve inconsistencies, unexpected or null values, and data quality issues
- Resolve data import errors

Module 4: Design and implement a data model

- Configure table and column properties
- Implement role-playing dimensions
- Define a relationship's cardinality and cross-filter direction
- Create a common date table
- Implement row-level security roles

Module 5: Create model calculations by using DAX

- Create single aggregation measures
- Use CALCULATE to manipulate filters
- Implement time intelligence measures

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- Identify implicit measures and replace with explicit measures
- Use basic statistical functions
- Create semi-additive measures
- Create a measure by using quick measures
- Create calculated tables

Module 6: Optimize model performance

- Improve performance by identifying and removing unnecessary rows and columns
- Identify poorly performing measures, relationships, and visuals by using Performance Analyzer
- Improve performance by choosing optimal data types
- Improve performance by summarizing data

Module 7: Create reports

- Identify and implement appropriate visualizations
- Format and configure visualizations
- Use a custom visual
- Apply and customize a theme
- Configure conditional formatting
- Apply slicing and filtering
- Configure the report page
- Use the Analyze in Excel feature
- Choose when to use a paginated report

Module 8: Enhance reports for usability and storytelling

- Configure bookmarks
- Create custom tooltips
- Edit and configure interactions between visuals
- Configure navigation for a report
- Apply sorting
- Configure sync slicers
- Group and layer visuals by using the Selection pane
- Drill down into data using interactive visuals
- Configure export of report content, and perform an export

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- Design reports for mobile devices

Module 9: Identify patterns and trends

- Use the Analyze feature in Power BI
- Use grouping, binning, and clustering
- Incorporate the Q&A feature in a report
- Use AI visuals
- Use reference lines, error bars, and forecasting
- Detect outliers and anomalies
- Create and share scorecards and metrics

Module 10: Create and manage workspaces and assets

- Create and configure a workspace
- Assign workspace roles
- Configure and update a workspace app
- Publish, import, or update assets in a workspace
- Create dashboards
- Choose a distribution method
- Apply sensitivity labels to workspace content
- Configure subscriptions and data alerts
- Promote or certify Power BI content
- Manage global options for files

Module 11: Manage datasets

- Identify when a gateway is required
- Configure a dataset scheduled refresh
- Configure row-level security group membership
- Provide access to datasets

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