Zetlan Technologies

Microsoft Power BI Data Analyst

Online Course

Microsoft Power BI Data Analyst

Course Modules

1. **Prepare the data**

Get data from data sources
- Identify and connect to a data source
- Change data source settings, including credentials, etc.,
- Select Shared semantic model, or create a local data model
- Choose between DirectQuery, Import, and Dual mode
- Change the value in a parameter

Clean the data
- Evaluate data, including data statistics & column properties
- Resolve inconsistencies, unexpected, & data quality issues
- Resolve data import errors

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 Reference or duplicate queries & the result impact
- Merge and append queries
- Identify and create appropriate keys for relationships
- Configure data loading for queries

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2. Model the data

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

Create model calculations by using DAX
- Create single aggregation measures
- Use CALCULATE to manipulate filters
- Implement time intelligence measures
- 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

Optimize model performance
- Identifying and removing unnecessary rows and columns
- Poorly performing measures, relationships, & visuals
- Improve performance by choosing optimal data types
- Improve performance by summarizing data

3. Visualize and analyze the data

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

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
- Design reports for mobile devices

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

4. Deploy and maintain items

Create and manage workspaces and items
- Create and configure a workspace
- Assign workspace roles
- Configure and update a workspace app
- Publish, import, or update items 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

Manage semantic models
- Identify when a gateway is required
- Configure a semantic model scheduled refresh
- Configure row-level security group membership
- Provide access to semantic models

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REMOTELY!!

The efficiency of online learning
in terms of time management,
flexibility, and the ability
to access resources anytime,
anywhere can be compelling.

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