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Analyzing and Visualizing Data with Power BI

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➤ What is Power BI

▼ 1. Power BI Desktop Data Transformations

▼ Transforming Data using Power BI Desktop Quiz

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▼ Lab 1 Lab

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▼ 2. Power BI Desktop Modelling

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Optimizing Models for Reporting



Creating Calculated Measures



Creating and Managing Hierarchies



Using Calculated Tables



Time Intelligence



Manually Typing in a Data Table



Include Exclude



Grouping Binning



Summary



Knowledge Checks

Lab 2 Lab

Lab Overview



Exercise 1- Manage Table Relationships

Exercise 2- Last Year Comparison

Exercise 3- Year to Date

Exercise 4- Market Share

Exercise 5- Optimize the Data Model



3. Power BI Desktop Visualization

Visualizing Your Data Quiz

Introduction



Pie and Treemap



Hierarchical Axis and Concatenating



Filter (Including TopN)



Bar Chart with Line



Analytics Pane



Clustering (and Machine Learning)



Slicer



Focus Mode and See Data



Date Slicer	✓
Map and Filled Map	✓
ESRI Map	✓
Table and Matrix	✓
Table Styles	✓
Scatter Chart	✓
Waterfall	✓
Gauge, Card, and KPI	✓
Coloring Charts	✓
Shapes, Textboxes, and Images	✓
Gridlines and Snap to Grid	✓
Knowledge Checks	
▼ Working with Multiple Visualizations Quiz	
Page Layout and Formatting	✓
Visual Relationship	✓
Duplicate Page	✓
Categories with No Data	✓
Default Summarization and Categorization	✓
Positioning, Aligning, and Sorting Visuals	✓
Custom Hierarchies	✓
R - Visual Integration	✓
Summary	✓
Knowledge Checks	
▼ Lab 3 Lab	
Lab Overview	✓
Exercise 1- Cross-Tabular Report	
Exercise 2- Part-to-Whole Report	
Exercise 3- Relationship Report	

Exercise 4- Trend Report

Exercise 5- Rank Report

▼ 4. Power BI Service

▼ Working with Power BI Service Quiz

Introduction	✓
Overview of Dashboards and Service	✓
Uploading to Power BI Service	✓
Quick Insights	✓
Configuring a Dashboard	✓
Adding Textbox, Image Widgets	✓
Featured and Favorite Dashboard	✓
Filtering Dashboard	✓
Dashboard Settings	✓
Natural Language Queries	✓
Featured Questions	✓
Sharing a Dashboard	✓
In-Focus Mode	✓
Pinning a Live Page	✓
Custom URL and Title	✓
TV Mode and Collapse Navigation	✓
Printing Dashboard and Exporting Data	✓
Export to CSV and Excel	✓
Power BI Notifications	✓
Alerts in the Power BI Service	✓
Personal Gateway	✓
Publishing to Web	✓
Admin Portal	✓
Knowledge Checks	

▼ Viewing Power BI Dashboard	✓
Viewing in Windows App	✓
Viewing in Android App	✓
Viewing in iPad	✓
Viewing in iPhone	✓
Summary	✓

▼ Lab 4 Lab	
Lab Overview	✓
Exercise 1- Upload PBI Report and Pin Visualizations	
Exercise 2- Share Dashboard and Update Report	
Exercise 3- Schedule Data Refresh	

▼ 5. Working with Excel

▼ Connecting and Collaborating with Excel Quiz	
Introduction	✓
Importing Excel Data using Simple Table	✓
Excel Workbook with Excel Data Model	✓
Connecting to Excel Workbook on OneDrive for Business	✓
Pinning Excel Tables or Visuals	✓
Analyzing Data in Excel	✓
Summary	✓
Knowledge Checks	

▼ Lab 5 Lab	
Lab Overview	✓
Exercise 1- Upload Excel File with an Excel Table	
Exercise 2- Upload an Excel File with a Data Model	

▼ 6. Direct Connectivity

▼ Direct Connectivity

Quiz

Introduction



Direct Connectivity to SQL Azure



Direct Connectivity to SQL Database



Direct Connectivity to SSAS



Using SSAS Connector



SSAS Multi Dimensional Preview



SAP HANA



Summary



Knowledge Checks

▼ Lab 7

Lab

Lab Overview



Exercise 1- Direct Connectivity From Power BI Desktop

Exercise 2- Direct Connectivity From Power BI Service

▼ 7. Developer API

▼ Developer API

Quiz

Introduction



Interactive API Console



Registering a Client App and Embedding a Tile



Integrating a Tile to Your App



Using PubNub to Push Data to a Tile



Creating Custom Visuals



Using Custom Visuals



Power BI Embedded



Summary



Knowledge Checks

▼ Lab 8
Lab

[Lab Overview](#)



[Exercise- Use Custom Visuals](#)

▼ 8. Mobile App



➤ Mobile App



▼ Course Wrap-up

➤ Course Wrap-up



▼ Post-course Survey
Survey

[Survey](#)



[Survey Acknowledgment](#)

Goal: Complete the course



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in 2 months - Jun 30, 2019

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