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Analyzing and Visualizing Data with Power BI

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Welcome to Analyzing and Visualizing Data with Power BI

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▼ Welcome to the Course!

[Welcome!](#)

Course Basics	✓
Schedule and Grading	✓
✓ Set up the Lab Environment	✓
Installing Power BI Desktop	✓
Signing up for Power BI Service	✓
✓ DataSet / Examples Usage	✓
DataSet / Examples Terms of Usage and Disclaimer	✓
✓ Pre-course survey Survey	
Survey	✓
Survey Acknowledgement	
✓ 0. Introduction	✓
✓ What is Power BI?	✓
Meet the Presenters	✓
Introduction	✓
Overview of Power BI	✓
Connecting to Software as Services	✓
Power BI Community	✓
Summary	✓
✓ 1. Power BI Desktop Data Transformations	
✓ Transforming Data using Power BI Desktop Quiz	
Introduction to Power BI Desktop	✓

Changing Locale	✓
Connecting to a Database	✓
Basic Transformations	✓
Managing Query Groups	✓
Splitting Columns	✓
Changing Data Types	✓
Working with Dates	✓
Removing and Reordering Columns	✓
Conditional Columns	✓
Connecting to Files in a Folder	✓
Merge Queries	✓
Query Dependency View	✓
Transforming Less Structured Data	✓
Enter Data	✓
Query Parameters	✓
Summary	✓
Knowledge Checks	
▼ Lab 1	✓
Lab	
Lab Overview	✓
Exercise 1: Import Data from Access Database	✓
Exercise 2: Import Data from a Folder Containing CSV Files	✓

Exercise 3: Import a Less Structured Data from an Excel File



✓ 2. Power BI Desktop Modelling

✓ Data Modelling in Power BI Desktop Quiz

Introduction



Managing Data Relationships



Creating Calculated Columns



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 (Combo Chart)



Analytics Pane



Clustering (and Machine Learning)



Slicer



Focus Mode and See Data



Date Slicer



Map Visualizations



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](#)

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▼ [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



▼ 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 6 
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 

Using PubNub to Push Data to a Tile 

Creating Custom Visuals 

Using Custom Visuals 

Power BI Embedded 

Summary 

Knowledge Checks

- ▼ Lab 7 
Lab

Lab Overview 

Exercise: Use Custom Visuals 

▼ 8. Mobile App

▼	Mobile App	✓
	Introduction	✓
	Report Gallery and Search	✓
	Mobile Dashboard Layout	✓
	Sharing and Annotating in Power BI Mobile	✓
	Taking Your Mobile Content Offline	✓
	Platform Specific Features	✓
	Search and Recent	✓
	Limiting Access to Mobile + MAM	✓
▼	Course Wrap-up	
▼	Course Wrap-up	✓
	Course Wrap-up	✓
▼	Post-course Survey Survey	
	Survey	✓
	Survey Acknowledgement	

Course Tools

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Today is Mar 13, 2019 10:31 CDT

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in 3 weeks - Mar 31, 2019

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in 3 weeks - Mar 31, 2019

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[Course Syllabus](#)

The lab files are available in the [GitHub site](#) for this course.

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