



Analyzing and Visualizing Data with Power BI

▼ Start Here

▼ 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	
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	✔
	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 Acknowledgment