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Analyzing and Visualizing Data with Power BI

[Resume Course](#)

Welcome to DAT207x: Analyzing and Visualizing Data with Power BI!

I want to welcome you to DAT207x: Analyzing and Visualizing Data with Power BI. My name is Jonathan Sanito. I work as a content developer for

Microsoft, and I'll be your host for this course.

In this course, you will learn how to connect, explore, and visualize data with Power BI. Power BI Desktop provides a free-form canvas for drag-and-drop data exploration as well as an extensive library of interactive visualizations, simple report creation, and fast publishing to the Power BI service.

This course is taught in short, lecture-based videos, complete with demos, quizzes, and hands-on labs. The Power BI product team will guide you through Power BI end-to-end, starting from how to connect to and import your data, author reports using Power BI Desktop, publish those reports to the Power BI service, create dashboards, and share to business users so that they can consume the dashboards through the web and their mobile devices.

To get started, view the Course page and view the topics in **Start Here!**, which will help you learn how to navigate the course content and get oriented with what to expect.

To get the most out of this course, please check out the **Set up the Lab Environment** section, install Power BI Desktop and sign-up for Power BI account with your business email address. You will need Power BI account starting from the "Power BI Service" module, so if you want to delay signing-up for Power BI account till then you can do so.

Self-Paced Format

The course is designed for self-paced study of around **2-4 hours per week** for **six weeks**, including lectures, quizzes, labs and further readings. All quizzes and lab exercises are graded. The quizzes account for **30%** of the total grade, the lab exercises accounts for **65%** of the total grade, and the mandatory survey accounts for the remaining **5%**. You must achieve an overall score of **70%** to pass the course.

You can listen to the lecture, attempt the quizzes, and work on the labs exercises at anytime prior to the deadline. In the quizzes/labs, you have between one to four maximum attempts at each question, depending on the type of the question.

Certificate

The course offers a Verified Certificate. An edX verified certificate shows that you have successfully completed your edX course and verifies your identity through your photo and ID. It's also a great way to give yourself an incentive to complete the course and celebrate your success.

You can check your progress on the **Progress** page. When you have achieved the passing grade, you can click the **Request Certificate** button to receive your certificate.

Discussion Forum

We are using the Power BI Community Site forum for this course. You will have access to the community of Power BI enthusiasts and the team behind the awesome tool. We welcome your feedback, so if something is confusing or doesn't work the way you expect, let us know and we'll do our best to address it. Please use the **Discussion** to introduce yourself and let us know how you're doing. I want continue to encourage everyone to actively use the forum to ask questions, give feedback, and even help your fellow learners. However, please do not post quiz answers and actual code in the **forum**. I'm sure we all can ask questions and give feedback without taking the opportunity to learn from others.

Community TAs

Teaching Assistants (TAs) are here to help students, provide guidance, and moderate the discussion forum. With the huge amount of students enrolled in this course, please understand that not every questions can be answered by the course staff and TA. We appreciate that a lot of you are actively helping your peers. Community is one of the aspect that makes learning experience great!

[Collapse All](#)

▼	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 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



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. Organization Packs, Security and Groups	✓
▼	Working with Others Quiz	✓
	Introduction	✓
	Creating a Group	✓
	Creating a Content Pack	✓
	Using a Content Pack	✓
	Editing a Content Pack	✓
	OneDrive for Business Integration	✓
	Row Level Security	✓
	Data Classification	✓
	Summary	✓
	Knowledge Checks	✓
▼	Lab 6 Lab	✓
	Lab Overview	✓
	Exercise: Create, Edit, and Share Content Pack	✓

▼ 7. 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

▼ 8. 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 8



Lab



Lab Overview



Exercise: Use Custom Visuals



9. 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

[Bookmarks](#)[Updates](#)

Important Course Dates

Course End

3 months ago - Oct 1, 2018

This course is archived, which means you can review course content but it is no longer active.

Today is Dec 29, 2018 12:50 IST

Course Handouts

[Course Syllabus](#)

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



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