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# Analyzing and Visualizing Data with Excel

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## Welcome to DAT206x: Analyzing and Visualizing Data with Excel!

I want to welcome you to DAT206x: Analyzing and Visualizing Data with Excel. My name is

Jonathan Sanito. I work as a content developer for Microsoft, and I'll be your host for this course.

Excel is one of the most widely used solutions for analyzing and visualizing data. Beginning with Excel 2010, new tools were introduced to enable the analysis of more data, to improve visualizations and to enable more sophisticated business logic. In this course, you will learn about latest versions of these tools in Excel 2016. You will see how to import data from different sources, create mashups between data sources, and prepare the data for analysis. You will learn about how business calculations—from simple to more advanced—can be expressed using the DAX calculation engine. You will also learn how the data can be visualized in Excel and shared to the Power BI cloud service.

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, and ensure you have the required system requirements.

### 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 course end date on the Home page. 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 Verified Certificates. If you plan to use this course for job applications, promotions, or school applications, you may prefer to have 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. If you signed up for verified certificate, when you have achieved the passing grade, you can click the **Request Certificate** button to receive your certificate.

## Discussion Forum

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](#) board 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!

[Expand All](#)

## ▼ Start Here!

### ▼ Welcome to the Course!



Welcome!



Course Basics



Schedule and Grading



### ▼ Set up the Lab Environment

Which Excel Version Should I Use?



Install Office 2016 Professional Plus Trial



Notes for Using Non-Supported Excel 2016



Notes for Using Supported Excel 2013



Notes for Using Non-Supported Excel 2013



Notes for Using Excel 2010

### ▼ DataSet / Examples Usage



DataSet / Examples Usage



### ▼ Pre-course Survey Survey



Survey



Survey Acknowledgement



## ▼ Module 1






















### ▼ Data Analysis in Excel Quiz

Lecture



(Optional) Create an Excel Table

(Optional) Using VLOOKUP

Quiz	
▼ Lab: Explore and Extend a Classic Excel Dashboard Lab	
Lab Overview	
Exercise 1: Explore the Classic Excel Dashboard	
Exercise 2: Extend the Classic Excel Dashboard	
Applying Conditional Formatting	
▼ Module 2	
▼ The Excel Data Model Quiz	
Lecture	
Quiz	
▼ Basic DAX Quiz	
Lecture	
A Little Bit More About DAX	
Quiz	
▼ Lab: Explore an Excel Data Model Lab	
Lab Overview	
Exercise 1: Explore the Excel Data Model	
Exercise 2: Create a Pivot Table	
Exercise 3: Create Measures	
Tips and Tricks	
▼ Module 3	

▼	Importing Data from a CSV File Quiz	✓
	Lecture	✓
	Remarks on Using Excel 2010	✓
	(Optional) From PDF to Data Model using Flash Fill	✓
	Quiz	✓
▼	Lab: Importing Data from a CSV File Lab	✓
	Lab Overview	✓
	Exercise 1: Import Data from a CSV File	✓
	Exercise 2: Create Pivot Table(s) to Perform Analysis	✓
▼	Module 4	✓
▼	Importing Data from Databases Quiz	✓
	Lecture	✓
	Quiz	✓
▼	Importing Data from Multiple Files Quiz	✓
	Lecture	✓
	Quiz	✓
▼	Create a Date Table in Excel Data Model	✓
	Create a Date Table in Excel Data Model	✓
▼	Lab: Creating Mash-ups of Data from Multiple Sources Lab	✓
	Lab Overview	✓



## Exercise 1: Import Data from SQL Database and Create Table Relationship



### Workaround



## Exercise 2: Import Data from a Folder Containing CSV Files



## Exercise 3 (Optional): Create a Date Table



### Tips and Tricks 1



### Tips and Tricks 2



### Tips and Tricks 3



## Module 5



### Creating and Formatting Measures Quiz



#### Lecture



#### Quiz



### Using Advanced DAX Functions Quiz



#### Lecture



#### More on DAX



#### Quiz



### Lab: Creating Measures using Advanced DAX Functions Lab



#### Lab Overview



#### Exercise 1: Last Year Comparison



#### Exercise 2: Year to Date



#### Exercise 3: Market Share



## Module 6

▼	Importing Data from a Formatted Excel Report Quiz	✓
	Lecture	✓
	Quiz	✓
▼	Lab: Advanced Text Query Lab	✓
	Lab Overview	✓
	Exercise: Import Data from a Formatted Excel File	✓
▼	Module 7	✓
▼	Visualizing Data in Excel Quiz	✓
	Lecture	✓
	(Optional) Cube Functions	✓
	(Optional) Treemap Chart using CUBE Functions	✓
	Quiz	✓
▼	Lab: Data Visualizations in Excel Lab	✓
	Lab Overview	✓
	Exercise 1: Tabular Report	✓
	Exercise 2: Part-to-Whole Report	✓
	Exercise 3: Monthly Sales Pattern	✓
	Tabular Report Formatting	✓
▼	Module 8	✓
▼	Using Excel with Power BI Quiz	✓

[Lecture](#)[Quiz](#)

▼ [Power BI Mobile App Quiz](#)

[Lecture](#)[Quiz](#)

▼ [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

1 year ago - Jan 1, 2018

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

**Today is Dec 20, 2018 10:08 IST**

## Course Handouts

[Course Syllabus](#)

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





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