

# DAT207x: Analyzing and Visualizing Data with Power BI

## Course Prerequisites

Some experience in working with data from Excel, databases, or text files.

## Course Schedule

This course is available in self-paced format. The deadlines associated with the graded quizzes and labs are set to the end date of the course, which is displayed on the **Home** page of the course. You should complete the quizzes/labs on your own to fully learn the material before you start the next module.

### Week 1

- Understanding key concepts in business intelligence, data analysis, and data visualization
- Importing your data and automatically creating dashboards from services such as Marketo, Salesforce, and Google Analytics
- Connecting to and importing your data, then shaping and transforming that data
- Enriching your data with business calculations

### Week 2

- Visualizing your data and authoring reports

### Week 3

- Scheduling automated refresh of your reports
- Creating dashboards based on reports and natural language queries
- Sharing dashboards across your organization
- Consuming dashboards in mobile apps
- Leveraging your Excel reports within Power BI
- Creating custom visualizations that you can use in dashboards and reports
- Collaborating within groups to author reports and dashboards
- Sharing dashboards effectively based on your organization's needs

### Week 4

- Exploring live connections to data with Power BI
- Connecting directly to SQL Azure, HD Spark, and SQL Server Analysis Services
- Introduction to Power BI Development API
- Leveraging custom visuals in Power BI

## Expected Effort

Each week, you should expect to spend 2-4 hours on the course, including:

- Viewing the lecture videos and demonstrations
- Completing the quizzes
- Completing the lab exercises
- Further reading

## Coursework and Grading

This course includes coursework, some of which is graded. Each module in the course includes lecture videos, graded short quizzes, and graded lab exercises. The quizzes account for 30% of the total grade, the lab exercises accounts for 65% of the total grade, and the two mandatory surveys account for the remaining 5%. You must achieve an overall score of 70% to pass the course. For the quizzes/labs questions, you have between one to four maximum attempts at each question, depending on the type of the question.

## Discussion

We encourage all students to submit questions, observations, and comments in the Discussion section. If you have any issues while working on the course, check there first – your fellow students may have already found a resolution!

Please remember that the discussion forum is open to all students and staff, and while we love to see passionate engagement, abusive or inflammatory behavior will not be tolerated.

Due to the volume of students attending this course, it will not be possible for the course staff to answer every question individually. You should still post questions however, because in many cases, your fellow students may be able to help.