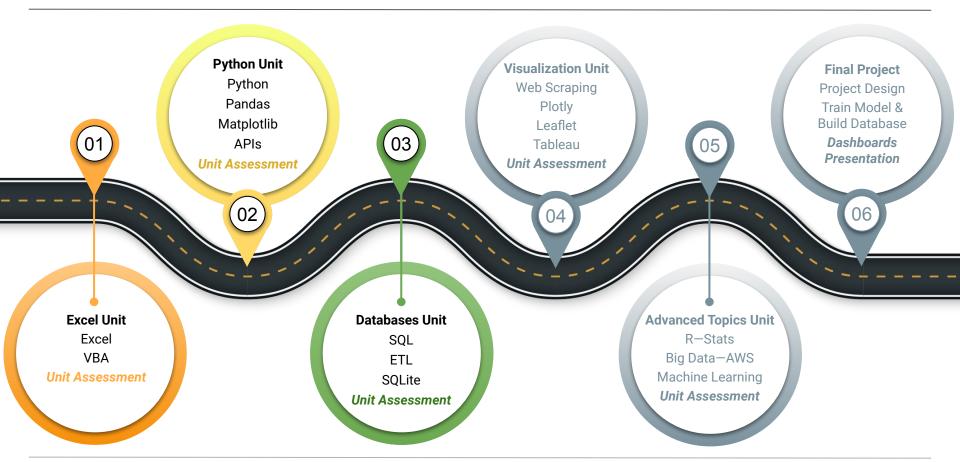


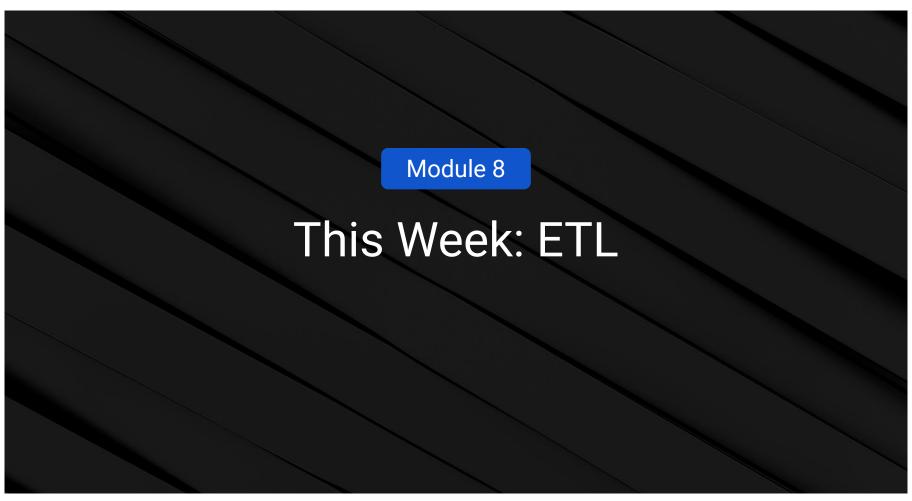
#### The Big Picture





#### **Bootcamp Pointer**

We're reaching a conceptually heavy point in the curriculum. This might feel like lots more work, but trust the process! Attend Office Hours, and ask for help.



#### This Week: Extract, Transform, and Load (ETL)

By the end of this week, you'll be able to



Extract data by using Python and Pandas.

02

Transform and clean data by using Python and Pandas.

03

Parse string data into a Python dictionary.

04

Use list comprehensions to make code more readable.

05

Use regular expressions to manipulate string data.



#### This Week's Challenge

You'll perform the ETL process on a new dataset. You'll have the option of using Pandas functions, list comprehensions, and regular expressions. You will then load the data into a PostgreSQL database.



#### **Career Connection**

How will you use this module's content throughout your career?

Module 8

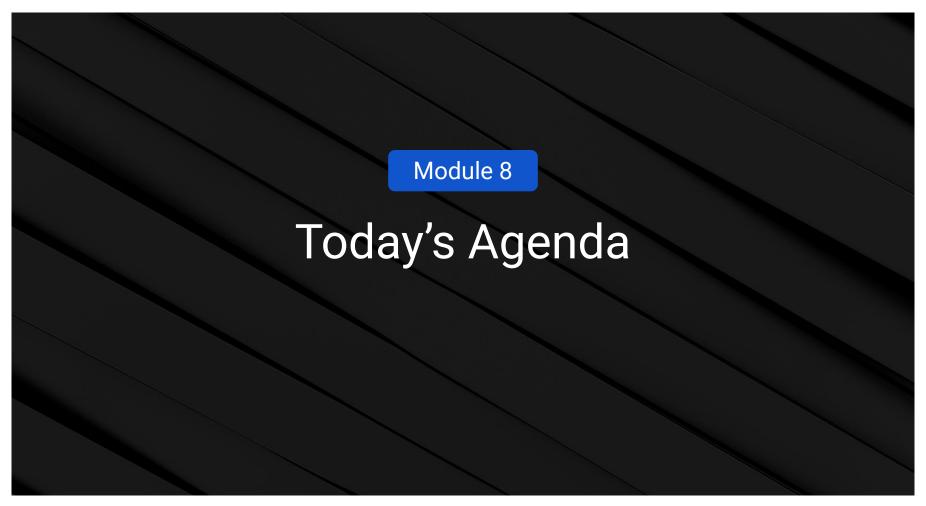
## How to Succeed This Week



#### **Quick Tip for Success:**

The Challenge and the activities in this module are purposely a bit more flexible!

Take this opportunity to step up and make organizational decisions about your datasets that mimic the work experience. You've been empowered to make decisions about your data!



#### Today's Agenda

By completing today's activities, you'll learn the following skills:



Use list comprehensions.



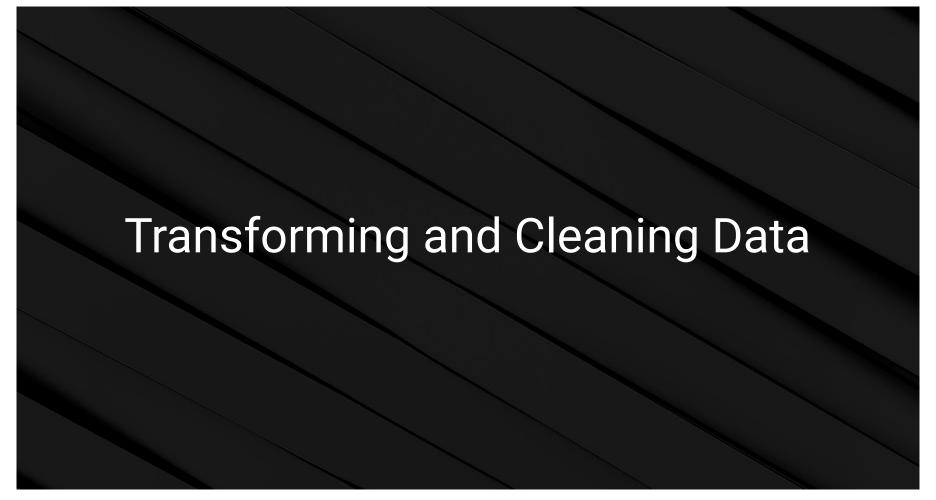
Use regular expressions.



Build an ETL pipeline.



Make sure you've downloaded any relevant class files!





#### **Instructor Demonstration**

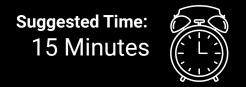
Data Transformation and Cleaning





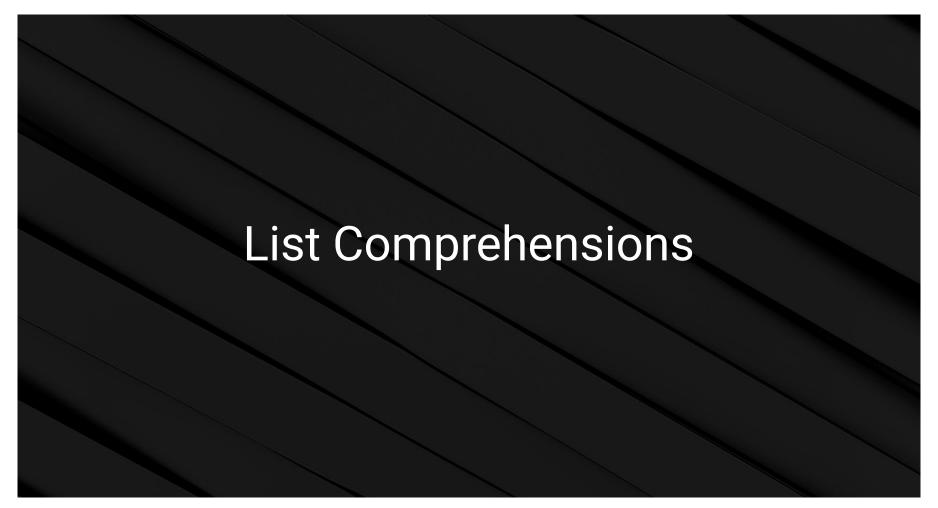
# **Activity:** Transform and Clean Online Orders

In this activity, you'll transform and clean a dataset to prepare it for upload into a database.





**Let's Review** 



#### **List Comprehensions**

A list comprehension includes three elements:

O1 An expression

O2 An element

An iterable object—like a list, dictionary, or tuple



#### **Instructor Demonstration**

List Comprehensions





### **Activity:** List Comprehensions

In this activity, you'll practice using list comprehensions.





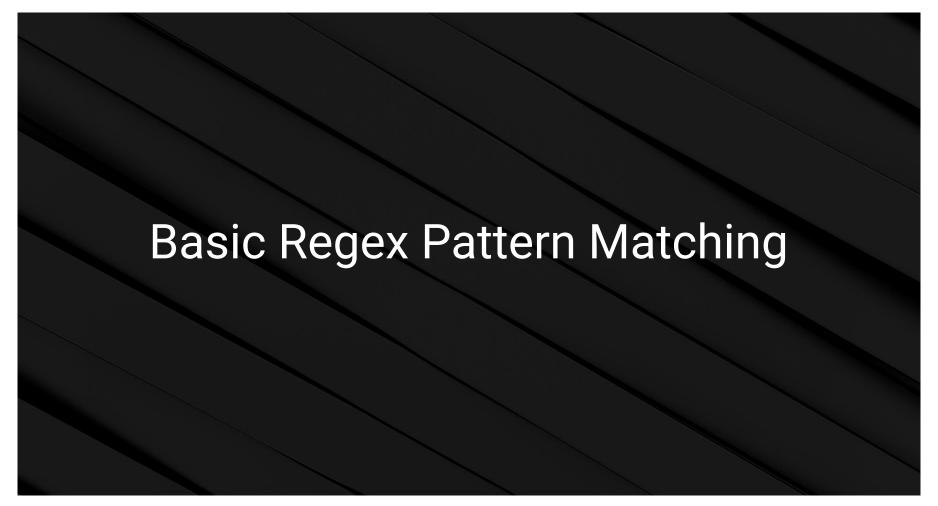
**Let's Review** 

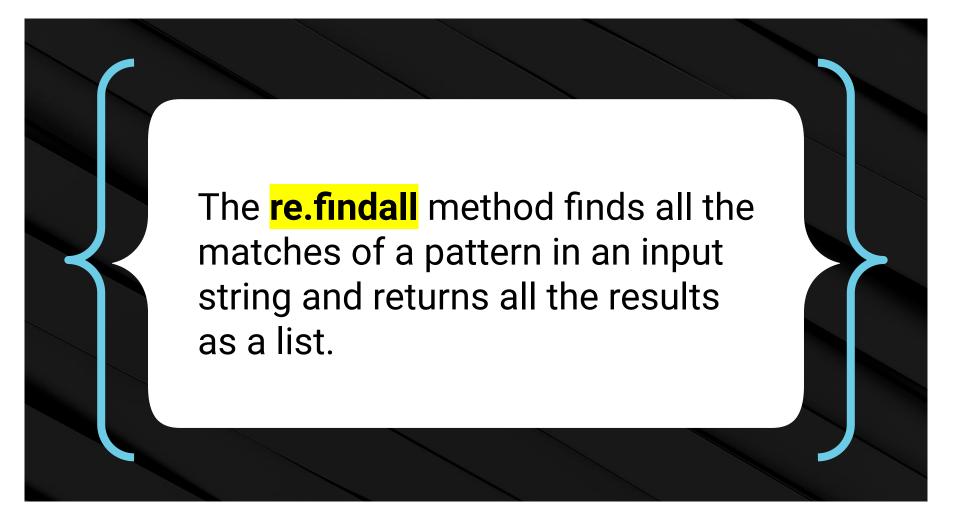


# **Group Activity: Transforming and Cleaning Grocery Orders**

In this activity, you'll transform and clean grocery data and then merge that data with another dataset.









#### **Instructor Demonstration**

Basic Regex Pattern Matching

