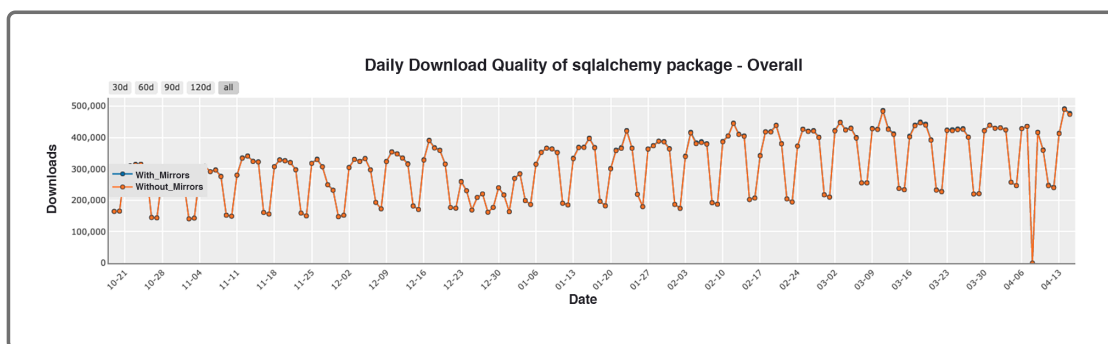# Module 9 Career Connection
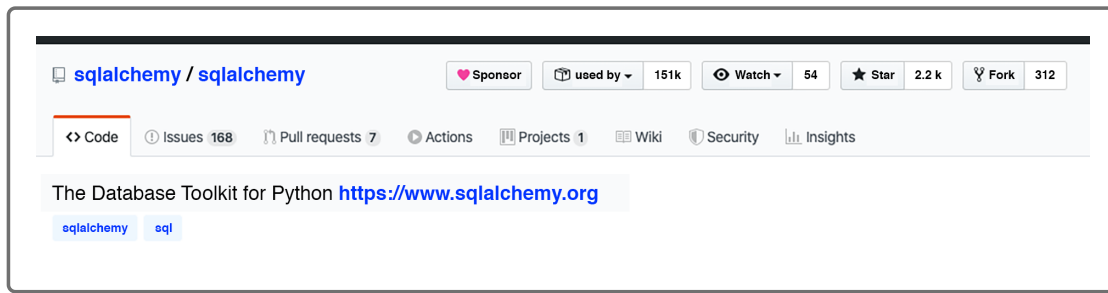
Web Scraping Skills Are in Demand

Nice work this week! You upped your database skills by adding in an ORM —SQLAlchemy—giving you increased power over your SQL database using Python! Using an ORM is insanely popular in the data world. Check out the following data, ranging from October 21, 2019, through April 13, 2020:

Source: **https://pypistats.org/packages/sqlalchemy**
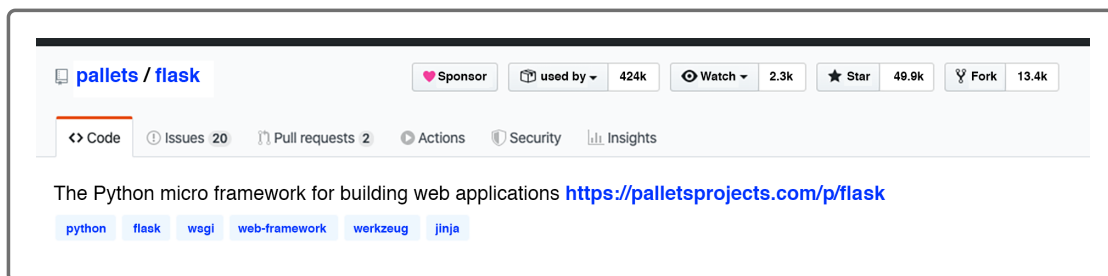**(https://pypistats.org/packages/sqlalchemy)**

Almost 500,000 daily downloads! Isn't that insane? Looking at SQLAlchemy's GitHub repository, you'll also notice it's used by some 151,000 major projects and has 312 forks:

sqlalchemy / sqlalchemy

Code   Issues 168   Pull requests 7   Actions   Projects 1   Wiki   Security   Insights

The Database Toolkit for Python https://www.sqlalchemy.org

sqlalchemy   sql

If these numbers don't mean a whole lot to you, just trust us when we say, SQLAlchemy is very popular. And it's only one of a whole host of ORMs out there that you might end up using.

And just like we discussed for SQL varieties, the different flavors of ORMs are mostly very similar. Their syntax is a little different, and some of them have different functionality, but for the most part, once you've learned SQLAlchemy well you'll have no trouble moving on to the next one!

On top of this, you also tackled Flask—an extremely popular web framework for setting up web applications with Python. Flask, along with Django, is among the top 2 frameworks used by Python developers. Again, checking out its GitHub stats is revealing: 424,000 major packages use Flask, and there are some 13,400 forks and 49,900 users have starred this repository!

pallets / flask

Code   Issues 20   Pull requests 2   Actions   Security   Insights

The Python micro framework for building web applications https://palletsprojects.com/p/flask

python   flask   wsgi   web-framework   werkzeug   jinja

And if you're really into the whole Flask thing, you might even check out PythonJobs.github.io, where Django and Flask positions are plentiful!

Find it here: **https://pythonjobs.github.io/**   **(https://pythonjobs.github.io/)**

Before we move on to some technical interview prep, you will need to do the following:

Add Technical Skills to Your Resume

Before you move on to the next module, make sure to add SQLAlchemy or Python-based ORM to the "Technical Skills" section on your resume.

DEEP DIVE ▼

Technical Interview Preparation

Look at the following code snippets, and try to answer the questions accompanying them.

Snippet #1

```python
from sqlalchemy.engine.url import URL
postgres_db = {'drivername': 'postgres',
               'username': 'postgres',
               'host': '192.168.99.100',
               'port': 5432}
print(URL(**postgres_db))
```

Question: What line of code is missing from setting up postgres_db with SQLAlchemy?

Answer: `'password': '<password>',` needs to be included in the setup object.

Snippet #2

```
# Declare a table
table = Table('Example',metadata,
              Column('id',Integer),
              Column('name',String))
```

Question: What line of code would you apply `primary_key=True` to?

Answer: The primary key could technically be either column, but common practice is to apply it to the id, so we'd get: `Column('id',Integer, primary_key=True)`

Snippet #3

```
from sqlalchemy import create_engine
from sqlalchemy import inspect
db_uri = 'sqlite:///db.sqlite'
engine = create_engine(db_uri)

inspector = inspect(engine)
# Get table information
print(inspector.get_table_names())
# Get column information
print(inspector.get_columns('EX1'))
```

Question: What does the above code do?

Answer: This code imports "inspect" from SQLAlchemy and uses the inspector to get the names of all tables and to get all columns from those tables in our database.

Continue to Hone Your Skills

If you're interested in learning more about the technical interviewing process and practicing algorithms in a mock interview setting, check out

our **upcoming workshops.** **(https://careernetwork.2u.com/?**
utm_medium=Academics&utm_source=boot_camp)

© 2020 - 2022 Trilogy Education Services, a 2U, Inc. brand. All Rights Reserved.

our **upcoming workshops.** **(https://careernetwork.2u.com/?**
utm_medium=Academics&utm_source=boot_camp)