

# Exercise 1.7: Finalizing Your Python Program

## Learning Goals

- Interact with a database using an object-relational mapper
- Build your final command-line Recipe application

## Reflection Questions

1. What is an Object Relational Mapper and what are the advantages of using one?

ORM is a programming technique that allows developers to map between objects in their code and tables in a relational database. ORM allows developers to work with objects in their code and reduces the amount of code need to be written. This can make it easier to read and understand the code.

2. By this point, you've finished creating your Recipe app. How did it go? What's something in the app that you did well with? If you were to start over, what's something about your app that you would change or improve?

So far, I have a decent understanding of everything that has been covered. I have some issues with mysql so far which was time consuming and also frustrating. I feel that working with my windows computer would of helped me out. Things that could be changed is adding more information to the app.

3. Imagine you're at a job interview. You're asked what experience you have creating an app using Python. Taking your work for this Achievement as an example, draft how you would respond to this question.

By this point I have learned how to install and use Python and IPython. I have a basic understanding and how to use data types, operators, and functions. I was able to learn about Object-Oriented Programming and trying to follow the DRY principals. Finally, I was able to learn what and how to use databases in python through mysql and ORM through mysqlclient and sqlalchemy.

4. You've finished Achievement 1! Before moving on to Achievement 2, take a moment to reflect on your learning in the course so far:

- a. What went well during this Achievement?

The reading and code practices really helped me get the knowledge to complete each task. I have enjoyed working with Python a lot so far. I like how everything is laid out in python compared to javascript. Excited to learn about the Django framework.

- b. What's something you're proud of?

I am proud of my ability to be able to commit to the reading in one sitting for the most part. This has allows me to maintain my focus on the Task throughout every section. I have also been supplementing my reading through watching videos on YouTube and exploring the Python tutorial.

- c. What was the most challenging aspect of this Achievement?

By far the most challenging aspect has been the last task trying to deal with mysqlclient. With my Mac m1 chip, mysql has not been able to work so far on it. I have resorted to working from my older Windows pc to try to deal with it.

- d. Did this Achievement meet your expectations? Did it give you the confidence to start working with your new Python skills?

I have definitely gained a lot more experience with Python which makes me feel better, however I do know that there is so much more to learn and practice with so I am eager to keep on working with it. So far it has been my favorite language to work with.

- e. What's something you want to keep in mind to help you do your best in Achievement 2?

I want to continue keeping up with the good habits that I have gained. Taking small 5 to 10 minute breaks in the learning has helped me maintain my focus for longer study periods. Finally I want to keep up with rereading my notes and highlights of the reading and supplementing my learning with 3rd parties to grasp a better understanding of everything I am learning.