

1. What are databases and what are the advantages of using them?

-Databases store collections of data electronically. For large projects or small projects databases allow for improved data accuracy, efficient data sharing and robust security features.

2. List 3 data types that can be used in MySQL and describe them briefly:

-Int: Represents a whole number with no fractional part, used for numerical data

-Varchar: Represents textual data with a variable length up to a specified length, used for storing names or any text

-DateTime: Represents date and times, used for records like time stamps

3. In what situations would SQLite be a better choice than MySQL?

-For some smaller mobile apps or apps that store data locally by a single user without the need for concurrent access by multiple users, SQLite might be a better option as it requires minimal set up and is fairly lightweight.

4. Think back to what you learned in the Immersion course. What do you think about the differences between JavaScript and Python as programming languages?

-I think at this point because I am still more familiar with JavaScript I prefer it to Python but there are several things I like about Python. I almost feel like Python is more straightforward and easier to read, however I have had some trouble with the syntax as it is quite specific.

5. Now that you're nearly at the end of Achievement 1, consider what you know about Python so far. What would you say are the limitations of Python as a programming language?

-I feel like I am struggling with my own ability to understand it as I am still in the beginning of the learning phase so I don't think I can really talk about the limitations yet. I haven't really come across any limitations but I have seen online that sometimes the run time can be slower and there is limited adaptability for the front end development, but again I have no experience with that so far.