

# EXERCISE 1.6: CONNECTING TO DATABASES IN PYTHON

## REFLECTION QUESTIONS

1. WHAT ARE DATABASES AND WHAT ARE THE ADVANTAGES OF USING THEM?

- DATABASES ARE LIKE A FILE THAT CAN BE ACCESSED BY ANYONE WHO IS GRANTED ACCESS TO BE READ, WRITE, EDIT AND DELETE INFORMATION STORED.

2. LIST 3 DATA TYPES THAT CAN BE USED IN MYSQL AND DESCRIBE THEM BRIEFLY:

Data Type	Definition
VARCHAR(n)	a string with the length deteremed by n
INT	whole integer numbers
DATETIME	values of date times

3. IN WHAT SITUATIONS WOULD SQLITE BE A BETTER CHOICE THAN MYSQL?

- SQLITE WOULD BE AN OPTIMAL CHOICE FOR STORING EMAILS OR VERY SIMPLE DATA AS IT DOES NOT REQUIRE SET UP OR INSTALLATION



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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?

- ALTHOUGH JAVASCRIPT CAN NOW INTERACT WITH THE BACKEND VIA NODE.JS, JAVASCRIPT IS PRIMARILY USED WITH FRONTEND INTERACTIONS WITH HTML AND CSS TO MAKE WEB PAGES MORE INTERACTIVE. WHILE PYTHON IS KNOWN FOR IT'S READABILITY AND SIMPLICITY AND MOSTLY USED FOR BACKEND SERVERSIDE DATABASES

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?

- PYTHON IS A SIMPLE LANGUAGE THAT I CAN SEE BEING UTILIZED THE BEST FOR BACKEND AND DATABASES WITH IT'S EASE OR READABILITY. I CAN SEE THE LIMITATIONS AT THE MOMENT WOULD BE THE TRANSLATION TO THE FRONTEND AND VISUAL SIDE OF PRESENTING THE DATA ON A WEBPAGE. I BELIEVE WE WILL BE LEARNING ABOUT IT IN THE NEXT ACHIEVEMENT THROUGH DJANGO.