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Week 9 BE research

Prompts

1. Research different constructs that are available in MySQL when retrieving data.

(a) How is data retrieved from a MySQL database?

- To retrieve data from a MySQL database, we use a SELECT statement. The basic form of a SELECT statement includes :
SELECT what you want back
FROM which table
WHERE the conditions you want the data to meet

(b) What clauses exist for restricting the data that is returned to the user?

- You can use LIMIT to limit how many rows you get back,

(c) Include the syntax for this type of request, and give an example.

- `SELECT * FROM customers WHERE first_name = "Rachel" LIMIT 5;`

2. What types of operations can you do in SQL (or specifically MySQL)? List at least five (5) different statements that exist in MySQL? Give a brief description of what these do.

- Arithmetic Operators: + - * / %
- & (and) | (or)
- Comparison operators: = > < >= <= <> (not equal to)
- Compound operators: += -= *= /= %=
- Logical operators: ALL AND ANY BETWEEN EXISTS IN LIKE NOT OR SOME
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3. What are wildcards in MySQL? How are they useful? Give an example of a MySQL statement that could use wildcards.

- Wildcard characters are used as a substitute for characters in a string. You use them with the LIKE operator in a WHERE clause. So you could use `SELECT * FROM customers WHERE first_name LIKE "R%";` to get all rows where first_name started with R.

4. Define JDBC. What is JDBC? Describe it in your own words. How is it used?

- JDBC stands for Java Database Connectivity. It is a Java API (application programming interface) that uses drivers to connect to a database and allows us to connect to and execute queries on the database we use it to connect to.

5. List 3-5 interesting facts that you have learned about MySQL from your research?

Sources:

<https://dev.mysql.com/doc/mysql-tutorial-excerpt/8.0/en/retrieving-data.html>

https://www.w3schools.com/mysql/mysql_operators.asp

https://www.w3schools.com/mysql/mysql_wildcards.asp#:~:text=A%20wildcard%20character%20is%20used,used%20with%20the%20LIKE%20operator.

<https://www.javatpoint.com/java-jdbc>