SQL Recap

SQL RECAP

In Unit 2, we learned how to:

1.   Explain and connect to SQL databases.
2.   Define SQL grammar, syntax, and punctuation.
3.   Use SQL's **SELECT** statement with **WHERE** clauses.
4.   Use query commands, including **DISTINCT**, **COUNT**, **AND**, **OR**, and **CAST**.
5.   Apply SQL commenting, using **--** and **/* comment */**.
6.   Apply SQL conditional operators **=**, **!=**, **>**, **<**, **IN**, **NOT IN**, and **BETWEEN**.
7.   Use the SQL Boolean operator **OR** to include only the desired data.
8.   Filter data with the commands **GROUP BY** and **HAVING**.
9.   Use the aggregate functions **MIN**, **MAX**, **SUM**, **AVG**, and **COUNT**.
10. Apply calculations to fields using the order of operations (PEMDAS).
11. Create relationships between tables, including:
     a.   **INNER**, **RIGHT**, and **LEFT JOINS**.
     b.   **FULL OUTER JOINS**.
     c.   **EXCEPTION JOINS**.
     d.   **CROSS JOINS**.

UNIT 2 RECAP

In Unit 2, we also learned how to:

12.   Optimize our queries with **WHERE**, **LIMIT**, and **COALESCE**.
13.   Explain the differences between **NULL** and zero.
14.   Explore issues with math equations and **NULLs**.
15.   Use SQL **NULLs** to create Boolean functions and handle zeros.
16.   Use **CASE** statements to add "**IF, THEN, ELSE**" logic to SQL.
17.   Ask two or more questions in a single SQL query.*
18.   Nest queries within different parts of **SELECT** statements.*
19.   Perform multi-step aggregations or filtering within one query.*
20.   Apply string functions to manipulate how data are presented.
21.   Apply math functions to add value to data.
22.   Apply date logic to your SQL.

UNIT REVIEW

1. Our **Unit 2 Review Guide** is available here.

2. Take a few minutes to look it over.

3. Note any remaining questions you may have.

UNIT REVIEW

ACTIVITY

DIRECTIONS

Pair up and take 10 minutes to discuss:

1. What are some key takeaways from Unit 2?
2. What you can do to make these takeaways actionable or valuable in your team, organization, or workplace?

DELIVERABLE

Be prepared to share your answers with the class!