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SQL Interview Questions





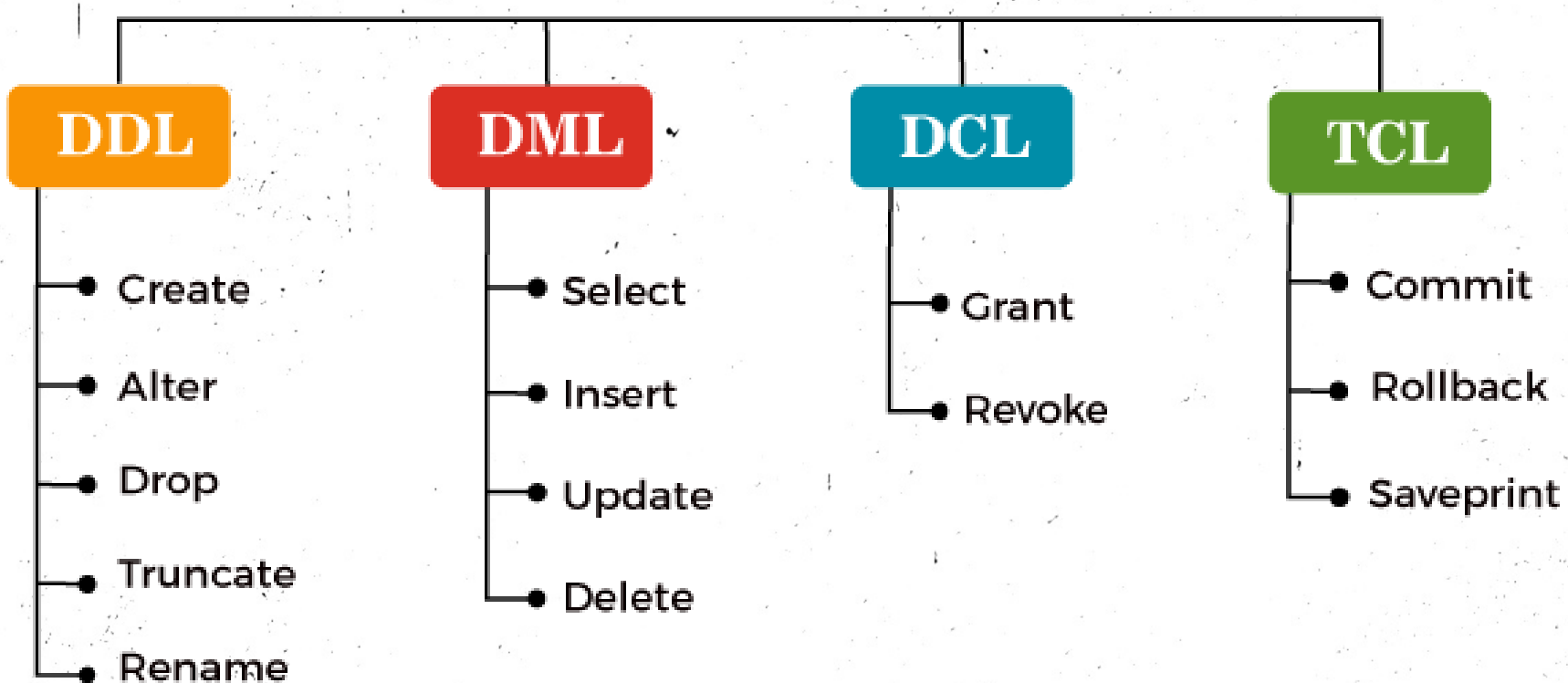
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Q.1) What are the different types of SQL commands?

SQL commands can be categorized into four main types:

Types of SQL Commands





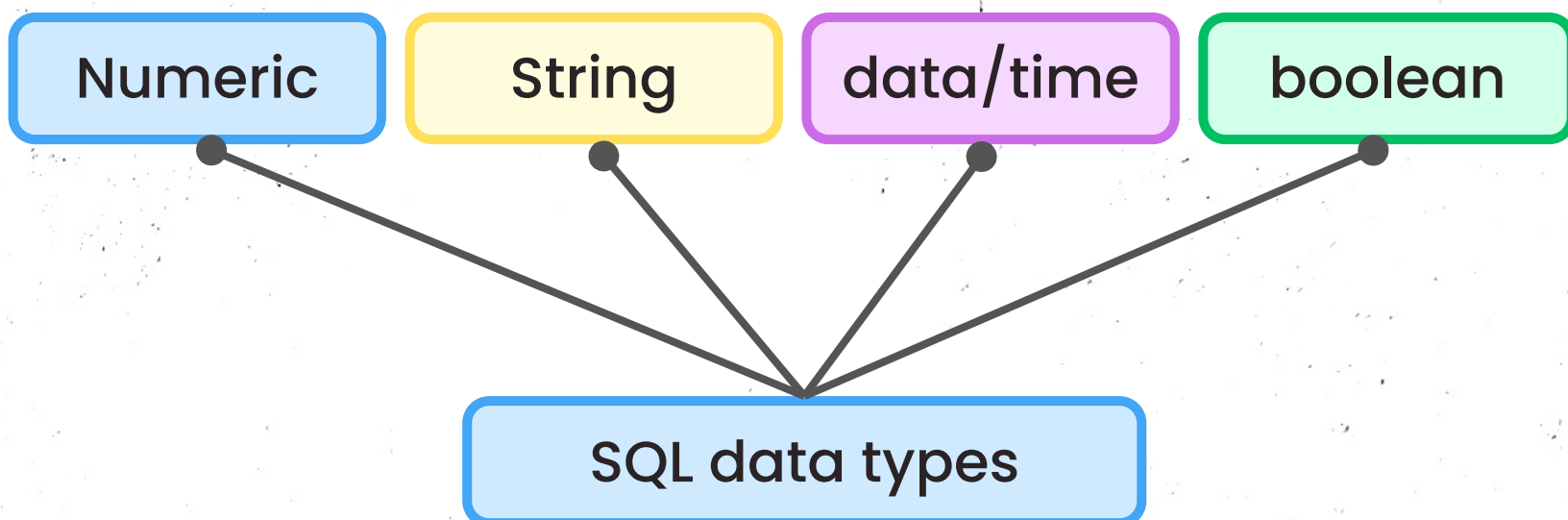
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Q.2) What is the purpose of the SQL SELECT statement?

The select statement **used to retrieve data** from one or more tables

Q.3) What are the primary SQL data types

SQL data types include **numeric, string, date/time, and boolean**. Each type is used to store different kinds of data





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Q.4) What are the different types of joins in SQL?

The different types of SQL joins are:

INNER JOIN: Returns matching rows from both tables

LEFT JOIN: Returns all rows from the left table and matching rows from the right

RIGHT JOIN: Returns all rows from the right rows from the left table and matching rows

FULL OUTER JOIN: Returns all rows from both tables

CROSS JOIN: Returns all possible combinations of rows from both tables

SELF JOIN: Joins a table with itself, often for hierarchical



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Q.5) What is difference between a subquery and a join?

Subquery: Nested query used within another query, often in WHERE or HAVING clauses.

Join: Combines rows from two or more tables based on a specified condition, typically in the FROM clause.

Q.6) Explain the ACID properties in the context of database transactions

ACID stands for **Atomicity, Consistency, Isolation and Durability**. These properties ensure that database transactions reliable and maintain data integrity



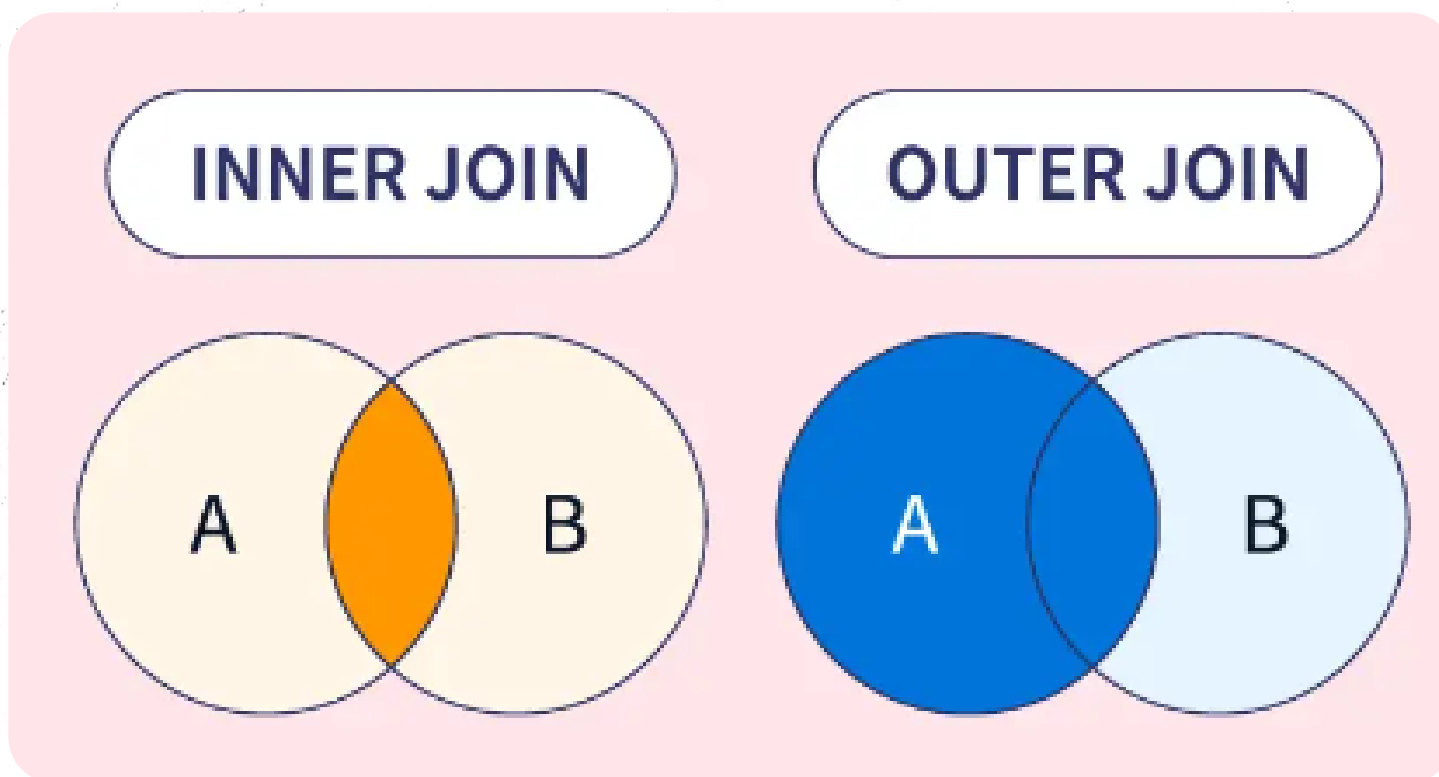
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Q.7) Explain the difference between INNER JOIN and OUTER JOIN

INNER JOIN returns only the rows that have matching values in both tables,

while **OUTER JOIN** returns all rows from both tables and fills in missing values with NULL.





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Q.8) What is difference between GROUP BY and HAVING clauses in SQL?

GROUP BY is used to group rows that have the same values into summary rows, while **HAVING** is used to filter grouped rows based on a specified condition.

Q.9) What is the difference between UNION and UNION ALL in SQL?

UNION: Removes duplicate rows from the result.

UNION ALL: Includes all rows, including duplicates, in the result.