AeroAspire -SDE Intern Training
John Nikhil G

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Learning Topics

- Basics of SQL: tables, relations, and designing schemas

Task:

- Make a schema for a **tasks** table with these fields:

    o id

    o title

    o description

    o status

    o due_date

- Then create the table in SQL.

Questions

1. What is normalized form? Why avoid data repetition?
Normalized form means organizing your data properly so that there's no repetition.
There are levels like 1NF, 2NF, 3NF.
We avoid repetition because storing the same data in many places is wasteful, makes the database bigger, and can cause mistakes in data.

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2. How do you choose data types (VARCHAR, DATE, INT, etc.)?
It depends on what type of data you want to store:

- Text → VARCHAR

- Numbers → INT or FLOAT

- Dates → DATE or DATETIME
  Use the type that fits the kind of value you will save.

3. What changes will you make if tasks need tags or user assignment?

- I would let users pick tasks instead of assigning them in the table.

- I'd just add a "status" like "tagged" or "untagged" to keep track.

- This way, tasks don't need extra tables, it stays simple, and we can still filter by user or tag.