

AeroAspire -SDE Intern Training

NIRANJAN C N

Week4-Day1-13/10/2025

Learning Topics

- SQL basics: tables, relations, schema design

Task:

- Design schema for tasks: fields such as
 - Id
 - title
 - description
 - status
 - due date
- create tables

Questions:

1. What is the normalized form? Why avoid data redundancy?
 - a. Normalized form is a way to organize data and tables and avoid duplication
 - b. It has normal forms like 1NF,2NF,3NF
 - c. We need to avoid redundancy to reduce storing of data in multiple places
 - d. It helps decreasing the database size and makes the data consistent
2. How would you decide types (VARCHAR, DATE, INT etc.)?
 - a. We can decide data type based on the value we need to store
 - i. Text-VARCHAR
 - ii. Numbers-INT,FLOAT
 - iii. Dates-DATE or DATETIME
3. Describe schema changes you might make if tasks need tagging / user assignment.
 - a. Create a separate tag for tasks specific or a table for that
 - b. Create a user and a table for that
 - c. Adjust indexes for these relationships
 - d. Add foreign key in tasks for user and tasks related to each other