

Database and Datamodeling

Day 1: Assignment 3

Normalization is important in a database because it helps organize data in a systematic way that reduces data redundancy and avoids storing the same information multiple times. By doing so, it improves data consistency, ensuring that the same data has the same value everywhere in the database.

Order_ID	Customer_Name	Product
101	Rahul	Laptop
101	Rahul	Mouse

Problems if database is not normalized are:-

- 1. Data redundancy:** Same data is stored at multiple locations.
- 2. Update anomaly:** Updating data in one place and not in another which could cause data inconsistency.
- 3. Deletion anomaly:** Deleting data may cause deletion of important information.
- 4. Insertion anomaly:** data cannot be inserted into a table without adding unnecessary or unrelated data.