

Database and Datamodeling

Day 1: Assignment 3

Need for Normalization

The very USP of SQL lies in its standardized structure; and normalization is the key process that makes this system robust and scalable. It reduces redundancy present in the tables which helps save storage, it ensures data integrity; all these in turn help simplify the maintenance of the database system.

Problems if database is not normalized

There are a lot of anomalies that can occur if we don't perform normalization.

- Insertion Anomaly
- Updation Anomaly
- Deletion Anomaly
- Data Redundancy
- More time for database maintenance and complexity

1NF Normalized

Order_ID	Customer_name	Products
101	Rahul	Laptop
101	Rahul	Mouse