Data redundancy :- when data is being stored multiple times such situation is called data redundancy.

Data anomalies:- Data anomalies are problems that occur in poorly planned, unnormalized database where all data in one table only.

🡪Not a good practice

🡪very poor data system design

Types of data anomalies:-

🡪Insert anomalies

🡪Delete anomalies

🡪Update anomalies



Looking at the unnormalized table above :-

We can see that student and college details are being gathered in same table.

So For deletion anomalies, if user just want to delete student detail than the detail of college related is also deleted, this is known as deletion anomalies.

An Insert Anomaly occurs when attributes cannot be inserted into the database without the presence of other attributes.

In insert if I have only info about student and not about college than I cant insert these record in the db table

When duplicated data is updated at one instance and not across all instances where it was duplicated. That’s an update anomaly.

In update anomaly since data is row wise ,so its time consuming for updating each row record .