Dirty read problem: Without transaction isolation it is possible you read uncommitted data

when multiple people are making transactions, and someone uses rollback.

Non-repeatable read – A transaction can read a value, meanwhile another transaction modifies this value so that the next time the first transaction reads it again it has changed.

Phantom read – A transaction reads a table meanwhile another transaction commits a new row to that table so that the next time the first transaction reads it again it has new information added.