**Concurrency problems:**

**The problem will occur only if the isolation principle is not followed**

* **Dirty reads: if transaction 1 allows transaction 2 to read uncommitted data and after that transaction 1 rollbacks.**
* **Lost updates: transaction 1 and transaction 2 both select and update the same data but transaction 2 finishes its work before transaction 1 than lost updates can happen.**
* **Non repeatable reads: if transaction 1 read the same data twice but transaction 2 updates the same data then non repeatable reads will occur.**
* **Phantom reads: if transaction 1 reads the same data twice but transaction 2 inserts a new record in between than phantom reads will occur.**

**Isolation levels:**

* **Read uncommitted**
* **Read committed (default)**
* **Repeatable read**
* **Snapshot**
* **Serializable**