**Proof by Two-Session Demonstration**

**Step 1: Session A (Python or MySQL console)**

Start a transaction and insert a record, but **don’t commit**.

START TRANSACTION;

INSERT INTO dept (dname, loc) VALUES ('training', 'Delhi');

Now check the data **in the same session**:

SELECT \* FROM dept;

You will see the new record.

**Step 2: Session B (Another MySQL window)**

Run the same query in a *different session*:

SELECT \* FROM dept;

You will **not** see the newly inserted row yet.

That’s because Session A’s changes are **uncommitted**, still in memory.

**Step 3: Back to Session A**

Now commit:

COMMIT;

**Step 4: Session B again**

Run:

SELECT \* FROM dept;

Now you will see the 'training', 'Delhi' record appear.

**What This Proves**

* Before commit → The change exists **only in Session A’s memory area (transaction buffer)**.
* Other sessions can’t see it → it’s not yet applied to the actual table data files.
* After commit → MySQL writes it to disk, and all sessions can see it.