Experiment 10

To demonstrate the use of **COMMIT**, **SAVEPOINT**, and **ROLLBACK** commands on a sample table in Oracle 12c.

1. Table Creation

- Create a table named bank with the following structure:
 - bankname → VARCHAR2 (50)
 - headoffice → VARCHAR2 (50)
 - branch → VARCHAR2 (50)
 - branchcode → VARCHAR2 (10) (Primary Key)

2. Insert Records (before Savepoint)

o Insert the following rows into the table:

bankname	headoffice	branch	branchcode
SBI	Mumbai	Kochi	B001
SBI	Mumbai	Chennai	B002
HDFC	Mumbai	Bengaluru	B003

3. Insert More Records (after Savepoint)

- Insert the row:
- o ICICI, Mumbai, Delhi, B004
- Create another savepoint named sp2.

4. Perform Updates and Deletes

- o Update the branch of bankcode B004 from Delhi to Hyderabad.
- o Delete the record with branchcode B003.
- Display all rows with SELECT * FROM bank;

5. Rollback to Savepoints

- Rollback to sp2 and display the table.
 - Observe whether B003 and B004 changes are restored.
- Rollback further to sp1 and display the table.
 - Observe what happens to the B004 record.

6. Commit the Transaction

- Commit the changes after rolling back to sp1.
- o Try to perform a ROLLBACK again.
- o Check whether the committed state remains unchanged.

Expected Outputs to Verify

- After step 4: B003 deleted, B004 updated to Hyderabad.
- After rollback to sp2: 4 rows, B004 back to Delhi.
- After rollback to sp1: only 3 rows remain (no B004).
- After commit: rollback has no effect.