PRACTICAL-9

AIM : To study Transaction control commands.

TRANSACTION :

ID	NAME
1	Abhi
2	Adam
4	Alex

TRANSACTION :

CREATE TABLE TRANSACTION(ID NUMBER(2),NAME VARCHAR2(8));
INSERT INTO TRANSACTION VALUES(1,'Abhi');
INSERT INTO TRANSACTION VALUES(2,'Adam');
INSERT INTO TRANSACTION VALUES(4,'Alex');

Perform the following queries:

1.Insert new record as the id as 5 and name as Rahul in the table. and after that commit that transaction.

```
SQL> INSERT INTO TRANSACTION VALUES(5,'Rahul');

1 row created.

SQL> SELECT * FROM TRANSACTION;

        ID NAME
---------- ----------
         1 Abhi
         2 Adam
         4 Alex
         5 Rahul

SQL> COMMIT;

Commit complete.
```

2. Update the id as 5 and name as Abhijit in the given table and create a savepoint A after this transaction.

```
SQL> UPDATE TRANSACTION SET NAME='Abhijit' WHERE ID=5;

1 row updated.

SQL> SELECT * FROM TRANSACTION;

        ID NAME
---------- ----------
         1 Abhi
         2 Adam
         4 Alex
         5 Abhijit

SQL> SAVEPOINT A;

Savepoint created.
```

3. Update the id as 6 and name as Chris in the given table and create a savepoint B after this transaction.

```
SQL> INSERT INTO TRANSACTION VALUES(6,'Chris');

1 row created.

SQL> SELECT * FROM TRANSACTION;

        ID NAME
---------- ----------
         1 Abhi
         2 Adam
         4 Alex
         5 Abhijit
         6 Chris

SQL> SAVEPOINT B;

Savepoint created.
```

4. Update the id as 7 and name as Bravo in the given table and create a savepoint C after this transaction.

```
SQL> INSERT INTO TRANSACTION VALUES(7,'Bravo');

1 row created.

SQL> SELECT * FROM TRANSACTION;

        ID NAME
---------- ----------
         1 Abhi
         2 Adam
         4 Alex
         5 Abhijit
         6 Chris
         7 Bravo

6 rows selected.

SQL> SAVEPOINT C;

Savepoint created.
```

5. Display all the details after transactions given in queries 1 to 4.

```
SQL> SELECT * FROM TRANSACTION;
        ID NAME
---------- ----------
         1 Abhi
         2 Adam
         4 Alex
         5 Abhijit
         6 Chris
         7 Bravo

6 rows selected.
```

6. Rollback the state of data to the savepoint A and print the data of table.

```
SQL> ROLLBACK TO A;

Rollback complete.

SQL> SELECT * FROM TRANSACTION;
        ID NAME
---------- ----------
         1 Abhi
         2 Adam
         4 Alex
         5 Abhijit
```