

## **TP 02**

# **How to use commit , savepoint and Rollback**

**Supervised by:**

**Phd Ouared abdelkader**

**Presented by:**

**Lebani Ali Zakaria**

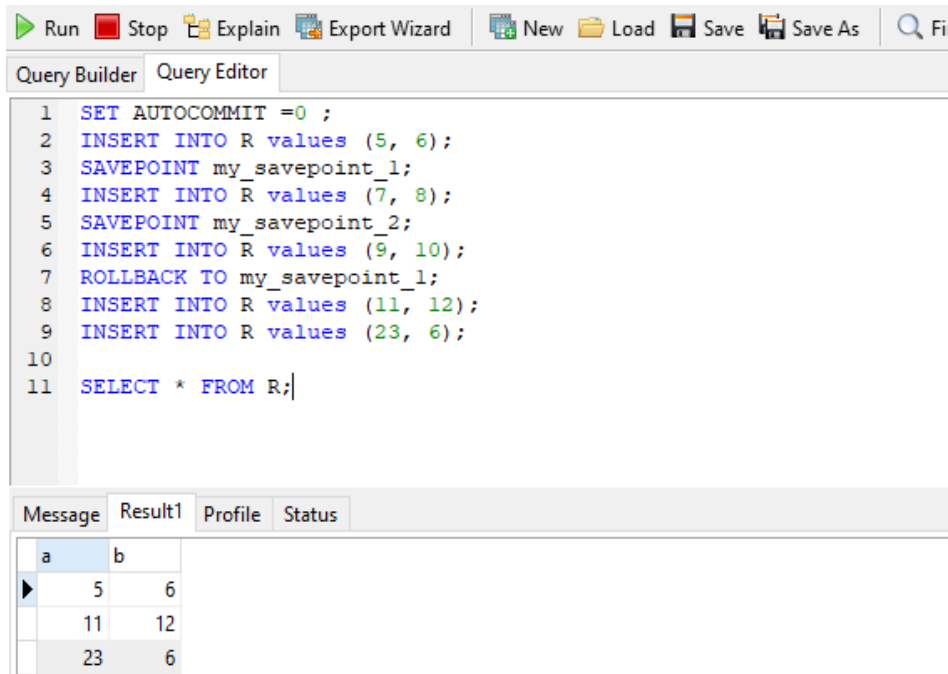
**Rahlaoui Lahcen**

**Laoumir Mustapha Abdelkader**

## Exercice 01 :

The expected results in this query are:

### - Part one



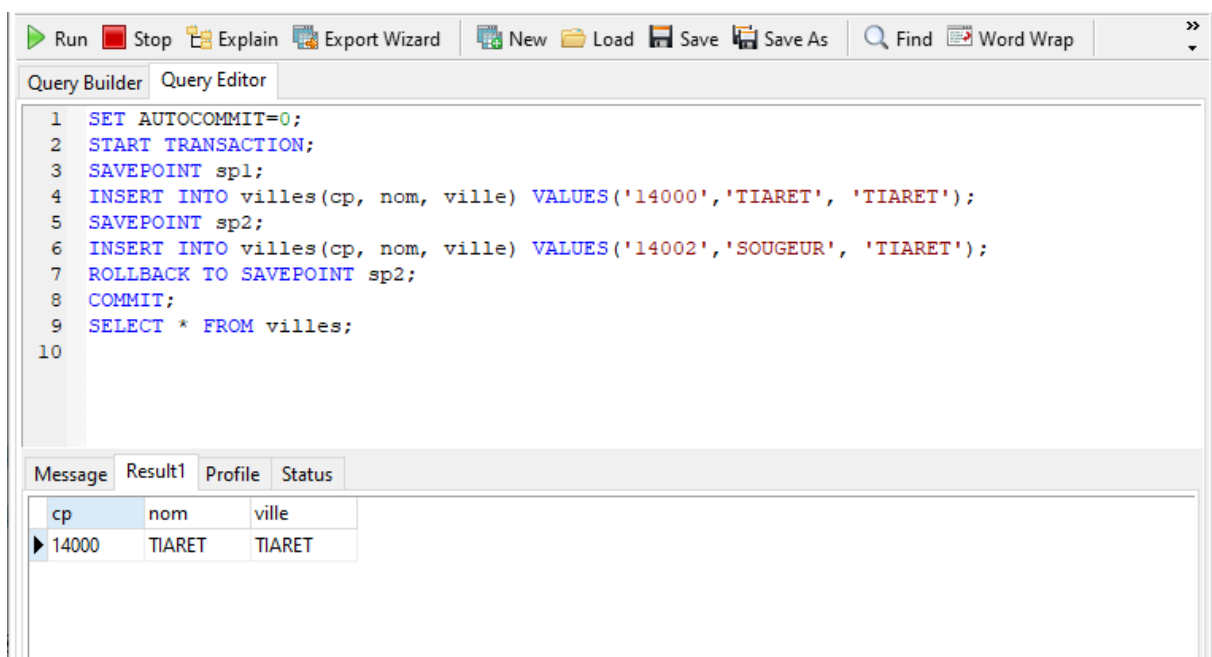
The screenshot shows a SQL query editor with the following code:

```
1 SET AUTOCOMMIT =0 ;
2 INSERT INTO R values (5, 6);
3 SAVEPOINT my_savepoint_1;
4 INSERT INTO R values (7, 8);
5 SAVEPOINT my_savepoint_2;
6 INSERT INTO R values (9, 10);
7 ROLLBACK TO my_savepoint_1;
8 INSERT INTO R values (11, 12);
9 INSERT INTO R values (23, 6);
10
11 SELECT * FROM R;
```

Below the code, the results are displayed in a table with columns 'a' and 'b'.

a	b
5	6
11	12
23	6

### - Part two



The screenshot shows a SQL query editor with the following code:

```
1 SET AUTOCOMMIT=0;
2 START TRANSACTION;
3 SAVEPOINT sp1;
4 INSERT INTO villes(cp, nom, ville) VALUES('14000','TIARET', 'TIARET');
5 SAVEPOINT sp2;
6 INSERT INTO villes(cp, nom, ville) VALUES('14002','SOUGEUR', 'TIARET');
7 ROLLBACK TO SAVEPOINT sp2;
8 COMMIT;
9 SELECT * FROM villes;
10
```

Below the code, the results are displayed in a table with columns 'cp', 'nom', and 'ville'.

cp	nom	ville
14000	TIARET	TIARET

## Conclusion :

- ' Set autocommit = 0 ' For disabling the autocommit mode and start the transaction for safe work .
- Specify the savepoint ' my\_savepoint\_1 and my\_savepoint\_2 ' in the first image and ' sp1 and sp2 ' in the second image , this savepoints for saving the work in a specific moment and come back to this point when something gets wrong happens.
- We have used the 'INSERT INTO' to test those savepoints.
- Then when we write the ' ROLLBACK ' keyword for go to a specific savepoint for backup the old data .