TP 02

How to use commit , savepoint and Rollback

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The process is a set of modifications that take place in the database according to a logical sequence, and it results in some changes in the rule such as deleting a record, modifying data or creating a new record, and these changes become a permanent part of the database if it is completely implemented without errors, but in the event that any Error, we have to go back to the previous version .
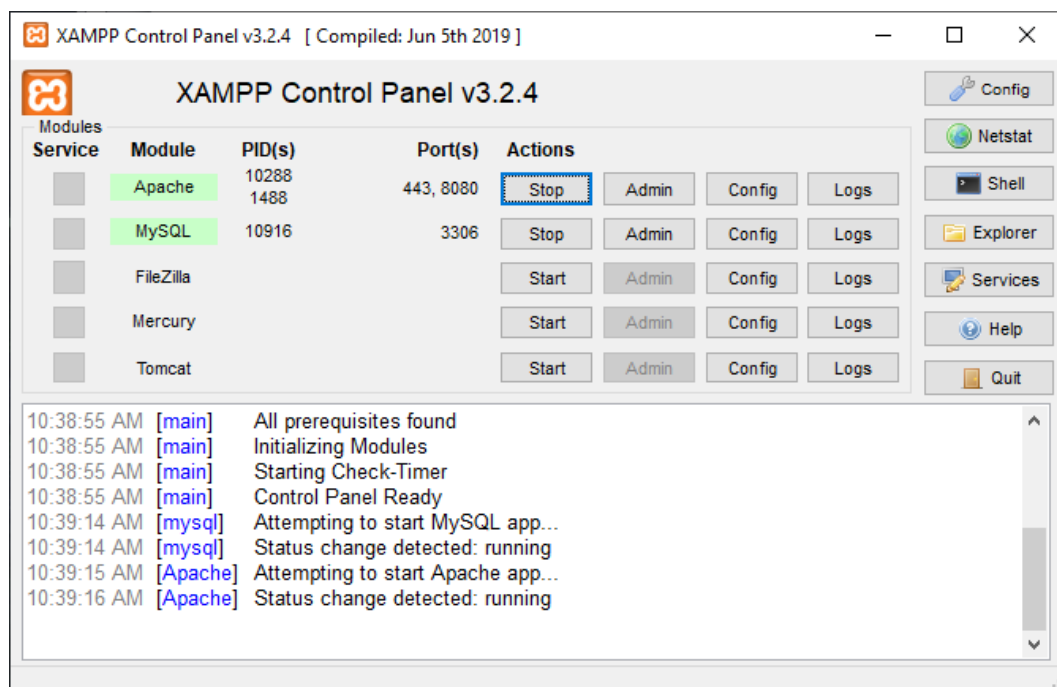
There are three process control commands:

COMMIT : Save changes .

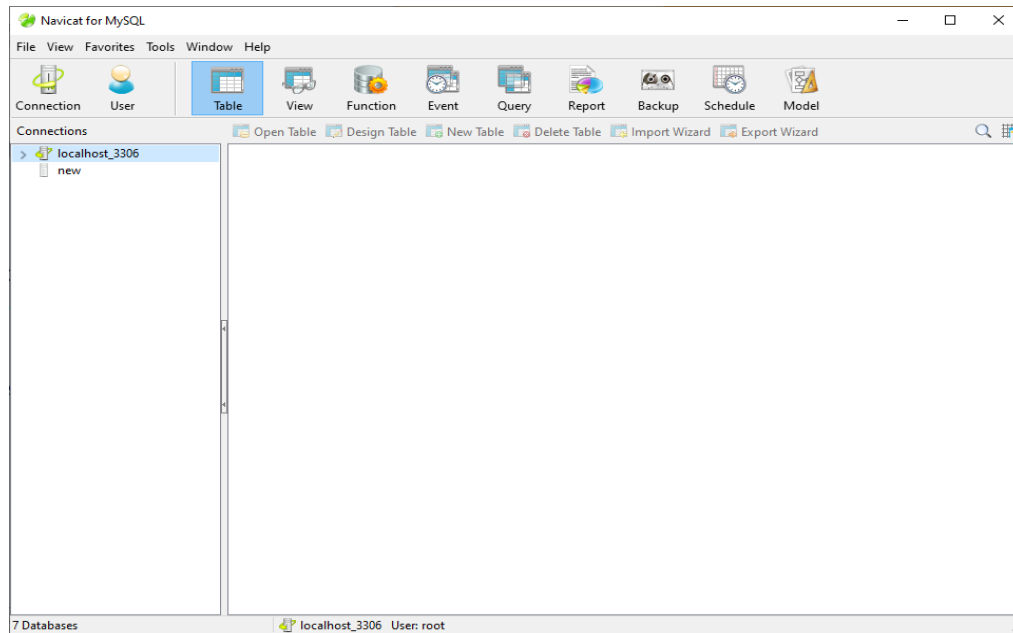ROLLBACK : To return and restore the previous data in its old state .

SAVEPOINT : Make backup copies on groups in order to restore data .
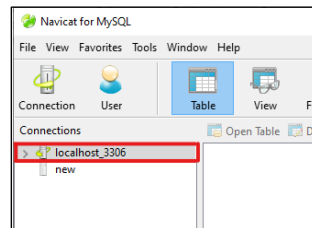
We will see how to use those commands in mysql

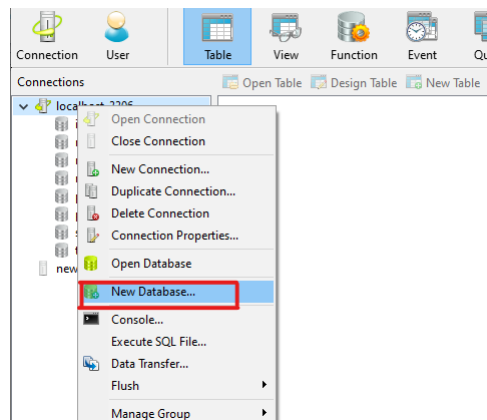- First thing first run XAMPP and then start the mysql
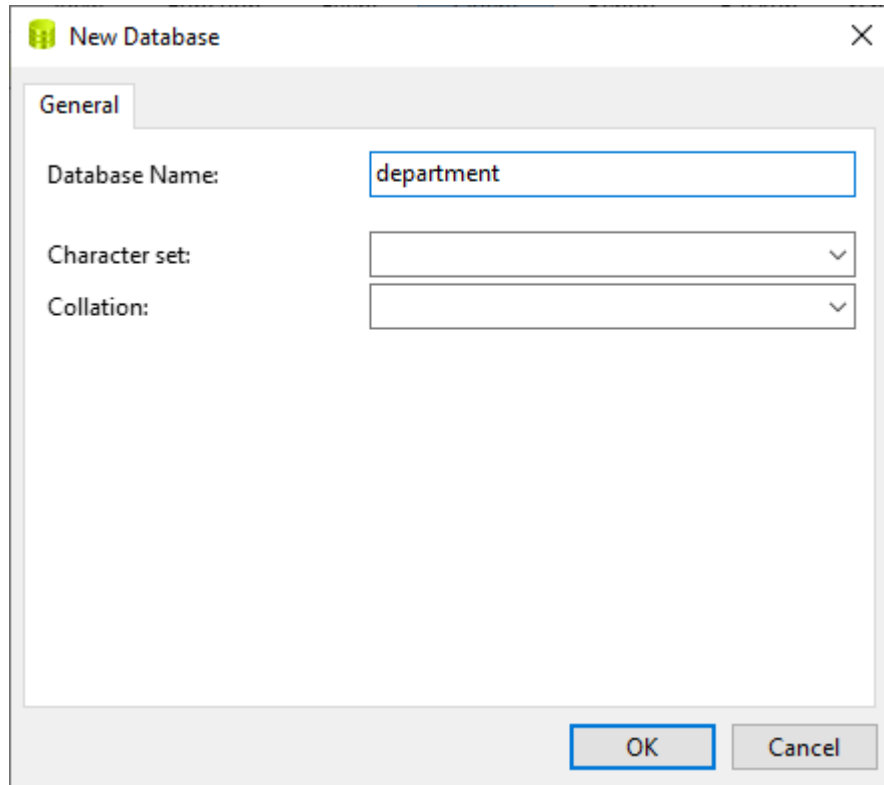
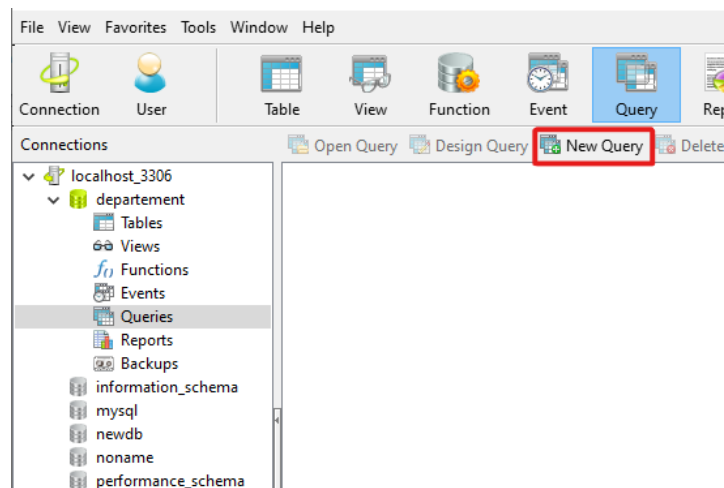- Open navicat for Mysql

- Double click on « Localhost_3306 »

- Then right-click on "localhost_3306" and select the option new Database…
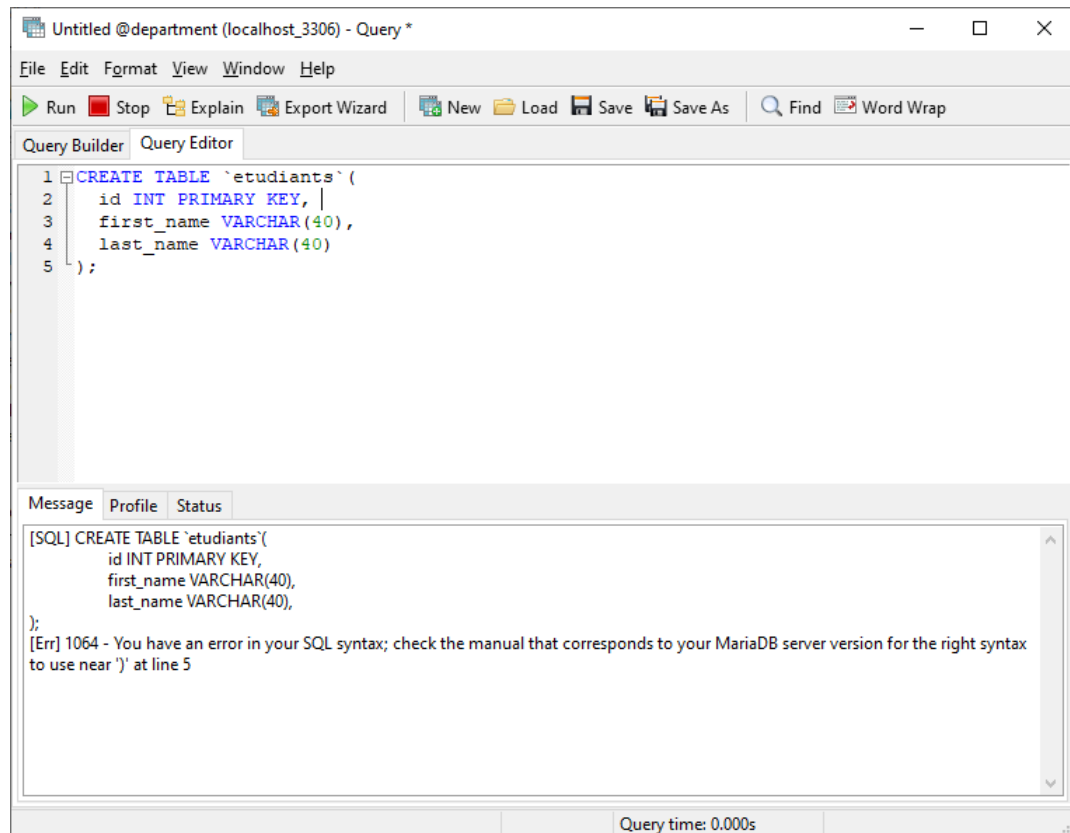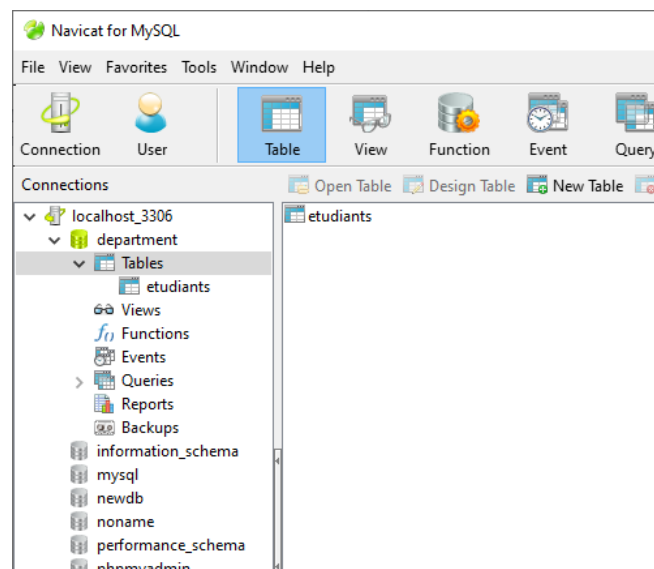
- Pick a name for this database

- The select the database "Department" and select query and click on new query

- Create a table using the sql language , and run the code

- The table is created successfully

- Now we will use the control commands

In the last picture we have seen how to use " commit and savepoint" , now we will see how can we use the savepoint with rollback .

- Lets rollback to sp5 , the savepoint we have created .

- And now try to go back to sp4 .

myquery @department (localhost_3306) - Query *

new @newdb (localhost_... ✕   newtable @newdb

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Query Builder Query Editor

```
1   ROLLBACK to sp4;
2   SELECT * FROM etudiants;
```

Message Result1 Profile Status

id	first_name	last_name
1	ali	chelfi
2	khaled	bouzid
3	ayoub	bouseta
4	ahmed	nasri

- Then try to rollback to sp2 .

myquery @department (localhost_3306) - Query *

new @newdb (localhost_... ✕   newtable @newdb (loc

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Query Builder Query Editor

```
1   ROLLBACK to sp2;
2   SELECT * FROM etudiants;
```

Message Result1 Profile Status

id	first_name	last_name
1	ali	chelfi
2	khaled	bouzid

- Then try to rollback to sp3 .
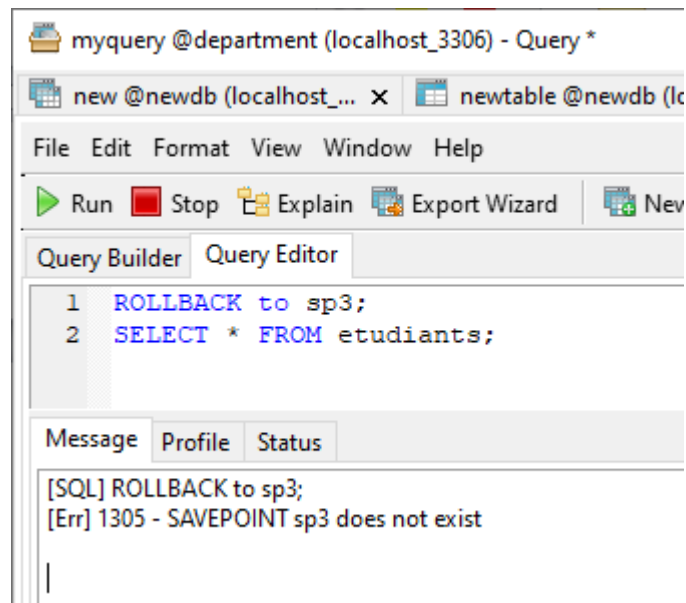
When we tried to switch to sp3 after we moved to sp2, the result was "savepoint sp3 does not exist" because it was deleted when we wrote "ROLLBACK to sp2".

- When we write "ROLLBACK;", the table will be empty because we get back to the start point .