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:

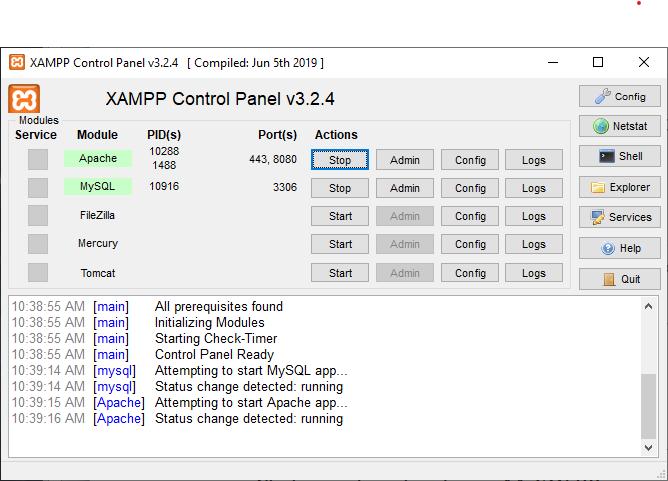
COMMIT : Save changes .

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

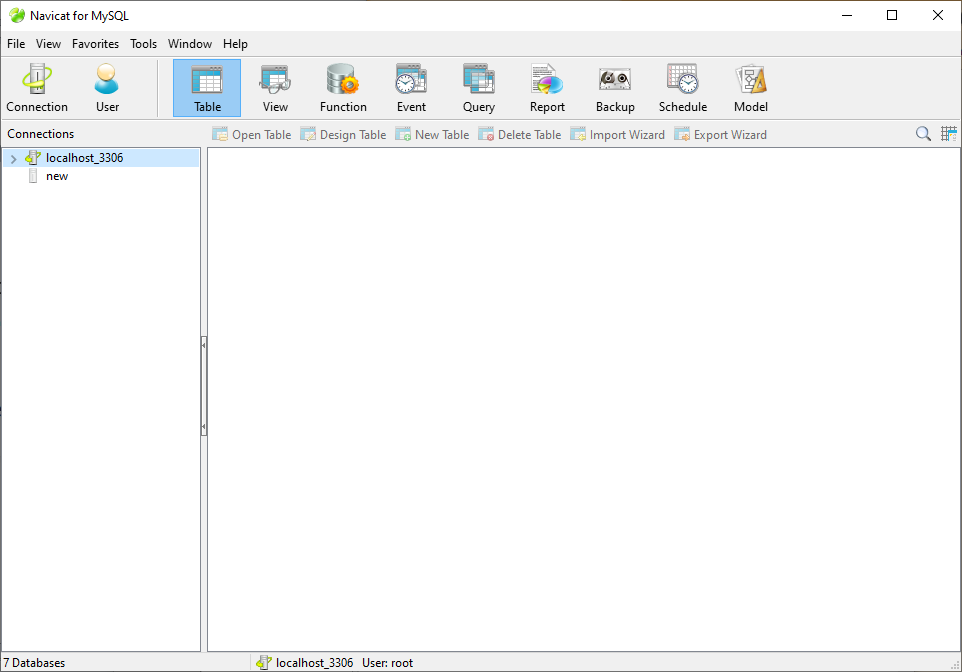
SAVEPOINT : Make backup copies on groups in order to restore data .

We will see how to use those commands in mysql

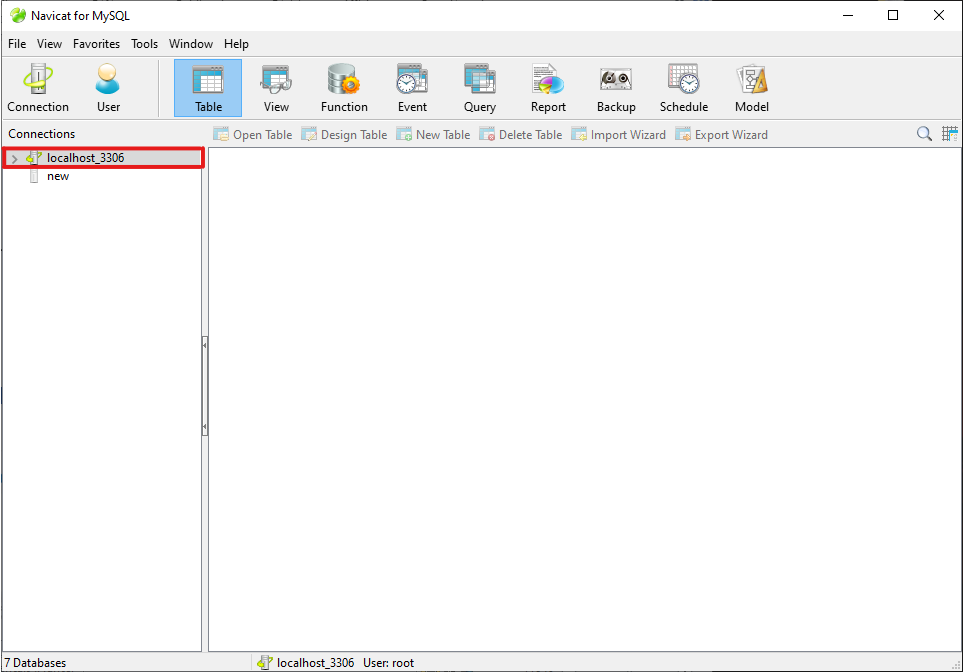
* First thing first run XAMPP and then start the mysql



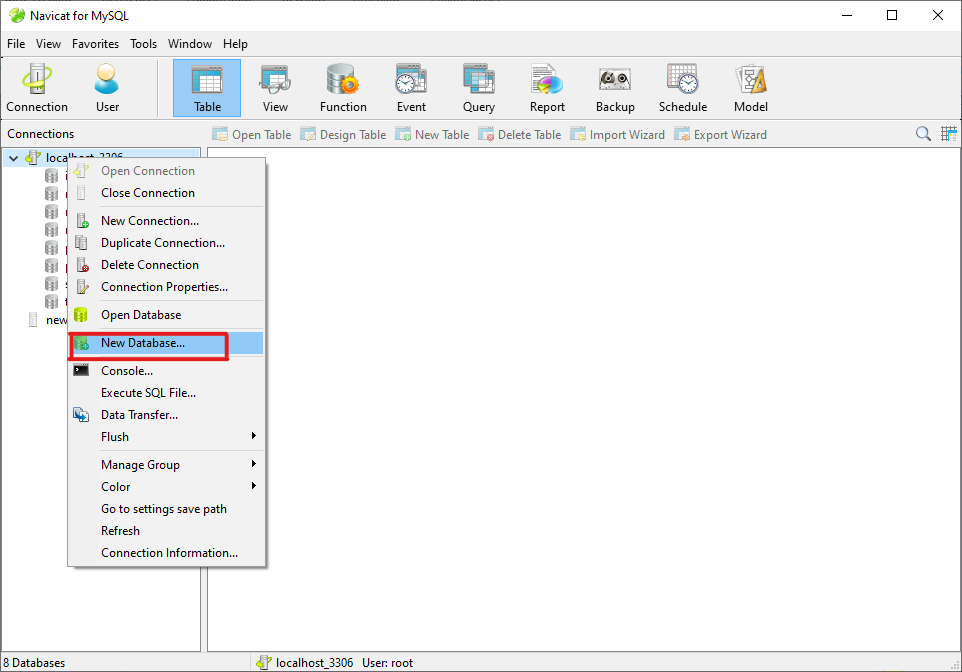
* Open navicat for Mysql



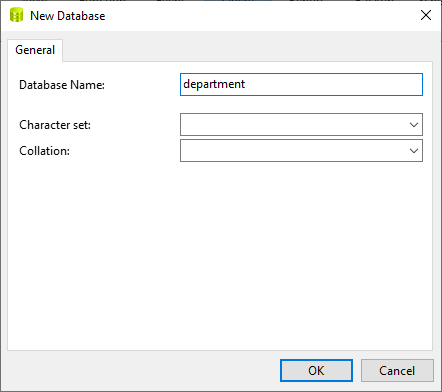
* Double click on « Localhost\_3306 »



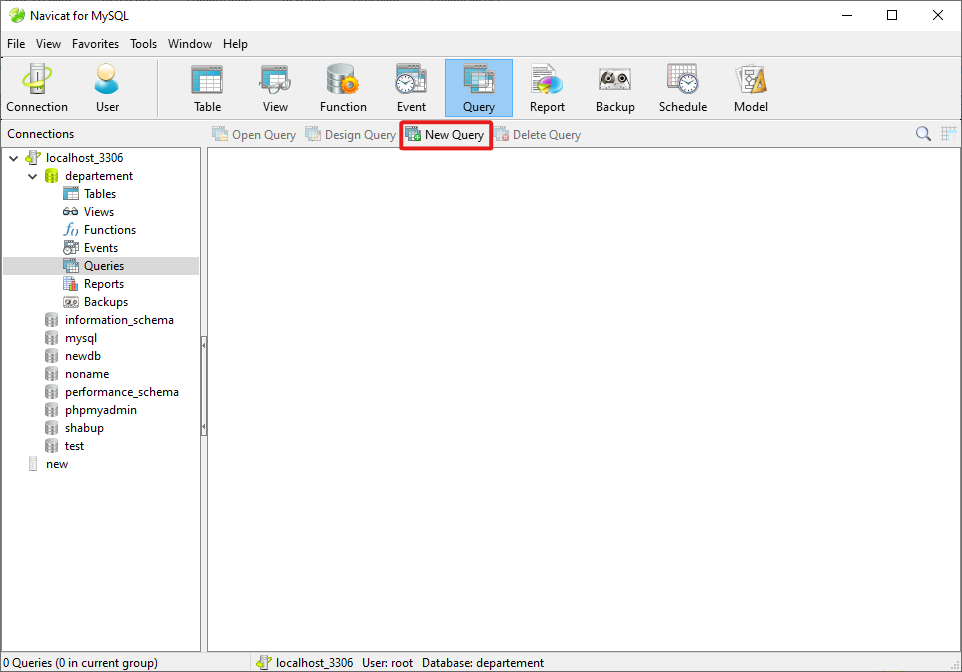
* Then right-click on "localhost\_3306" and select the option new Database…



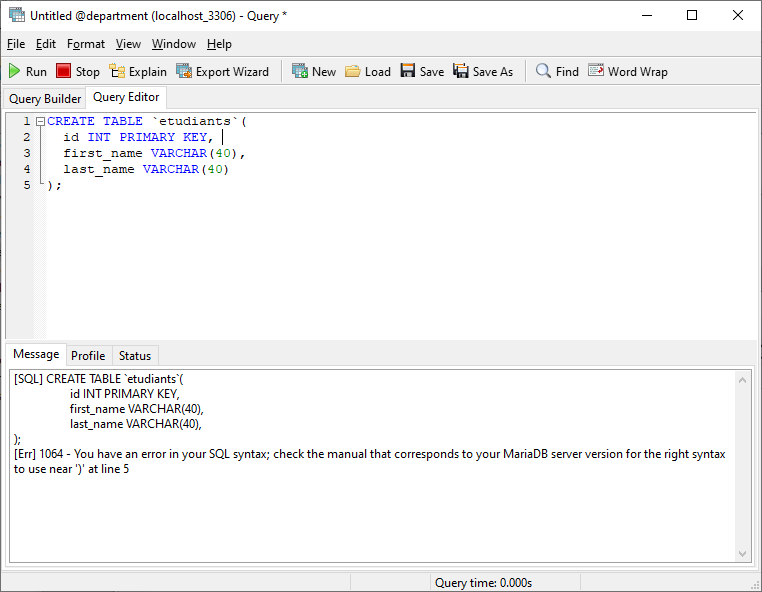
* Pick a name for this database



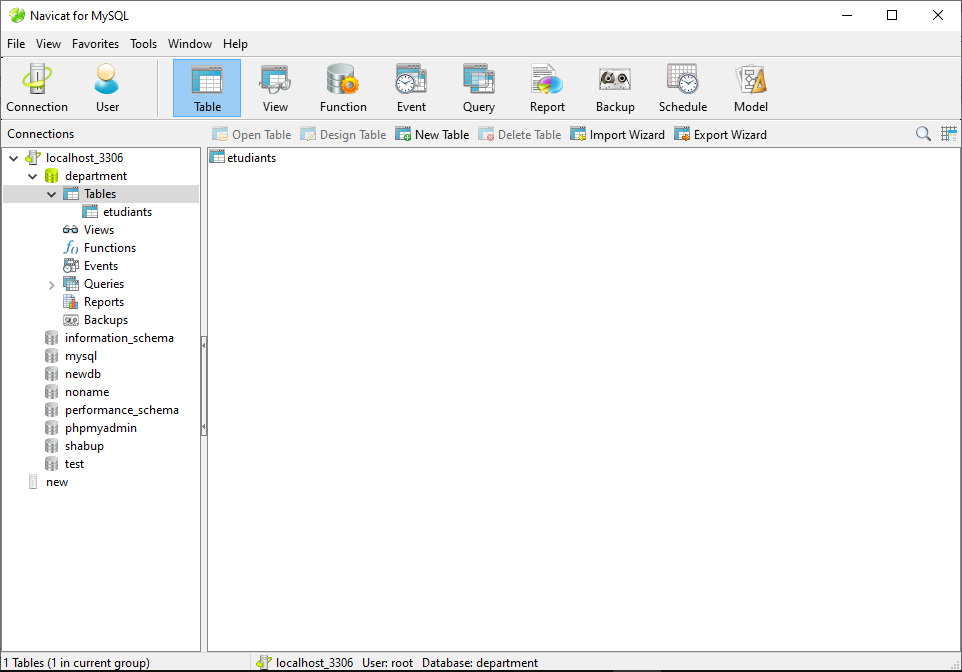
* The select the database “Department” and select query and click on new query



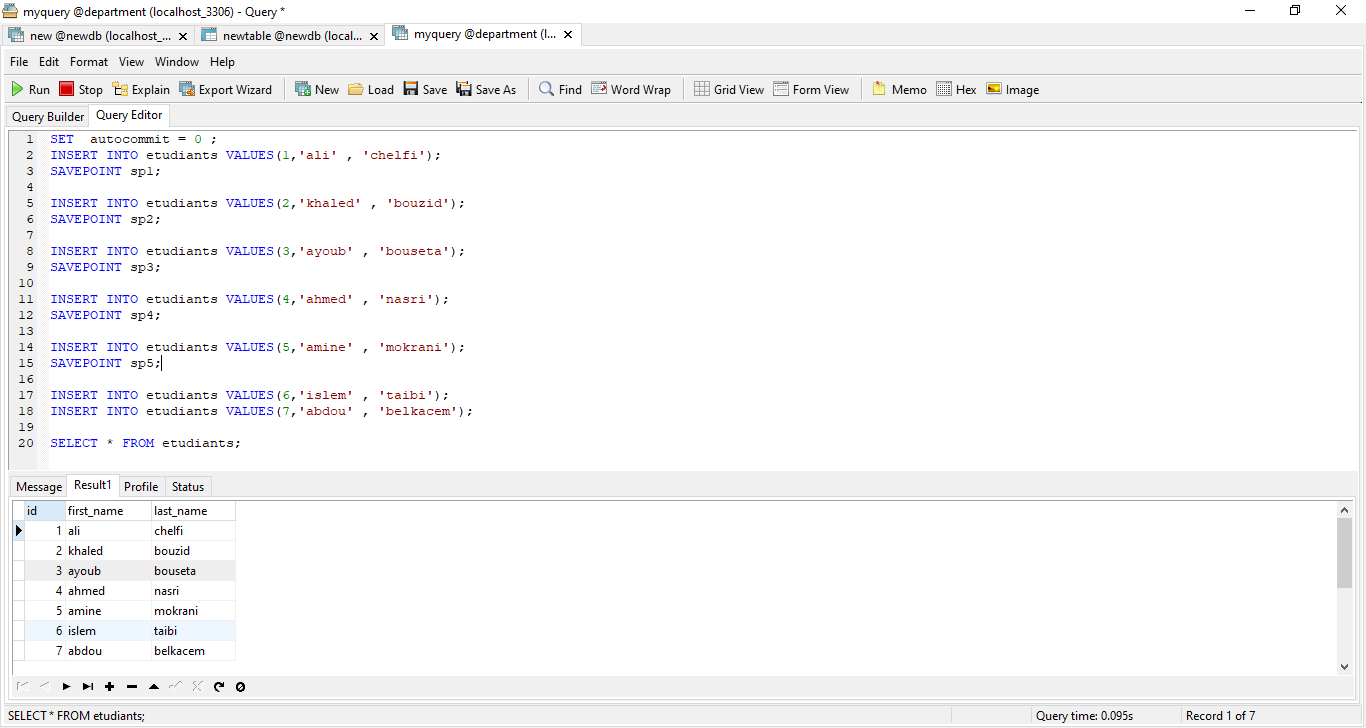
* Create a table using the sql language , and run the code



* The table is created successfully

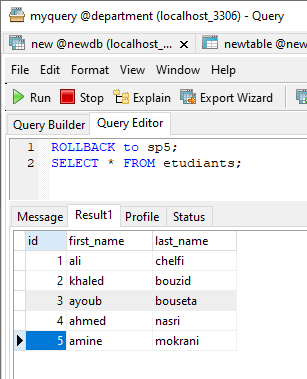


* Now we will use the control commands

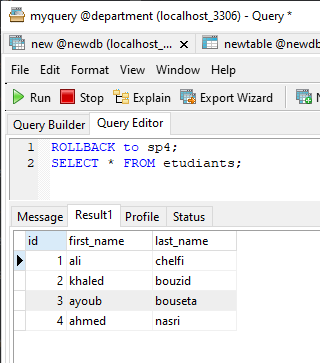


In the last picture we have seen how to use “ commit and savepoint” , now we will see how can we use the savepoint with rollback .

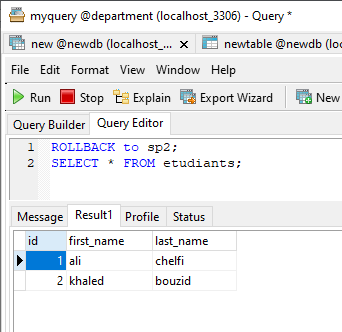
* Lets rollback to sp5 , the savepoint we have created .



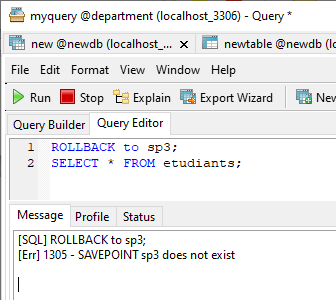
* And now try to go back to sp4 .



* Then try to rollback to sp2 .



* 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 .

