**Name:-Tanuja Pravin Patil**

**Roll No:-151**

**Assignment Name:-Demonstrate database connectivity using MySql**

**Assignment No:-**

**Create connection with mysql Workbench**import mysql.connector  
conn = mysql.connector.Connect(host="localhost",username="root",password="Tanuja@29",database="test\_pycharm")

my\_cur = conn.cursor()  
conn.commit()  
conn.close()  
print("Connected")

**Output:-**

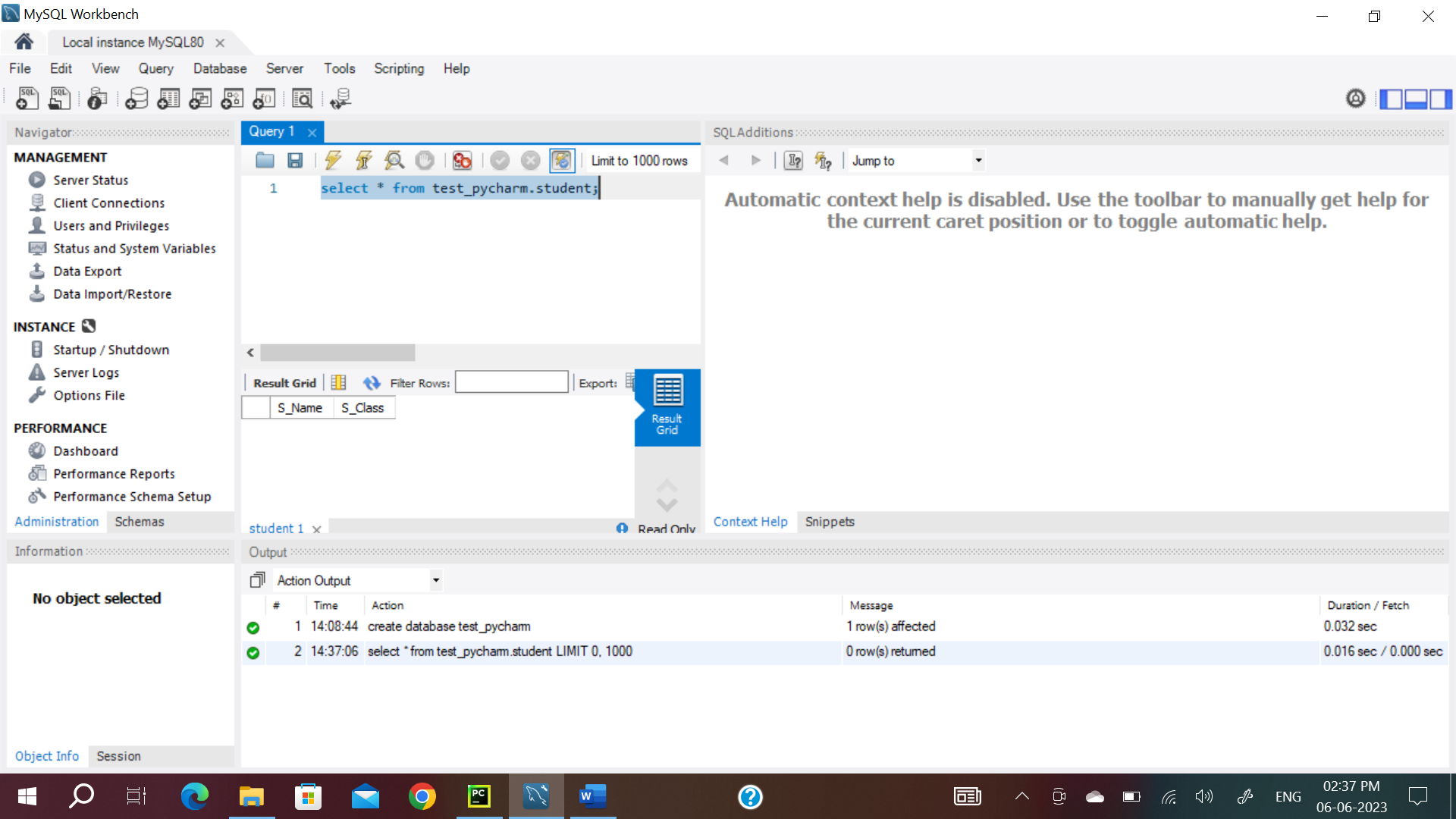
Connected

**Create table in pycharm with mysql:-**

import mysql.connector  
conn = mysql.connector.Connect(host="localhost",username="root",password="Tanuja@29", database="test\_pycharm")  
my\_cur = conn.cursor()  
  
my\_cur.execute("CREATE TABLE Student (S\_Name VARCHAR(255), S\_Class VARCHAR(255))")  
  
conn.commit()  
conn.close()  
print("Connected")

**Output:-**

Connected

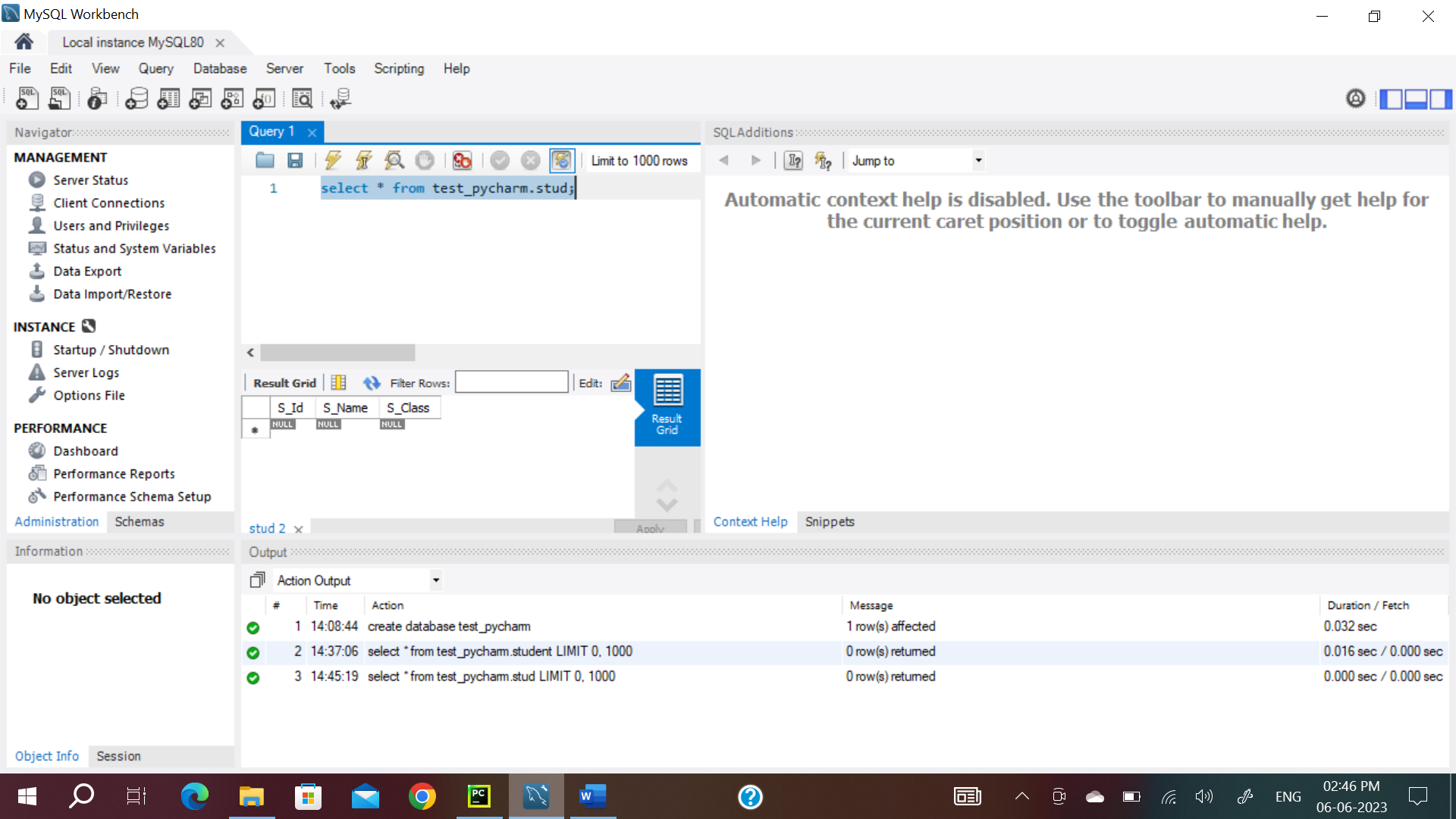


**Show tables in current database:-**  
  
import mysql.connector  
  
conn = mysql.connector.Connect(host="localhost",username="root",password="Tanuja@29", database="test\_pycharm")  
my\_cur = conn.cursor()  
  
my\_cur.execute("SHOW TABLES")  
  
for x in my\_cur:  
 print(x)  
  
conn.close()

**Output:-**

('student',)  
  
**Apply Primary Key:-**import mysql.connector  
  
conn = mysql.connector.Connect(host="localhost",username="root",password="Tanuja@29", database="test\_pycharm")  
my\_cur = conn.cursor()  
  
my\_cur.execute("CREATE TABLE Stud(S\_Id int AUTO\_INCREMENT primary key,S\_Name VARCHAR(255),S\_Class VARCHAR(255))")  
  
conn.close()

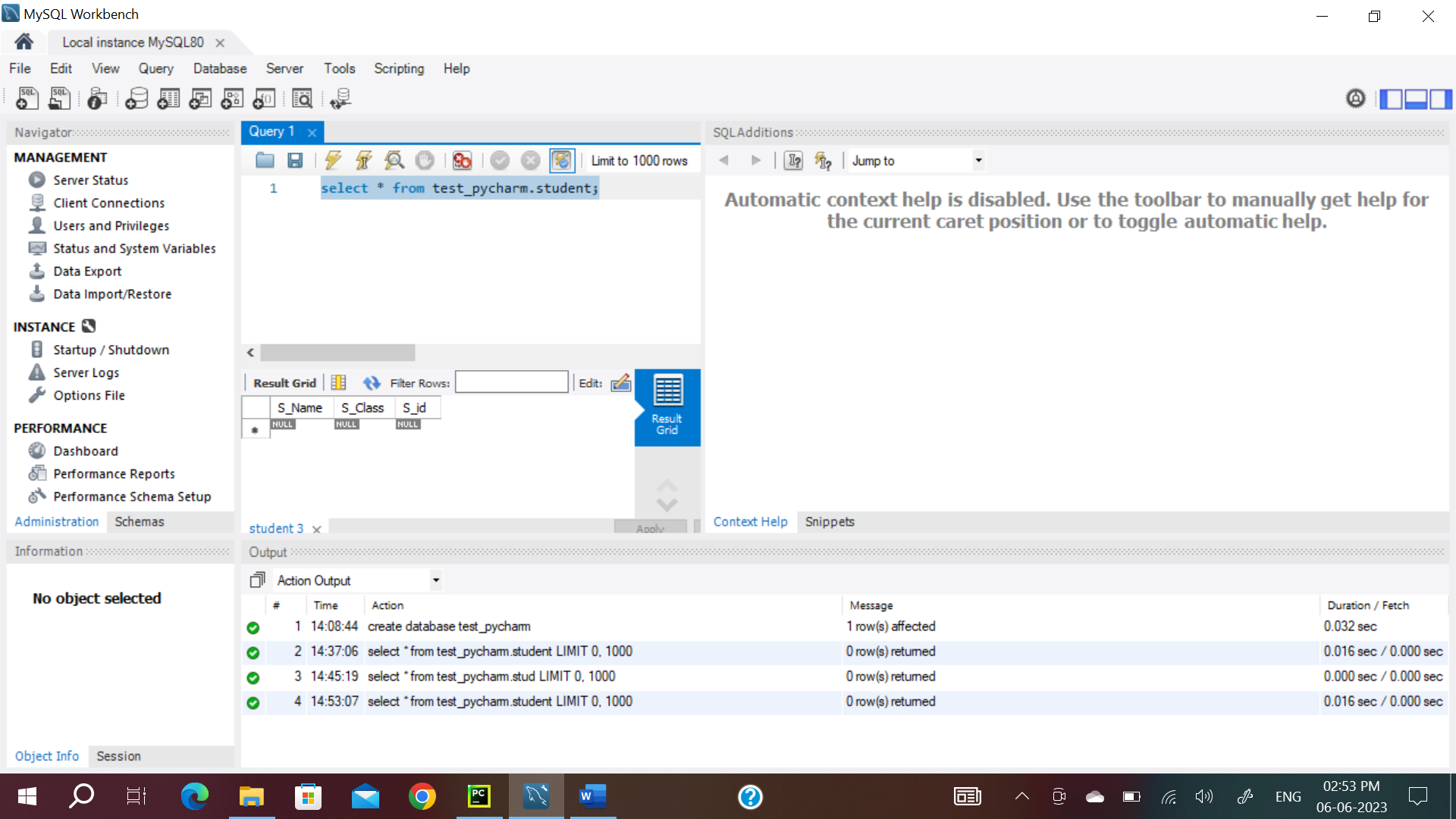
**Output:-**



**Alter table:-**import mysql.connector  
conn = mysql.connector.Connect(host="localhost",username="root",password="Tanuja@29", database="test\_pycharm")  
my\_cur = conn.cursor()  
  
my\_cur.execute("ALTER TABLE student ADD COLUMN S\_id INT AUTO\_INCREMENT PRIMARY KEY")  
print("Table Altered")  
conn.close()

**Output:-**

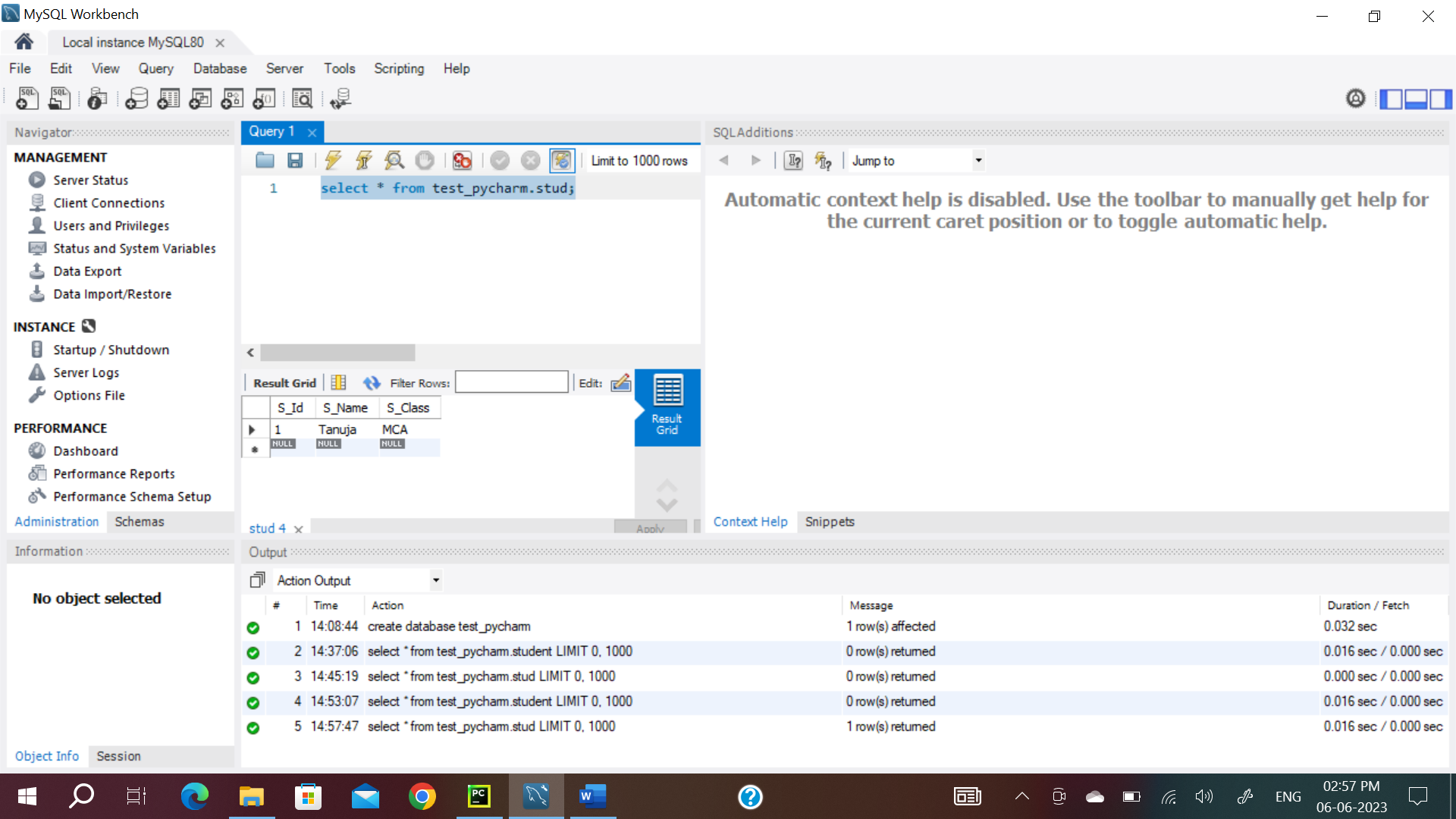
Table Altered



**Insert records:-**import mysql.connector  
  
conn = mysql.connector.Connect(host="localhost",username="root",password="Tanuja@29", database="test\_pycharm")  
my\_cur = conn.cursor()  
  
sql = "INSERT INTO stud(S\_id,S\_Name,S\_Class) VALUES (%s,%s, %s)"  
val =("1","Tanuja", "MCA")  
my\_cur.execute(sql, val)  
conn.commit()  
print("Done")  
conn.close()

**Output:-**

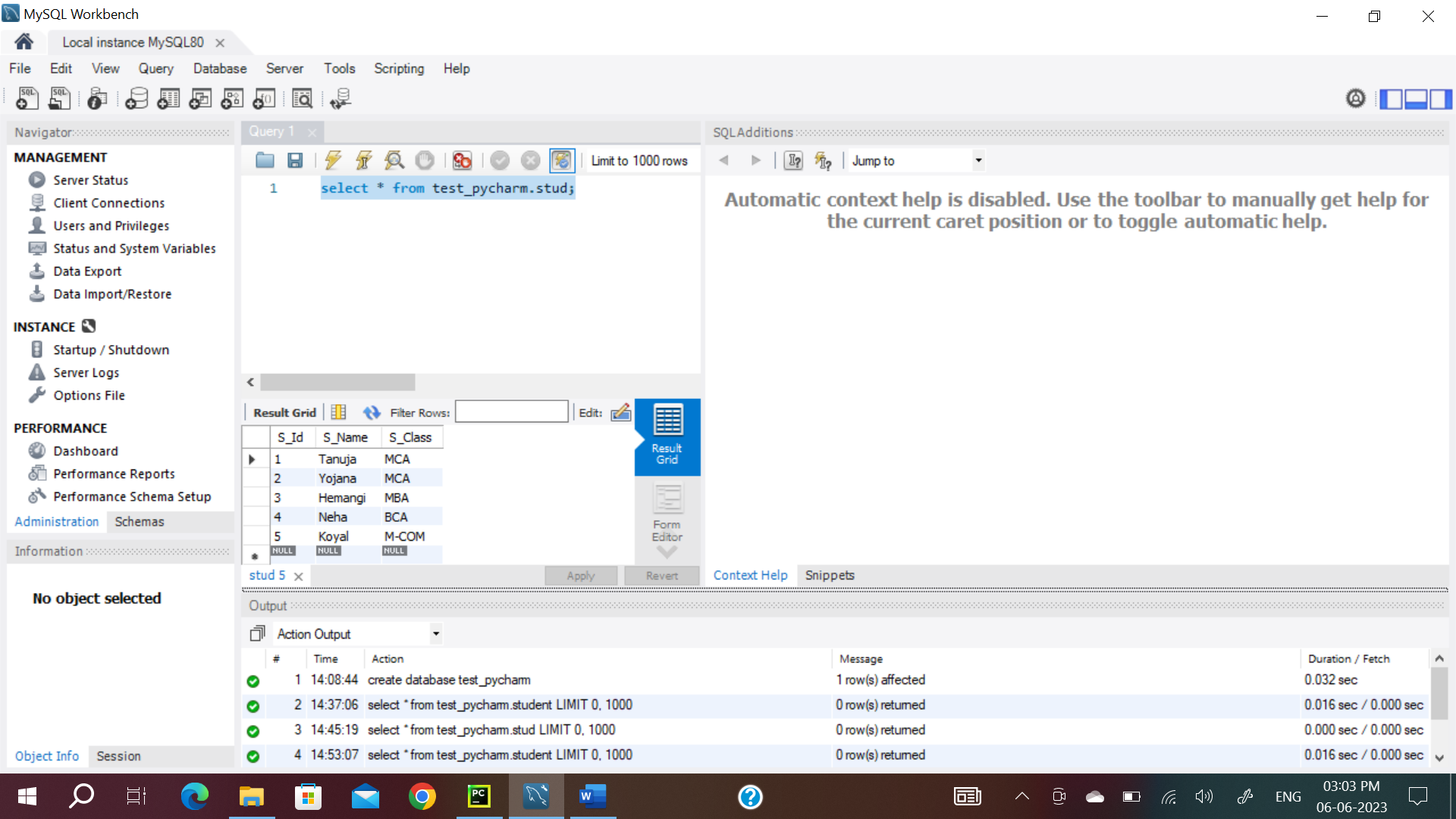
Done



**Insert multiple records:-**  
import mysql.connector  
conn = mysql.connector.Connect(host="localhost",username="root",password="Tanuja@29", database="test\_pycharm")  
my\_cur = conn.cursor()  
  
sql = "INSERT INTO stud(S\_id,S\_Name,S\_Class) VALUES (%s,%s, %s)"  
val = [  
 ("2","Yojana","MCA"),  
 ("3","Hemangi", "MBA"),  
 ("4","Neha", "BCA"),  
 ("5","Koyal","M-COM")  
 ]  
my\_cur.executemany(sql, val)  
conn.commit()  
print("Done")  
conn.close()

**Output:-**

Done



**Select statement (show records)**  
  
import mysql.connector  
  
conn = mysql.connector.Connect(host="localhost",username="root",password="Tanuja@29", database="test\_pycharm")  
my\_cur = conn.cursor()  
  
my\_cur.execute("SELECT \* FROM test\_pycharm.stud;")  
  
Records = my\_cur.fetchall()  
for x in Records:  
 print(x)  
  
conn.close()

**Output:-**

**s**

(1, 'Tanuja', 'MCA')

(2, 'Yojana', 'MCA')

(3, 'Hemangi', 'MBA')

(4, 'Neha', 'BCA')

(5, 'Koyal', 'M-COM')

**Using where statement:-**  
import mysql.connector  
  
conn = mysql.connector.Connect(host="localhost",username="root",password="Tanuja@29", database="test\_pycharm")  
my\_cur = conn.cursor()  
  
Query = "SELECT \* FROM stud WHERE S\_id =1"  
  
my\_cur.execute(Query)  
  
records = my\_cur.fetchall()  
for x in records:  
 print(x)  
conn.close()

**Output:-**

(1, 'Tanuja', 'MCA')