

1)

Started doing with cmd

```
Администратор: Командная строка - mysql -u root -p
командой, исполняемой программой или пакетным файлом.

C:\WINDOWS\system32>
C:\WINDOWS\system32>cd "C:\Program Files\MySQL\MySQL Server 8.0\bin"

C:\Program Files\MySQL\MySQL Server 8.0\bin>mysql -u root -p
Enter password: *****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 8
Server version: 8.0.31 MySQL Community Server - GPL

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owners.

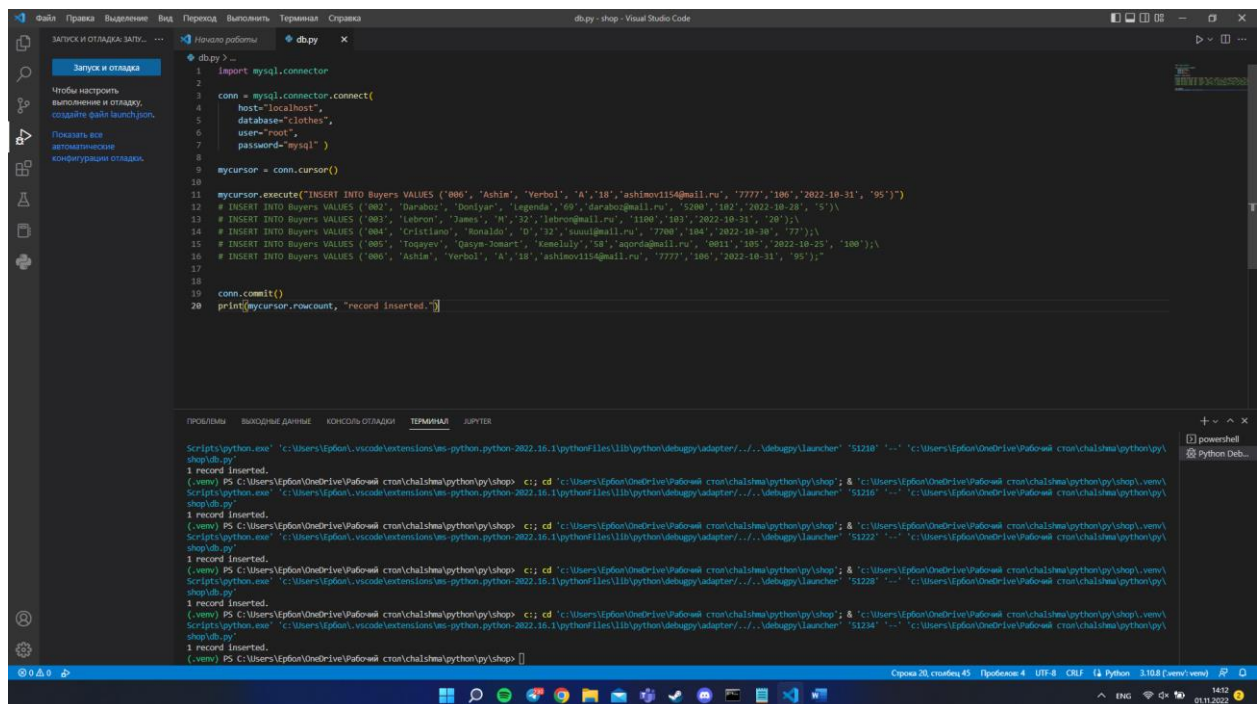
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> create database clothes;
Query OK, 1 row affected (0.01 sec)

mysql> use clothes;
Database changed
mysql> create table Buyers(id int, surname varchar(20), first_name varchar(20), patronymic varchar(20), age int, email varchar(20), phone_number varchar(20), purchase_rec_num int, purchase_date date, bonuses int);
Query OK, 0 rows affected (0.02 sec)

mysql> create table Products(id int, price int, number_of_units int, name varchar(20), description varchar(100));
Query OK, 0 rows affected (0.01 sec)
```

Then understood that must work with python so continued in vscode

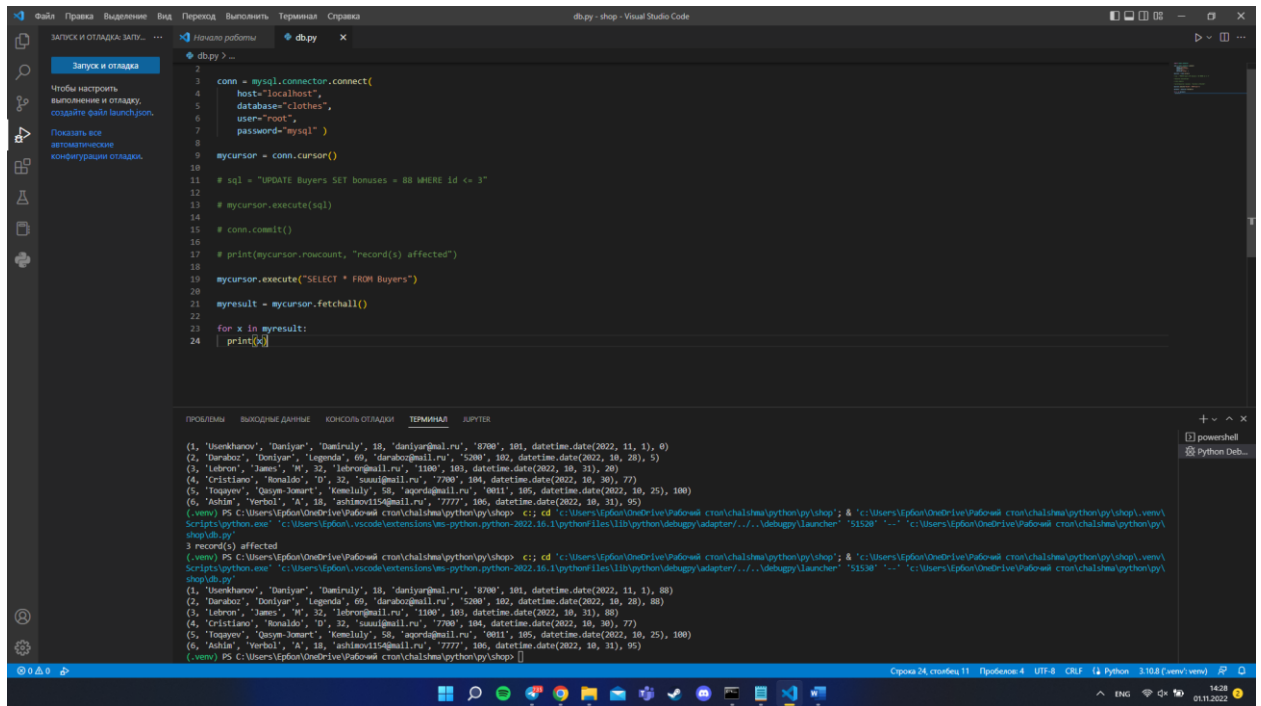


```
db.py
1 import mysql.connector
2
3 conn = mysql.connector.connect(
4     host="localhost",
5     database="clothes",
6     user="root",
7     password="mysql"
8 )
9 mycursor = conn.cursor()
10
11 mycursor.execute("INSERT INTO Buyers VALUES ('000', 'Ashim', 'Verbol', 'A', '18', 'ashimov115@mail.ru', '7777', '106', '2022-10-31', '95')")
12 # INSERT INTO Buyers VALUES ('002', 'Daraboz', 'Doniyar', 'legenda', '69', 'daraboz@mail.ru', '5200', '102', '2022-10-28', '5')\
13 # INSERT INTO Buyers VALUES ('003', 'Lebron', 'James', 'M', '32', 'lebron@mail.ru', '1000', '103', '2022-10-31', '20')\
14 # INSERT INTO Buyers VALUES ('004', 'Cristiano', 'Ronaldo', 'D', '32', 'sunu@mail.ru', '7700', '104', '2022-10-30', '77')\
15 # INSERT INTO Buyers VALUES ('005', 'Toqayev', 'Qasym-Jomart', 'Keneluly', '58', 'aqord@mail.ru', '0011', '105', '2022-10-25', '100')\
16 # INSERT INTO Buyers VALUES ('006', 'Ashim', 'Verbol', 'A', '18', 'ashimov115@mail.ru', '7777', '106', '2022-10-31', '95')\
17
18 conn.commit()
19 print(mycursor.rowcount, "record inserted.")
20
```

```
Scripts\python.exe "c:\Users\Epfon\vscode\extensions\ms-python.python-2022.16.1\pythonFiles\lib\python\debugpy\adapter\..\..\debugpy\launcher" "51228" "-c" "c:\Users\Epfon\OneDrive\Рабочий стол\chalshea\python\py\shop\db.py"
1 record inserted.
(.venv) PS C:\Users\Epfon\OneDrive\Рабочий стол\chalshea\python\py\shop> cd "c:\Users\Epfon\OneDrive\Рабочий стол\chalshea\python\py\shop" & "c:\Users\Epfon\OneDrive\Рабочий стол\chalshea\python\py\shop\..venv\Scripts\python.exe" "c:\Users\Epfon\vscode\extensions\ms-python.python-2022.16.1\pythonFiles\lib\python\debugpy\adapter\..\..\debugpy\launcher" "51226" "-c" "c:\Users\Epfon\OneDrive\Рабочий стол\chalshea\python\py\shop\db.py"
1 record inserted.
(.venv) PS C:\Users\Epfon\OneDrive\Рабочий стол\chalshea\python\py\shop> cd "c:\Users\Epfon\OneDrive\Рабочий стол\chalshea\python\py\shop" & "c:\Users\Epfon\OneDrive\Рабочий стол\chalshea\python\py\shop\..venv\Scripts\python.exe" "c:\Users\Epfon\vscode\extensions\ms-python.python-2022.16.1\pythonFiles\lib\python\debugpy\adapter\..\..\debugpy\launcher" "51222" "-c" "c:\Users\Epfon\OneDrive\Рабочий стол\chalshea\python\py\shop\db.py"
1 record inserted.
(.venv) PS C:\Users\Epfon\OneDrive\Рабочий стол\chalshea\python\py\shop> cd "c:\Users\Epfon\OneDrive\Рабочий стол\chalshea\python\py\shop" & "c:\Users\Epfon\OneDrive\Рабочий стол\chalshea\python\py\shop\..venv\Scripts\python.exe" "c:\Users\Epfon\vscode\extensions\ms-python.python-2022.16.1\pythonFiles\lib\python\debugpy\adapter\..\..\debugpy\launcher" "51234" "-c" "c:\Users\Epfon\OneDrive\Рабочий стол\chalshea\python\py\shop\db.py"
1 record inserted.
(.venv) PS C:\Users\Epfon\OneDrive\Рабочий стол\chalshea\python\py\shop>
```

(I could use “executemany” to insert multiple rows, but I had all rows done, so I decided to insert one by one without using arrays for executing)

- Make a selection from the "Buyers" table and display the buyers who have made a purchase of goods in the last 3 days;

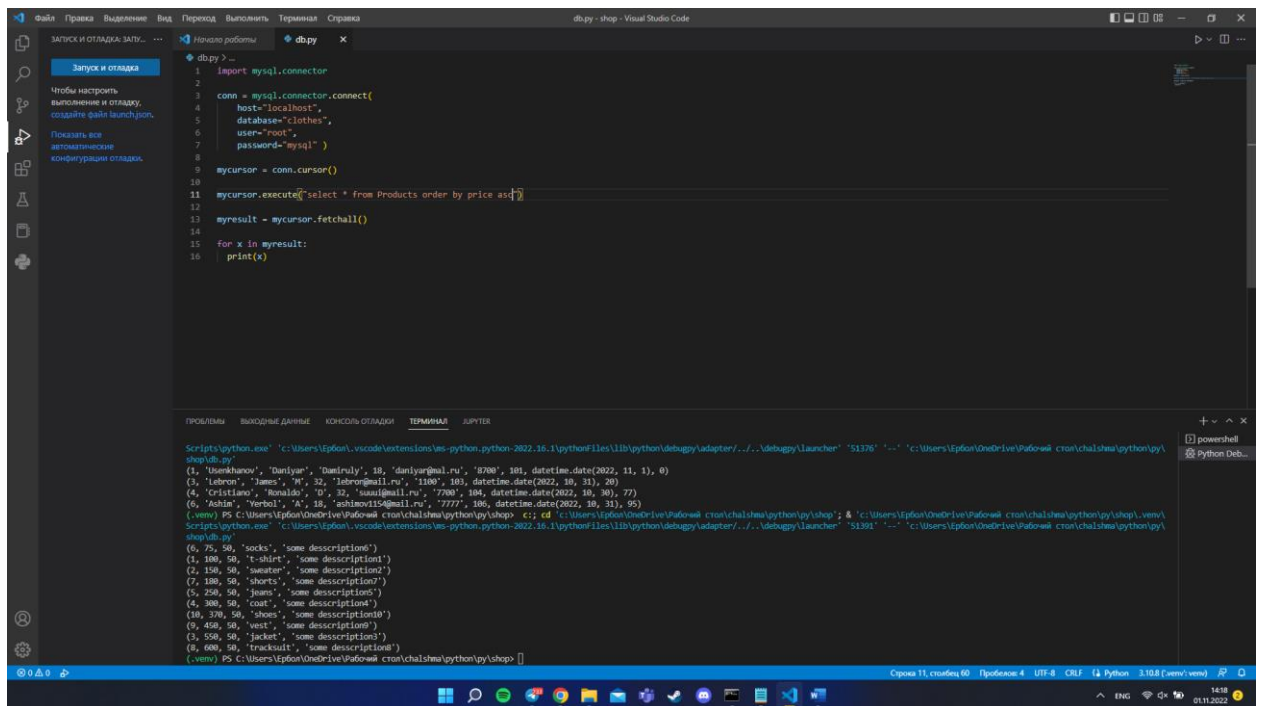


```
db.py > ...
2
3
4 conn = mysql.connector.connect(
5     host="localhost",
6     database="clothes",
7     user="root",
8     password="mysql" )
9
10 mycursor = conn.cursor()
11
12 # sql = "UPDATE Buyers SET bonuses = 88 WHERE Id <= 3"
13 # mycursor.execute(sql)
14
15 # conn.commit()
16
17 # print(mycursor.rowcount, "record(s) affected")
18
19 mycursor.execute("SELECT * FROM Buyers")
20
21 myresult = mycursor.fetchall()
22
23 for x in myresult:
24     print(x)
```

3 records(s) affected

```
(1, 'Userkhanov', 'Daniyar', 'Damiuly', 18, 'daniyar@mail.ru', '8700', 181, datetime.date(2022, 11, 1), 0)
(2, 'Daraboz', 'Doniyan', 'Legenda', 69, 'daraboz@mail.ru', '5200', 182, datetime.date(2022, 10, 28), 5)
(3, 'Lebron', 'James', 'H', 32, 'lebron@mail.ru', '1180', 183, datetime.date(2022, 10, 31), 30)
(4, 'Cristiano', 'Ronaldo', 'D', 32, 'cristiano@mail.ru', '7780', 184, datetime.date(2022, 10, 30), 77)
(5, 'Iqayev', 'Qayem-Jomart', 'Kemeily', 58, 'aqayev@mail.ru', '0811', 185, datetime.date(2022, 10, 25), 180)
(6, 'Ashim', 'Yerbol', 'A', 18, 'ashimov154@mail.ru', '7777', 186, datetime.date(2022, 10, 31), 95)
```

- Make a selection from the "Products" table and sort the products in ascending order of price



```
db.py > ...
1 import mysql.connector
2
3 conn = mysql.connector.connect(
4     host="localhost",
5     database="clothes",
6     user="root",
7     password="mysql" )
8
9 mycursor = conn.cursor()
10
11 mycursor.execute("select * from Products order by price asc")
12
13 myresult = mycursor.fetchall()
14
15 for x in myresult:
16     print(x)
```

```
(1, 'Userkhanov', 'Daniyar', 'Damiuly', 18, 'daniyar@mail.ru', '8700', 181, datetime.date(2022, 11, 1), 0)
(3, 'Lebron', 'James', 'H', 32, 'lebron@mail.ru', '1180', 183, datetime.date(2022, 10, 31), 30)
(4, 'Cristiano', 'Ronaldo', 'D', 32, 'cristiano@mail.ru', '7780', 184, datetime.date(2022, 10, 30), 77)
(6, 'Ashim', 'Yerbol', 'A', 18, 'ashimov154@mail.ru', '7777', 186, datetime.date(2022, 10, 31), 95)
```

```
(6, 75, 50, 'socks', 'some description')
(1, 180, 50, 't-shirt', 'some description')
(2, 150, 50, 'sweater', 'some description')
(7, 180, 50, 'shorts', 'some description')
(5, 250, 50, 'jeans', 'some description')
(4, 300, 50, 'coat', 'some description')
(10, 370, 50, 'shoes', 'some description')
(9, 450, 50, 'vest', 'some description')
(3, 550, 50, 'jacket', 'some description')
(8, 600, 50, 'tracksuit', 'some description')
```

3)

