

Name: MEHTA PRALAYKUMAR MAHENDRABHAI

Sub: Internship of python(online)

Branch: IT

College name: GEC Modasa

Year : 3rd year

Mo no: 8347038378

Guided by: Devanshi ma'm

Company name: Akash Technolabs

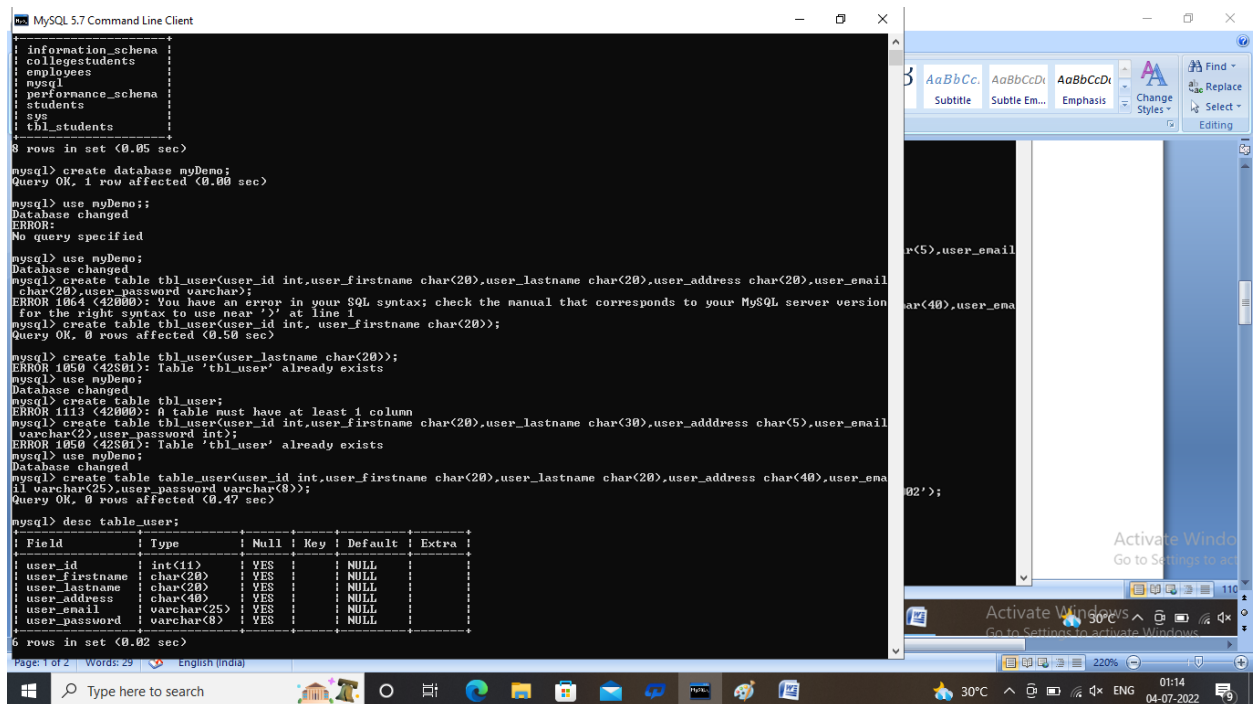
Exercise : Python Task

Date : 03/07/2022

(Program – 1): Create a database called "myDemo". Create table called "table_user". "table_user" has following columns:

- user_id
- user_firstname
- user_lastname
- user_address
- user_email
- user_password

Output:



```
MySQL 5.7 Command Line Client
mysql> show databases;
+-----+
| information_schema |
| collegestudents   |
| employees          |
| mysql              |
| performance_schema |
| student            |
| sys                |
| tbl_students       |
+-----+
8 rows in set (0.05 sec)

mysql> create database myDemo;
Query OK, 1 row affected (0.00 sec)

mysql> use myDemo;
Database changed

mysql> create table tbl_user(user_id int, user_firstname char(20), user_lastname char(20), user_address char(20), user_email char(20), user_password varchar(20));
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near ')' at line 1
mysql> create table tbl_user(user_id int, user_firstname char(20));
Query OK, 0 rows affected (0.50 sec)

mysql> create table tbl_user(user_lastname char(20));
ERROR 1050 (42S01): Table 'tbl_user' already exists
mysql> use myDemo;
Database changed
mysql> create table tbl_user;
ERROR 1113 (42000): A table must have at least 1 column
mysql> create table tbl_user(user_id int, user_firstname char(20), user_lastname char(30), user_address char(5), user_email varchar(2), user_password int);
ERROR 1050 (42S01): Table 'tbl_user' already exists
mysql> use myDemo;
Database changed
mysql> create table table_user(user_id int, user_firstname char(20), user_lastname char(20), user_address char(40), user_email varchar(25), user_password varchar(8));
Query OK, 0 rows affected (0.47 sec)

mysql> desc table_user;
+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| user_id | int(11) | YES | | NULL | |
| user_firstname | char(20) | YES | | NULL | |
| user_lastname | char(20) | YES | | NULL | |
| user_address | char(40) | YES | | NULL | |
| user_email | varchar(25) | YES | | NULL | |
| user_password | varchar(8) | YES | | NULL | |
+-----+
6 rows in set (0.02 sec)
```

The screenshot shows a Windows desktop with a MySQL 5.7 Command Line Client window and a Microsoft Word document. The MySQL window displays the following output:

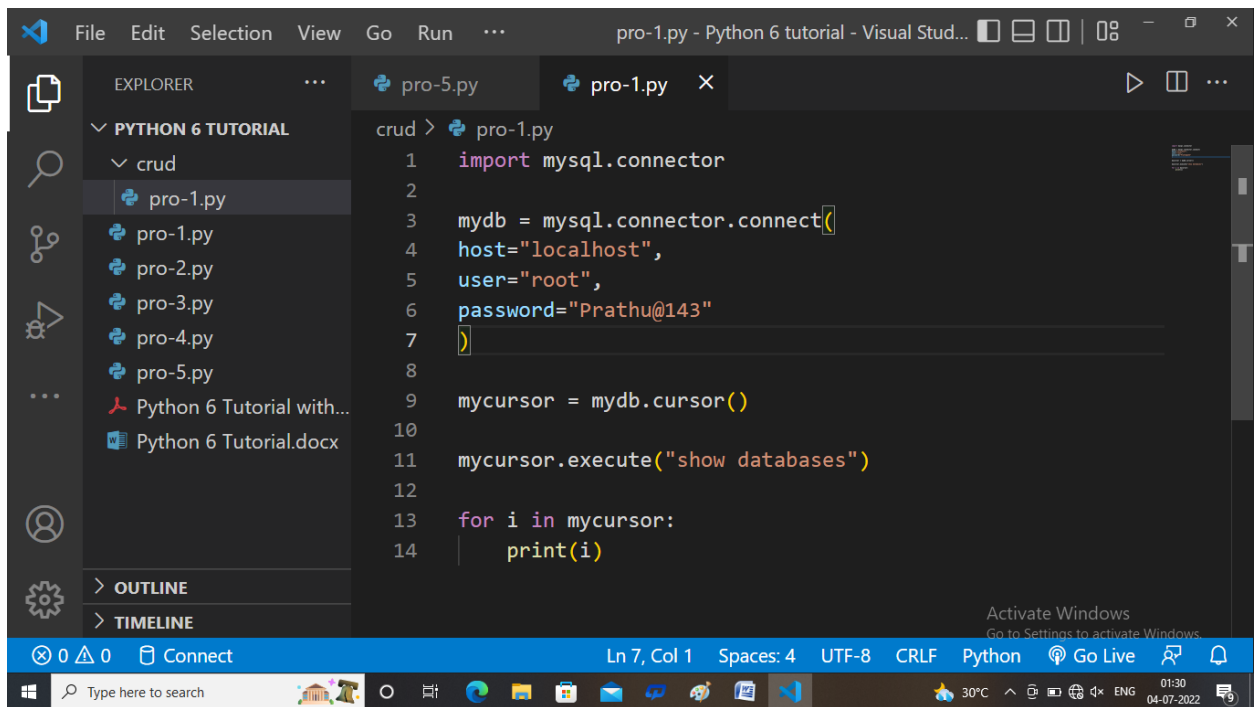
mysql> show databases;

Field	Type	Null	Key	Default	Extra
user_id	int(11)	YES		NULL	
user_firstname	char(20)	YES		NULL	
user_lastname	char(20)	YES		NULL	
user_address	char(40)	YES		NULL	
user_email	varchar(25)	YES		NULL	
user_password	varchar(8)	YES		NULL	

6 rows in set (0.02 sec)

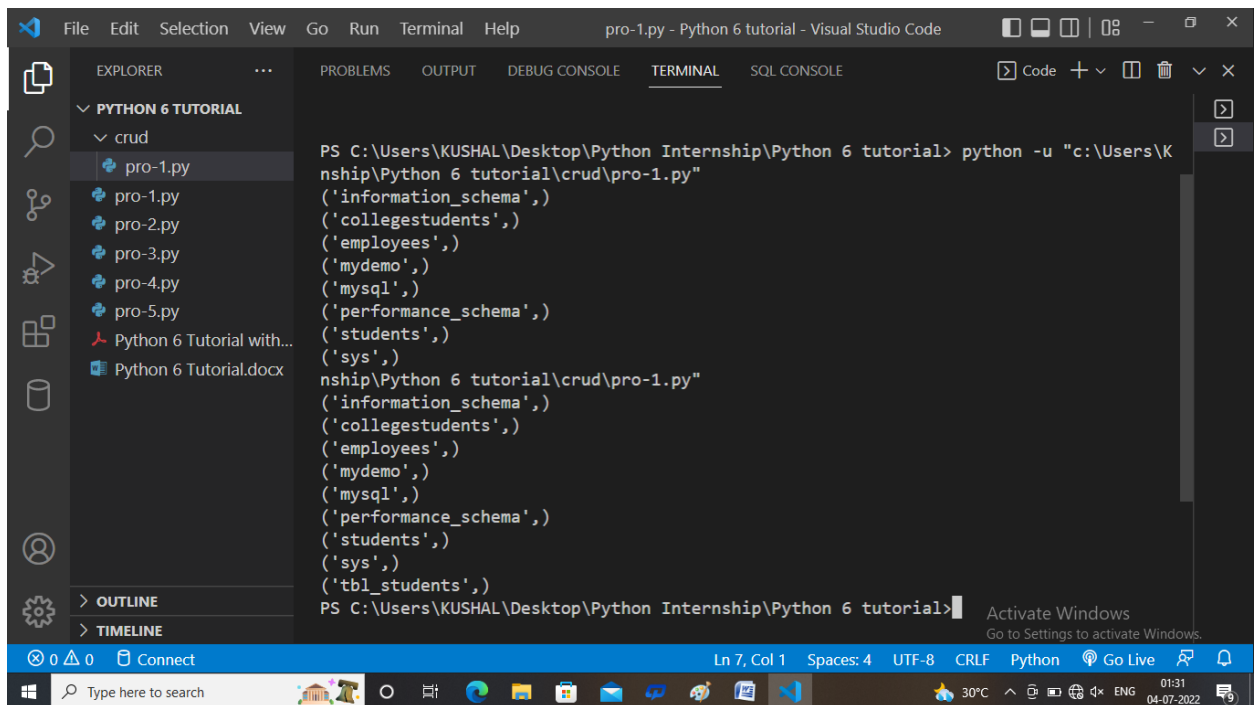
(Program – 2): Show Databases:

Code:



```
1 import mysql.connector
2
3 mydb = mysql.connector.connect(
4     host="localhost",
5     user="root",
6     password="Prathu@143"
7 )
8
9 mycursor = mydb.cursor()
10
11 mycursor.execute("show databases")
12
13 for i in mycursor:
14     print(i)
```

Output:



```
PS C:\Users\KUSHAL\Desktop\Python Internship\Python 6 tutorial> python -u "c:\Users\KUSHAL\Desktop\Python Internship\Python 6 tutorial\crud\pro-1.py"
('information_schema',)
('collegestudents',)
('employees',)
('mydemo',)
('mysql',)
('performance_schema',)
('students',)
('sys',)
PS C:\Users\KUSHAL\Desktop\Python Internship\Python 6 tutorial>
```

(Program – 3): Insert Data:

Code:

```
import mysql.connector

conn = mysql.connector.connect(
    host="localhost",
    user="root",
    password="Prathu@143",
    database="myDemo"
)

mycursor = conn.cursor()

sql = "INSERT INTO table_user
(user_id,user_firstname,user_lastname,user_address, user_email,user_password)
VALUES(001,'Prajapati','Devanshi','Ahemdabad','d@gmail.com',
034),(002,'Sharma','Prachi','Rajkot','pr@gmail.com',
030),(003,'Suthar','Naiya','Bayad','na@gmail.com',027)"

mycursor.execute(sql)

conn.commit()

print(mycursor.rowcount, "row inserted.")
```

The screenshot shows the Visual Studio Code interface with a Python file named `pro-2.py` open. The code connects to a MySQL database and inserts three rows into the `table_user` table. The terminal output shows the successful execution of the script.

```
C:\Users\KUSHAL\Desktop\Python Internship> crud > pro-2.py
1 import mysql.connector
2
3 conn = mysql.connector.connect(
4     host="localhost",
5     user="root",
6     password="Prathu@143",
7     database="myDemo"
8 )
9
10 mycursor = conn.cursor()
11
12 sql = "INSERT INTO table_user (user_id,user_firstname,user_lastname,user_address, user_email, user_password) VALUES(00
13
14 mycursor.execute(sql)
15
16 conn.commit()
17
18 print(mycursor.rowcount, "row inserted.")
```

Terminal Output:

```
PS C:\Users\KUSHAL\Desktop\Python Internship\Python 6 tutorial> python -u "c:\Users\KUSHAL\Desktop\Python Internship\crud\pro-2.py"
3 row inserted.
PS C:\Users\KUSHAL\Desktop\Python Internship\Python 6 tutorial>
```

Output:

The screenshot shows the MySQL Command Line Client interface. The user has executed two queries: `SHOW databases;` and `USE myDemo; select * from table_user;`. The output shows the list of databases and the contents of the `table_user` table.

```
mysql> SHOW databases;
+-----+
| Database |
+-----+
| information_schema |
| collegestudents |
| employees |
| mydemo |
| mysql |
| performance_schema |
| students |
| sys |
| tbl_students |
+-----+
9 rows in set (0.00 sec)
```

mysql> USE myDemo;
Database changed
mysql> select * from table_user;

user_id	user_firstname	user_lastname	user_address	user_email	user_password
1	Prajapati	Devanshi	Ohendabad	d@gmail.com	34
2	Sharma	Prachi	Rajkot	pr@gmail.com	30
3	Suthar	Naiya	Bayad	na@gmail.com	27

mysql> _

(Program – 4): Display Data:

Code:

```
import mysql.connector

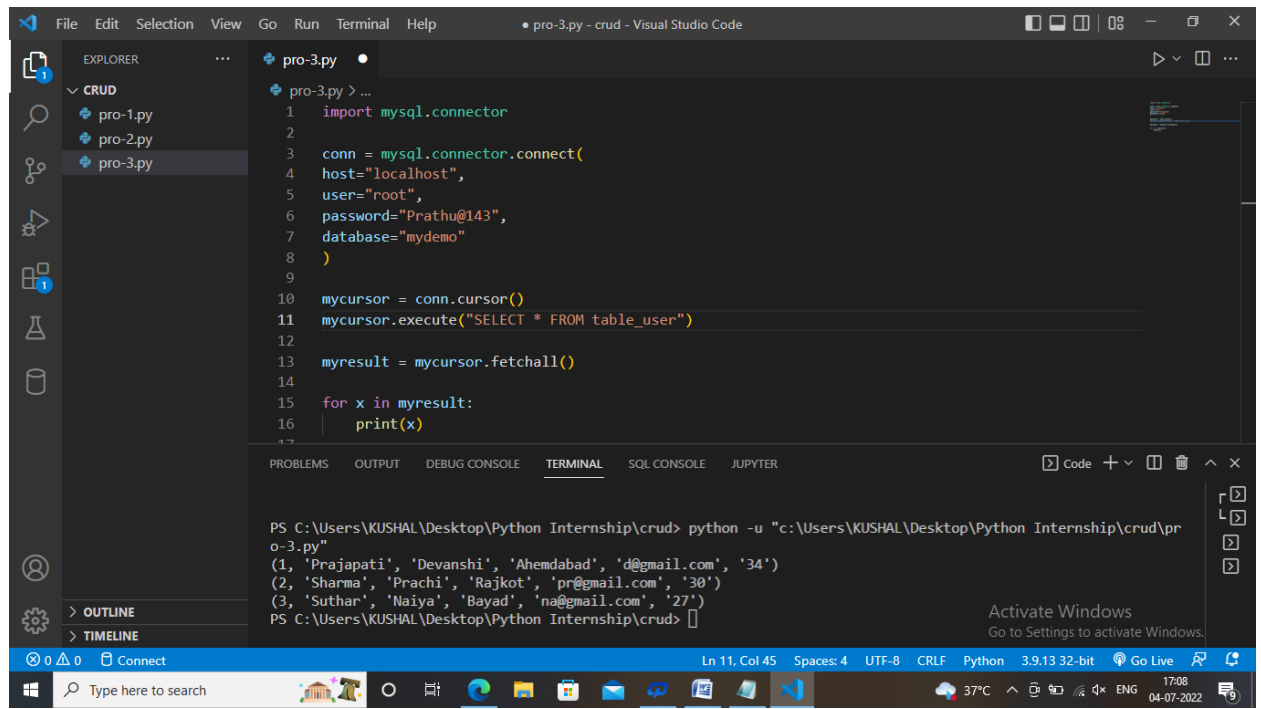
conn = mysql.connector.connect(
    host="localhost",
    user="root",
    password="Prathu@143",
    database="mydemo"
)

mycursor = conn.cursor()
mycursor.execute("SELECT * FROM table_user")

myresult = mycursor.fetchall()

for x in myresult:
    print(x)
```

Output:



(Program – 5): Update Data:

Code:

```
import mysql.connector
```

```
conn = mysql.connector.connect(  
    host="localhost",  
    user="root",  
    password="Prathu@143",  
    database="mydemo"  
)
```

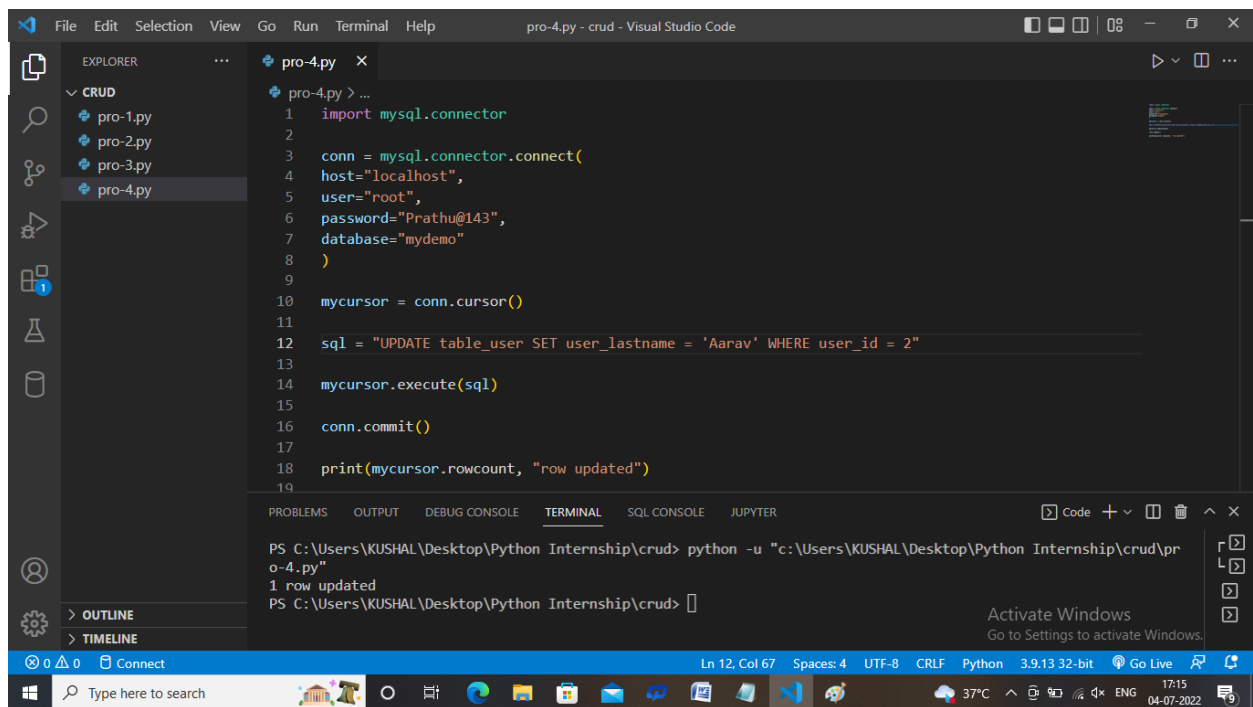
```
mycursor = conn.cursor()
```

```
sql = "UPDATE table_user SET user_lastname = 'Aarav' WHERE user_id = 2"
```

```
mycursor.execute(sql)
```

```
conn.commit()
```

```
print(mycursor.rowcount, "row updated")
```



```
File Edit Selection View Go Run Terminal Help pro-4.py - crud - Visual Studio Code
```

EXPLORER

- CRUD
 - pro-1.py
 - pro-2.py
 - pro-3.py
 - pro-4.py

```
pro-4.py > ...
1  import mysql.connector
2
3  conn = mysql.connector.connect(
4      host="localhost",
5      user="root",
6      password="Prathu@143",
7      database="mydemo"
8  )
9
10 mycursor = conn.cursor()
11
12 sql = "UPDATE table_user SET user_lastname = 'Aarav' WHERE user_id = 2"
13
14 mycursor.execute(sql)
15
16 conn.commit()
17
18 print(mycursor.rowcount, "row updated")
19
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL SQL CONSOLE JUPYTER

```
PS C:\Users\KUSHAL\Desktop\Python Internship\crud> python -u "c:\Users\KUSHAL\Desktop\Python Internship\crud\pro-4.py"
1 row updated
PS C:\Users\KUSHAL\Desktop\Python Internship\crud>
```

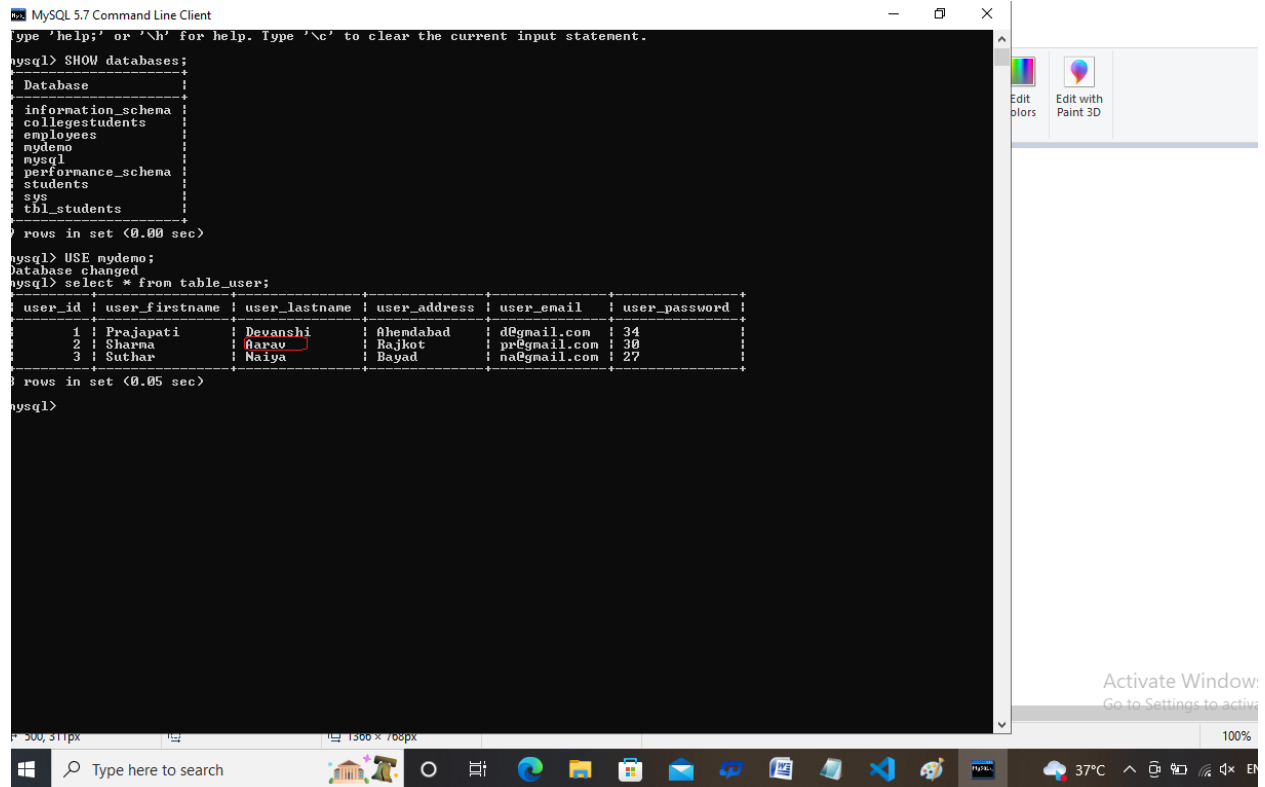
Activate Windows
Go to Settings to activate Windows.

Ln 12, Col 67 Spaces: 4 UTF-8 CRLF Python 3.9.13 32-bit Go Live

Type here to search

37°C 17:15 04-07-2022

Output:



The screenshot shows the MySQL 5.7 Command Line Client interface. The user has executed the following commands:

```
mysql> SHOW databases;
mysql> USE mydemo;
mysql> select * from table_user;
```

The output of the first command shows a list of databases. The output of the third command shows the contents of the 'table_user' table.

user_id	user_firstname	user_lastname	user_address	user_email	user_password
1	Prajapati	Devanshi	Ahmedabad	d@gmail.com	34
2	Sharma	Rav	Rajkot	pr@gmail.com	30
3	Suthar	Naiya	Barad	na@gmail.com	27

(Program – 6): Delete Data:

Code:

```
import mysql.connector

conn = mysql.connector.connect(
    host="localhost",
    user="root",
    password="Prathu@143",
    database="mydemo"
```

)

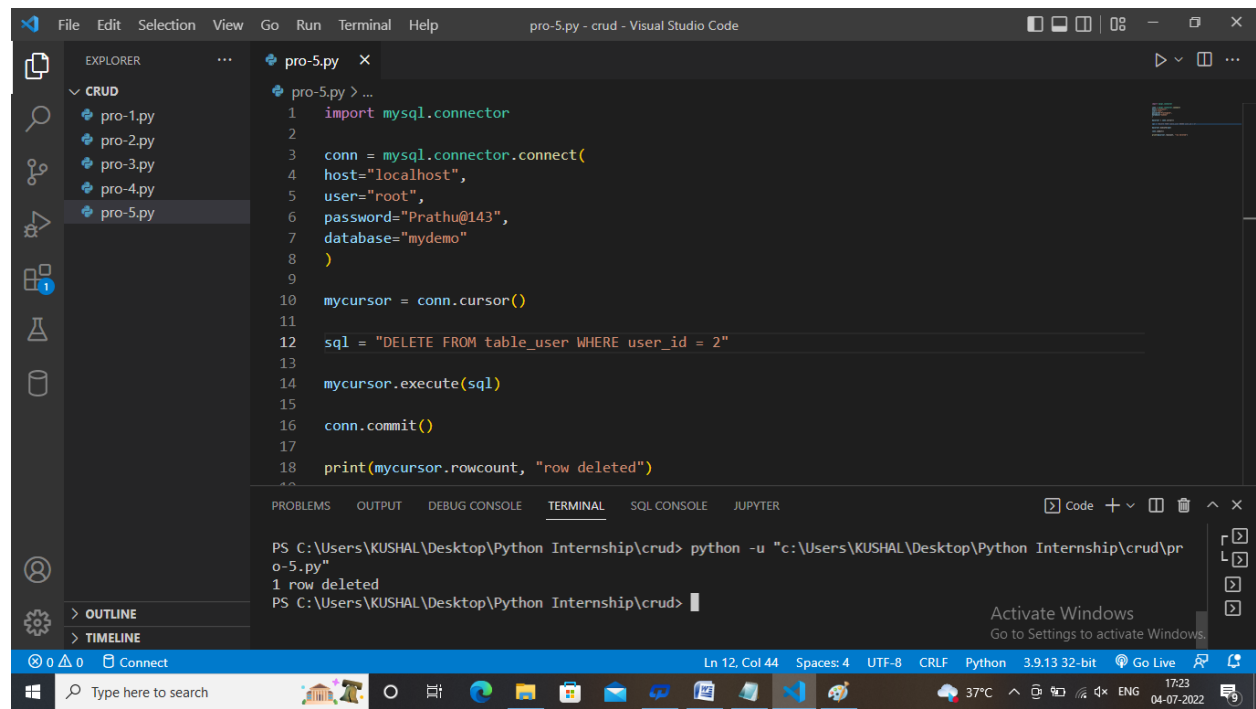
```
mycursor = conn.cursor()
```

```
sql = "DELETE FROM table_user WHERE user_id = 2"
```

```
mycursor.execute(sql)
```

```
conn.commit()
```

```
print(mycursor.rowcount, "row deleted")
```



```
File Edit Selection View Go Run Terminal Help pro-5.py - crud - Visual Studio Code
```

EXPLORER

- CRUD
 - pro-1.py
 - pro-2.py
 - pro-3.py
 - pro-4.py
 - pro-5.py

```
pro-5.py > ...
1  import mysql.connector
2
3  conn = mysql.connector.connect(
4  host="localhost",
5  user="root",
6  password="Prathu@143",
7  database="mydemo"
8  )
9
10 mycursor = conn.cursor()
11
12 sql = "DELETE FROM table_user WHERE user_id = 2"
13
14 mycursor.execute(sql)
15
16 conn.commit()
17
18 print(mycursor.rowcount, "row deleted")
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL SQL CONSOLE JUPYTER

```
PS C:\Users\KUSHAL\Desktop\Python Internship\crud> python -u "c:\Users\KUSHAL\Desktop\Python Internship\crud\pro-5.py"
1 row deleted
PS C:\Users\KUSHAL\Desktop\Python Internship\crud>
```

Ln 12, Col 44 Spaces: 4 UTF-8 CRLF Python 3.9.13 32-bit Go Live

Activate Windows
Go to Settings to activate Windows.

Type here to search

37°C 17:23 04-07-2022

Output:

```
MySQL 5.7 Command Line Client
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> SHOW databases;
+-----+
| Database |
+-----+
| information_schema |
| collegestudents |
| employees |
| mydemo |
| mysql |
| performance_schema |
| students |
| sys |
| tbl_students |
+-----+
9 rows in set (0.00 sec)

mysql> USE mydemo;
Database changed
mysql> select * from table_user;
+----+-----+-----+-----+-----+-----+
| user_id | user_firstname | user_lastname | user_address | user_email | user_password |
+----+-----+-----+-----+-----+-----+
| 1 | Prajapati | Devanshi | Bhendabad | d@gmail.com | 34 |
| 3 | Suthar | Naiya | Bayad | na@gmail.com | 27 |
+----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)

mysql> _
```

Page: 11 of 13 | Words: 203 | English (India)

Activate Windows
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17:25
04-07-2022

