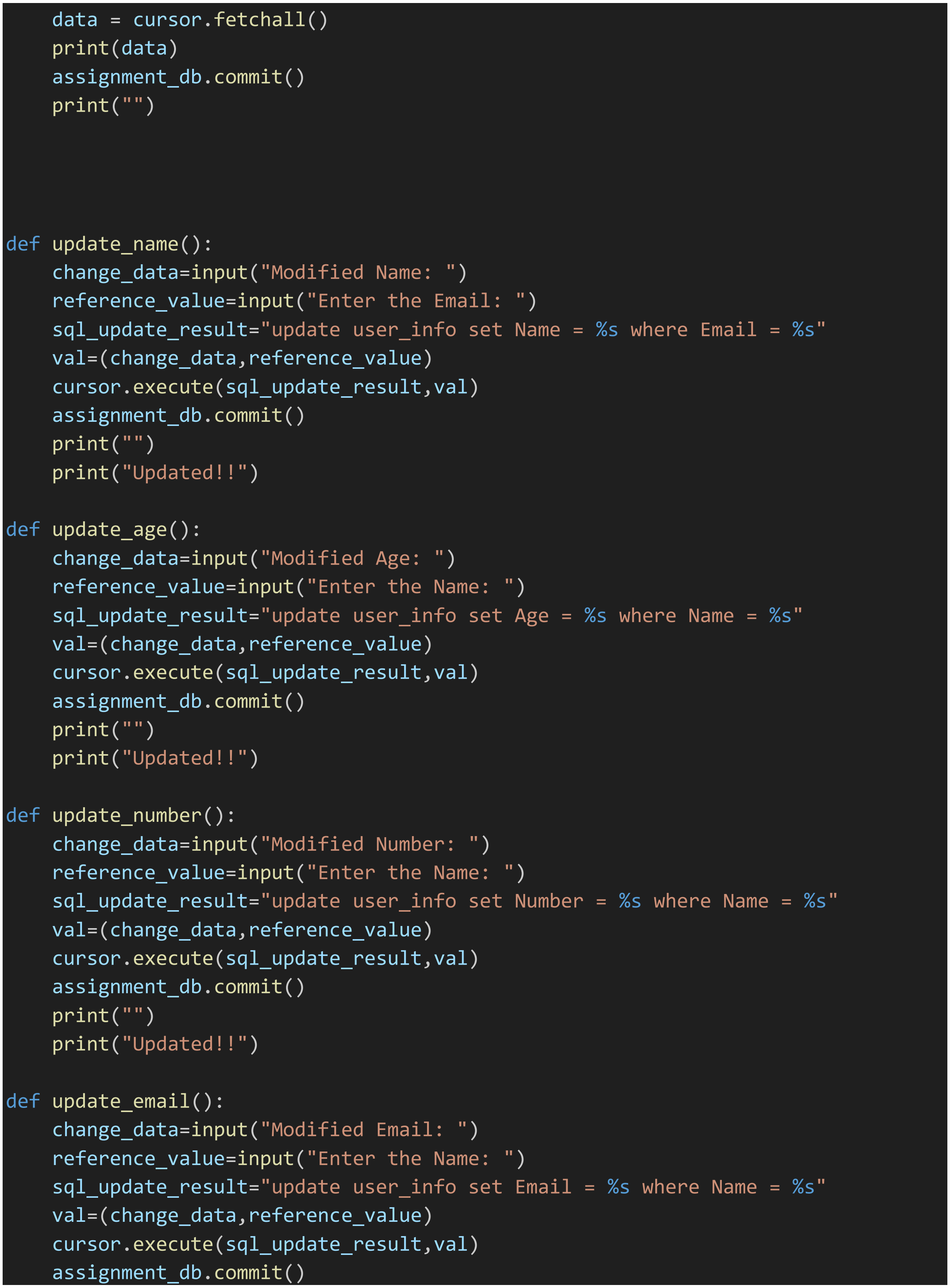
Besant Technologies Python Course:
Python Assignment (done by Vaishnav Nishanth AV):
Day 23 (01.09.23) (Sql Syntax in cmd)

Code:

```
import mysql.connector

assignment_db=mysql.connector.connect(
    host="localhost",
    username="root",
    password="12345",
    database="assignment_db"
)

cursor = assignment_db.cursor()

def create_table():
    sql_create_table="create table user_info (S_no int, Name varchar(255),Age varchar(255),Number varchar(255),Email varchar(255))"
    cursor.execute(sql_create_table)
    assignment_db.commit()
    print("Table created !!")

def insert_data():
    name=input("Enter Name: ")
    age=input("Enter Age: ")
    number=input("Enter the Mobile: ")
    email=input("Enter the email: ")

    sql_insert="insert into user_info (Name,Age,Number,Email) values (%s,%s,%s,%s)"
    val=(name,age,number,email)
    cursor.execute(sql_insert,val)
    assignment_db.commit()

    print("")
    print("Data Inserted!!")
    print("")


def view_data():
    name=input("Enter your Name: ")
    print("")
    sql_view_individual_medical_data="SELECT * FROM user_info where Name = %s;"
    cursor.execute(sql_view_individual_medical_data,(name,))
```

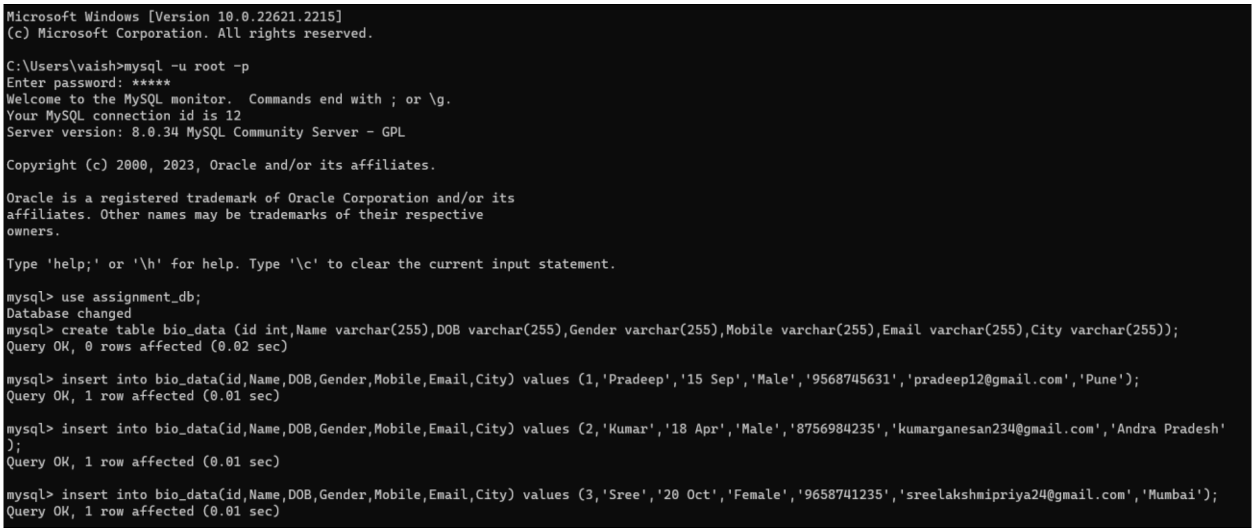


```
    data = cursor.fetchall()
    print(data)
    assignment_db.commit()
    print("")




def update_name():
    change_data=input("Modified Name: ")
    reference_value=input("Enter the Email: ")
    sql_update_result="update user_info set Name = %s where Email = %s"
    val=(change_data,reference_value)
    cursor.execute(sql_update_result,val)
    assignment_db.commit()
    print("")
    print("Updated!!")

def update_age():
    change_data=input("Modified Age: ")
    reference_value=input("Enter the Name: ")
    sql_update_result="update user_info set Age = %s where Name = %s"
    val=(change_data,reference_value)
    cursor.execute(sql_update_result,val)
    assignment_db.commit()
    print("")
    print("Updated!!")

def update_number():
    change_data=input("Modified Number: ")
    reference_value=input("Enter the Name: ")
    sql_update_result="update user_info set Number = %s where Name = %s"
    val=(change_data,reference_value)
    cursor.execute(sql_update_result,val)
    assignment_db.commit()
    print("")
    print("Updated!!")

def update_email():
    change_data=input("Modified Email: ")
    reference_value=input("Enter the Name: ")
    sql_update_result="update user_info set Email = %s where Name = %s"
    val=(change_data,reference_value)
    cursor.execute(sql_update_result,val)
    assignment_db.commit()
    print("")
    print("Updated!!")

def main2():
    print("Enter 1 -- > Change Name")
    print("Enter 2 --> Change Age")
    print("Enter 3 ---> Change Mobile")
    print("Enter 4 --> Change Email")
    print("Enter 5 --> Exit")
    print("")
    option2=int(input("Enter your option: "))

    if option2==1:
        update_name()
        main2()
    elif option2==2:
        update_age()
        main2()
    elif option2==3:
        update_number()
        main2()
    elif option2==4:
        update_email()
        main2()
    elif option2==5:
        print("Exiting...Done")

def main():
    print("[ View | Insert | Update ]")
    print("Enter 1 --> [Create Table]")
    print("Enter 2 --> [Insert Data]")
    print("Enter 3 --> [View Data]")
    print("Enter 4 --> [Update Data]")
    print("Enter 5 --> Exit")
    print("")
    option=int(input("Enter your Option: "))


    if option==1:
        create_table()
        main()

    elif option==2:
        insert_data()
        main()
    elif option==3:
        view_data()
        main()

    elif option==4:
        main2()

    elif option==5:
        print("Exiting...Done")

    else:
        print("Invalid input!!!")
main()
```

Code with immediate Output:

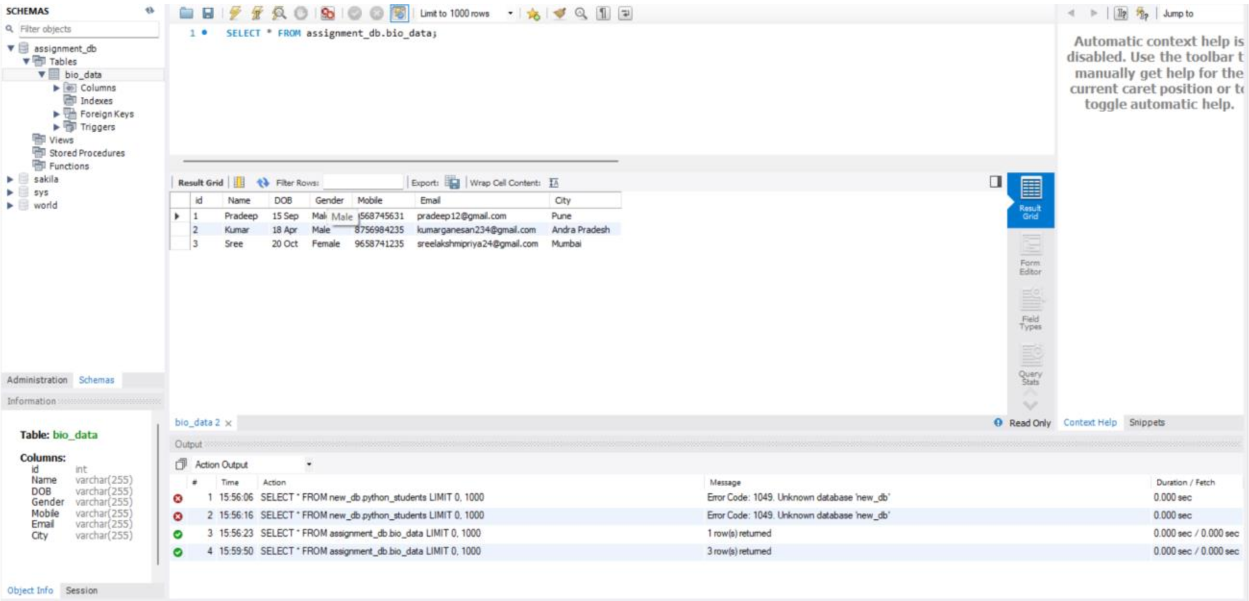
```
mysql> use assignment_db;

Database changed

mysql> create table bio_data (id int,Name varchar(255),DOB varchar(255),Gender varchar(255),Mobile varchar(255),Email varchar(255),City varchar(255));

Query OK, 0 rows affected (0.02 sec)

mysql> insert into bio_data(id,Name,DOB,Gender,Mobile,Email,City) values (1,'Pradeep','15 Sep','Male','9568745631','pradeep12@gmail.com','Pune');

Query OK, 1 row affected (0.01 sec)

mysql> insert into bio_data(id,Name,DOB,Gender,Mobile,Email,City) values (2,'Kumar','18 Apr','Male','8756984235','kumarganesan234@gmail.com','Andra Pradesh');

Query OK, 1 row affected (0.01 sec)

mysql> insert into bio_data(id,Name,DOB,Gender,Mobile,Email,City) values (3,'Sree','20 Oct','Female','9658741235','sreelakshmipriya24@gmail.com','Mumbai');

Query OK, 1 row affected (0.01 sec)
```

Screen Shots:



```
Microsoft Windows [Version 10.0.22621.2215]
(c) Microsoft Corporation. All rights reserved.

C:\Users\vaish>mysql -u root -p
Enter password: *****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 12
Server version: 8.0.34 MySQL Community Server - GPL

Copyright (c) 2000, 2023, Oracle and/or its affiliates.

Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.

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

mysql> use assignment_db;
Database changed
mysql> create table bio_data (id int,Name varchar(255),DOB varchar(255),Gender varchar(255),Mobile varchar(255),Email varchar(255),City varchar(255));
Query OK, 0 rows affected (0.02 sec)

mysql> insert into bio_data(id,Name,DOB,Gender,Mobile,Email,City) values (1,'Pradeep','15 Sep','Male','9568745631','pradeep12@gmail.com','Pune');
Query OK, 1 row affected (0.01 sec)

mysql> insert into bio_data(id,Name,DOB,Gender,Mobile,Email,City) values (2,'Kumar','18 Apr','Male','8756984235','kumarganesan234@gmail.com','Andra Pradesh'
);
Query OK, 1 row affected (0.01 sec)

mysql> insert into bio_data(id,Name,DOB,Gender,Mobile,Email,City) values (3,'Sree','20 Oct','Female','9658741235','sreelakshmipriya24@gmail.com','Mumbai');
Query OK, 1 row affected (0.01 sec)
```

Created Database and Data:



```
1 ●  SELECT * FROM assignment_db.bio_data;
```

id	Name	DOB	Gender	Mobile	Email	City
1	Pradeep	15 Sep	Mal	568745631	pradeep12@gmail.com	Pune
2	Kumar	18 Apr	Male	8756984235	kumarganesan234@gmail.com	Andra Pradesh
3	Sree	20 Oct	Female	9658741235	sreelakshmipriya24@gmail.com	Mumbai

Automatic context help is disabled. Use the toolbar t manually get help for the current caret position or t toggle automatic help.

Table: bio_data

Columns:

```
id       int
Name     varchar(255)
DOB      varchar(255)
Gender   varchar(255)
Mobile   varchar(255)
Email    varchar(255)
City     varchar(255)
```

```
#  Time      Action                                               Message                                        Duration / Fetch
1  15:56:06  SELECT * FROM new_db.python_students LIMIT 0, 1000   Error Code: 1049. Unknown database 'new_db'    0.000 sec
2  15:56:16  SELECT * FROM new_db.python_students LIMIT 0, 1000   Error Code: 1049. Unknown database 'new_db'    0.000 sec
3  15:56:23  SELECT * FROM assignment_db.bio_data LIMIT 0, 1000   1 row(s) returned                              0.000 sec / 0.000 sec
4  15:59:50  SELECT * FROM assignment_db.bio_data LIMIT 0, 1000   3 row(s) returned                              0.000 sec / 0.000 sec
```