Connecting the database

```
import mysql.connector # Connect to the MySQL server conn =
mysql.connector.connect(host='localhost', user='root',
password='shuvo634', database='shuvodb') mycursor =
conn.cursor()
```

Table No-1 (Student Table)

```
Insert_1 = '''
INSERT INTO Student(StudentID,Name,Email,Phone,Address)
VALUES (1,"John Doe", "john.doe@example.com", "123-456-7890", "123 Main St"), (2,
"Jane Smith", "jane.smith@example.com", "987-654-3210", "456 Elm St"),
(3, "Robert Johnson", "robert.j@example.com", "555-123-4567", "789 Oak Ave"),
(4, "Emily White", "emily.white@example.com", "111-222-3333", "567 Pine St"),
(5, "Michael Lee", "michael.lee@example.com", "333-444-5555", "789 Cedar Dr"),
(6, "Sarah Brown", "sarah.brown@example.com", "555-666-7777", "890 Willow Ln"),
(7, "David Clark", "david clark@example.com", "777-888-9999", "123 Birch Ave"),
(8, "Melissa Turner", "melissa.turner@example.com", "888-999-0000", "456 Redwood Rd");
'''
```

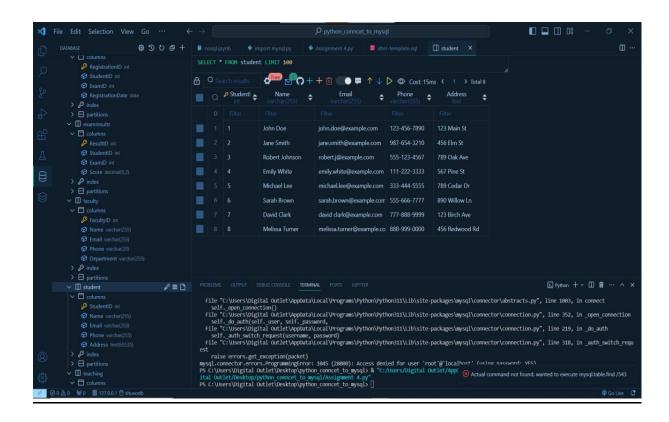


Table No-2 (Course Table)

```
Insert_2 = '''
INSERT INTO Course (CourseID, CourseName, Credits)
VALUES (101, "Mathematics" ,3),
  (102, "History", 4),
  (103, "Computer science",3),
  (104, "Literature",3),
  (105, "Chemistry", 4),
  (106, "Physics", 4),
  (107, "Economics",3),
  (108, "Biology", 4);
'''
```

Data insertion in the Table No: 03 (Exam Table)

```
Insert_3 = '''
INSERT INTO Exam(ExamID, ExamDate, ExamTime, Location)
VALUES (201, "2023-11-10", "09:00:00", "Exam Hall A"),
(202, "2023-11-12", "14:00:00", "Exam Hall B"),
(203, "2023-11-15", "10:30:00", "Exam Hall C"),
(204, "2023-11-18", "15:15:00", "Exam Hall D"),
(205, "2023-11-20", "13:00:00", "Exam Hall E"); '''
```

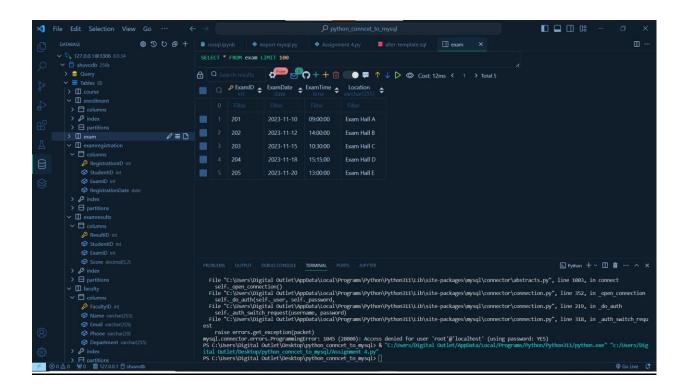
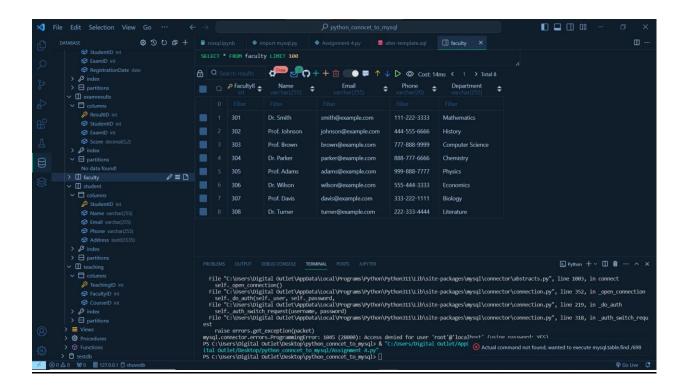


Table No-4 (Faculty Table)

```
Insert_4 = '''
INSERT INTO Faculty(FacultyID, Name, Email, Phone, Department)
VALUES (301, "Dr. Smith", "smith@example.com", "111-222-3333", "Mathematics"),
(302, "Prof. Johnson" ,"johnson@example.com", "444-555-6666", "History"),
(303, "Prof. Brown", "brown@example.com", "777-888-9999", "Computer Science"),
(304, "Dr. Parker", "parker@example.com", "888-777-6666", "Chemistry"), (305,
"Prof. Adams", "adams@example.com", "999-888-7777", "Physics"),
(306, "Dr. Wilson", "wilson@example.com", "555-444-3333", "Economics"),
(307, "Prof. Davis", "davis@example.com", "333-222-1111", "Biology"),
(308, "Dr. Turner", "turner@example.com", "222-333-4444", "Literature"); '''
```



<u>Table No-5 (Enrollment Table)</u>

```
Insert_5 = '''
INSERT INTO Enrollment (EnrollmentID, StudentID, CourseID, EnrollmentDate)
VALUES (1, 1, 101, "2023-09-01"),
   (2, 1, 102, "2023-09-10"),
   (3, 2, 101, "2023-09-02"),
   (4, 3, 103, "2023-09-03"),
   (5, 4, 104, "2023-09-04"),
   (6, 5, 105, "2023-09-05"),
   (7, 6, 106, "2023-09-06"),
   (8, 7, 107, "2023-09-07"),
   (9, 8, 108, "2023-09-08");
'''
```

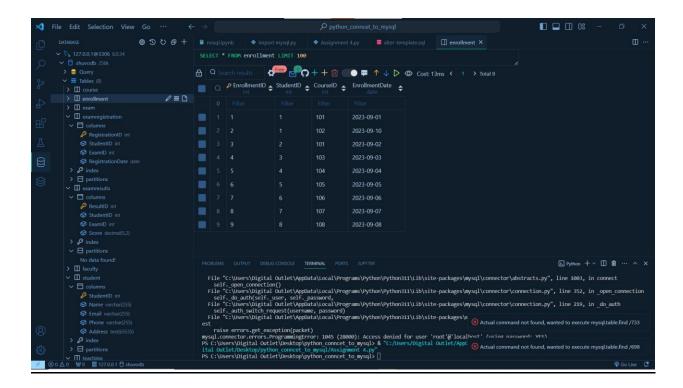


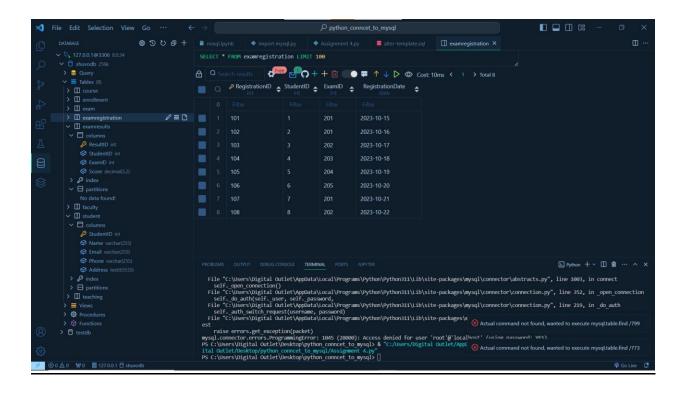
Table No-6 (Teaching Table)

```
Insert_6 = """
INSERT INTO Teaching (TeachingID, FacultyID, CourseID)
VALUES (1, 301, 101),
(2, 302, 102),
(3, 303, 103),
(4, 304, 104),
(5, 305, 105),
(6, 306, 106),
(7, 307, 107),
(8, 308, 108);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PegistrationID int
PegistrationID int
StudentID int
ExamID int
RegistrationDate date
Pindex
Empartitions
                                                                                                                            File "C:\Users\Digital Outlet\AppOuta\local\Programs\Python\Python\Python\Bil\Lib\site-packages\mysql\connector\abstracts.py", line 1803, in connect self-_open_cornection()
File "C:\Users\Digital Outlet\AppOuta\local\Programs\Python\Python\Bil\Lib\site-packages\mysql\connector\connection.pp", line 352, in _open_connection self-_open_connection.ps = 1.52, in _open_connection.ps = 1.52, in _open_co
                              > fl testdb
```

Screenshot

Table No-7 (ExamRegistration Table)

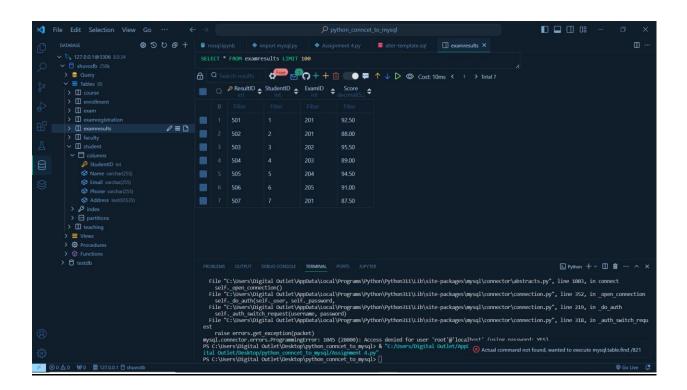
```
Insert_7 = '''
INSERT INTO ExamRegistration (RegistrationID, StudentID, ExamID,
RegistrationDate)
VALUES (101, 1, 201, "2023-10-15"),
(102, 2, 201, "2023-10-16"),
(103, 3, 202, "2023-10-17"),
(104, 4, 203, "2023-10-18"),
(105, 5, 204, "2023-10-19"),
(106, 6, 205, "2023-10-20"),
(107, 7, 201, "2023-10-21"),
(108, 8, 202, "2023-10-22"); '''
```



Screenshot

Table No-8 (ExamResults Table)

```
Insert_8 = """
INSERT INTO ExamResults (ResultID, StudentID, ExamID, score)
VALUES (501, 1, 201, 92.5),
(502, 2, 201, 88.0),
(503, 3, 202, 95.5),
(504, 4, 203, 89.0),
(505, 5, 204, 94.5),
(506, 6, 205, 91.0),
(507, 7, 201, 87.5);
"""
```



Screenshot

Executing the Table

```
# Execute the SQL query
mycursor.execute(Insert_1)
mycursor.execute(Insert_2)
mycursor.execute(Insert_3)
mycursor.execute(Insert_4)
mycursor.execute(Insert_5)
mycursor.execute(Insert_6)
mycursor.execute(Insert_7)
mycursor.execute(Insert_8) #
Commit the changes
conn.commit()
# Close the connection
conn.close()
```

MvSQL Full Code

```
import mysql.connector # Connect to the MySQL server conn =
mysql.connector.connect(host='localhost', user='root',
password='shuvo634', database='shuvodb') mycursor =
conn.cursor()
# Define the SQL query to create the table
Insert 1 = '''
INSERT INTO Student(StudentID, Name, Email, Phone, Address)
VALUES (1, "John Doe", "john.doe@example.com", "123-456-7890", "123 Main St"), (2,
"Jane Smith", "jane.smith@example.com", "987-654-3210", "456 Elm St"),
(3, "Robert Johnson", "robert.j@example.com", "555-123-4567", "789 Oak Ave"),
(4, "Emily White", "emily.white@example.com", "111-222-3333", "567 Pine St"),
(5, "Michael Lee", "michael.lee@example.com", "333-444-5555", "789 Cedar Dr"),
(6, "Sarah Brown", "sarah.brown@example.com", "555-666-7777", "890 Willow Ln"),
(7, "David Clark", "david clark@example.com", "777-888-9999", "123 Birch Ave"),
(8, "Melissa Turner", "melissa.turner@example.com", "888-999-0000", "456 Redwood
Rd");
Insert 2 = '''
INSERT INTO Course (CourseID, CourseName, Credits)
VALUES (101, "Mathematics", 3),
(102, "History", 4),
(103, "Computer science",3),
(104, "Literature", 3),
(105, "Chemistry", 4),
(106, "Physics", 4),
(107, "Economics", 3),
(108, "Biology", 4);
Insert 3 = '''
INSERT INTO Exam(ExamID, ExamDate, ExamTime, Location)
VALUES (201, "2023-11-10", "09:00:00", "Exam Hall A"),
(202, "2023-11-12", "14:00:00", "Exam Hall B"),
(203, "2023-11-15", "10:30:00", "Exam Hall C"),
(204, "2023-11-18", "15:15:00", "Exam Hall D"),
(205, "2023-11-20", "13:00:00", "Exam Hall E");
1.1.1
Insert_4 = '''
```

```
INSERT INTO Faculty(FacultyID, Name, Email, Phone, Department)
VALUES (301, "Dr. Smith", "smith@example.com", "111-222-3333", "Mathematics"),
(302, "Prof. Johnson" ,"johnson@example.com", "444-555-6666", "History"),
```

```
(502, 2, 201, 88.0),
(503, 3, 202, 95.5),
(504, 4, 203, 89.0),
(505, 5, 204, 94.5),
(506, 6, 205, 91.0),
(507, 7, 201, 87.5);
# Execute the SQL query
mycursor.execute(Insert_1)
mycursor.execute(Insert_2)
mycursor.execute(Insert 3)
mycursor.execute(Insert_4)
mycursor.execute(Insert_5)
mycursor.execute(Insert_6)
mycursor.execute(Insert_7)
mycursor.execute(Insert_8) #
conn.commit()
# Close the connection
conn.close()
insert_σ =
INSERT INTO Teaching (TeachingID, FacultyID, CourseID)
VALUES (1, 301, 101),
(2, 302, 102),
(3, 303, 103),
(4, 304, 104),
(5, 305, 105),
(6, 306, 106),
(7, 307, 107),
(8, 308, 108);
0.00
Insert_7 = '''
INSERT INTO ExamRegistration (RegistrationID, StudentID, ExamID,
RegistrationDate)
VALUES (101, 1, 201, "2023-10-15"),
(102, 2, 201, "2023-10-16"),
(103, 3, 202, "2023-10-17"),
(104, 4, 203, "2023-10-18"),
(105, 5, 204, "2023-10-19"),
(106, 6, 205, "2023-10-20"),
(107, 7, 201, "2023-10-21"),
(108, 8, 202, "2023-10-22");
Insert_8 = """
INSERT INTO ExamResults (ResultID, StudentID, ExamID, score)
VALUES (501, 1, 201, 92.5),
```

