

# Untitled1

November 30, 2024

```
[1]: !pip install mysql-connector-python
!apt-get -y install mysql-server
!service mysql start
import mysql.connector
db_conn=mysql.connector.connect(host="localhost", user="root",
    ↪password="superman999")
cursor=db_conn.cursor()
cursor.execute("SHOW DATABASES")
output=cursor.fetchall()
print(output)
```

Requirement already satisfied: mysql-connector-python in  
./opt/anaconda3/lib/python3.9/site-packages (9.1.0)

[notice] A new release of pip is  
available: 24.1 -> 24.3.1

[notice] To update, run:

```
pip install --upgrade pip
```

```
zsh:1: command not found: apt-get
```

```
zsh:1: command not found: service
```

```
[('h',), ('Hospital',), ('information_schema',), ('mysql',),
('performance_schema',), ('sakila',), ('Sample',), ('sys',), ('Teachers',),
('test_database',), ('uni',), ('university',)]
```

```
[5]: cursor.execute("SHOW DATABASES LIKE \'Hospitals\'")
output=cursor.fetchall()
print('output:', output, '--', type(output))
if len(output)== 0: ## university db does not exists
    cursor.execute("CREATE DATABASE Hospitals")
```

output: [('Hospitals',)] -- <class 'list'>

```
[22]: cursor.execute("USE Hospitals")

## Create the department table
cursor.execute(''
CREATE TABLE IF NOT EXISTS Departments (
    Dept_ID VARCHAR(50) PRIMARY KEY,
```

```

        NAME VARCHAR(100) NOT NULL,
        FLOOR INT NOT NULL
    );
'''

# Create the class table
cursor.execute('''
CREATE TABLE Employees (
    EID INT PRIMARY KEY,
    Name VARCHAR(255),
    Set VARCHAR(50),
    EmpType VARCHAR(50),
    Phone VARCHAR(15),
    Dept_ID INT,
    Password VARCHAR(255),
    FOREIGN KEY (Dept_ID) REFERENCES Departments(Dept_ID)
);
''')

cursor.execute('''
CREATE TABLE Patients (
    PID INT PRIMARY KEY,
    Name VARCHAR(25),
    DayOfBirth DATE,
    Sex ENUM('Male', 'Female')
    Password VARCHAR(255) --maybe not accessed by other users?
);
''')

cursor.execute('''
CREATE TABLE Appointments (
    Apt_ID INT PRIMARY KEY,
    Start DATE,
    End DATE,
    Type VARCHAR(50),
    PID INT,
    EID INT,
    FOREIGN KEY (PID) REFERENCES Patients(PID),
    FOREIGN KEY (EID) REFERENCES Employees(EID)
);
''')

cursor.execute('''
CREATE TABLE Services (
    Service_ID INT PRIMARY KEY,
    Service_Name VARCHAR(255), -- but need to have several selections

```

```

        Cost DECIMAL(10,2)
    );
'''

cursor.execute('''
CREATE TABLE Service_Appointment (
    Service_ID INT,
    Apt_ID INT,
    PRIMARY KEY (Service_ID, Apt_ID),
    FOREIGN KEY (Service_ID) REFERENCES Services(Service_ID),
    FOREIGN KEY (Apt_ID) REFERENCES Appointments(Apt_ID)
);
''')

cursor.execute('''
CREATE TABLE Beds (
    Bed_ID INT PRIMARY KEY,
    Room_ID INT,
    Floor INT
);
''')

cursor.execute('''
CREATE TABLE Patient_Stay (
    Bed_ID INT,
    Bill_ID INT PRIMARY KEY,
    PID INT,
    CheckIn DATE,
    CheckOut DATE,
    FOREIGN KEY (Bed_ID) REFERENCES Beds(Bed_ID),
    FOREIGN KEY (PID) REFERENCES Patients(PID)
);
''')

cursor.execute('''
CREATE TABLE Billing (
    Bill_ID INT PRIMARY KEY,
    Date_Issued DATE,
    Total_Amt DECIMAL(10,2),
    Payment_Status VARCHAR(50),
    Bed_ID INT,
    PID INT,
    PRIMARY KEY (Bed_ID, PID,Bill_ID),
);
''')

cursor.execute('''

```

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CREATE TABLE Med_Rec (
    Med_Rec INT PRIMARY KEY,
    Diagnosis VARCHAR(250),
    Treatments VARCHAR(250),
    Ailment VARCHAR(50),
    Allergy VARCHAR(50),
    medicine VARCHAR(50),
);
'''

cursor.execute('''
CREATE TABLE Patient_Rec (
    Rec_ID INT,
    PID INT
    PRIMARY KEY (Rec_ID, PID),
);
'''

print("Tables created successfully.")

```

```

-----
MySQLInterfaceError                                Traceback (most recent call last)
~/opt/anaconda3/lib/python3.9/site-packages/mysql/connector/connection_cext.py
    in cmd_query(self, query, raw, buffered, raw_as_string)
        705             query = query.encode("utf-8")
--> 706             self._cmysql.query(
        707                 query,

```

```

MySQLInterfaceError: 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 'Se
    VARCHAR(50),
    EmpType VARCHAR(50),
    Phone VARCHAR(15),
    Dept_ID INT' at line 4

```

The above exception was the direct cause of the following exception:

```

ProgrammingError                                Traceback (most recent call last)
/var/folders/s/_x_6hpw912b53qjbyz658z9pr0000gn/T/ipykernel_86667/304858196.py i
    in <module>
        11
        12 # Create the class table
--> 13 cursor.execute('''
        14 CREATE TABLE Employees (

```

```

15      EID INT PRIMARY KEY,

~/opt/anaconda3/lib/python3.9/site-packages/mysql/connector/cursor_cext.py in
↳execute(self, operation, params, multi)
    355
    356         try:
--> 357             result = self._connection.cmd_query(

    358                 stmt,
    359                 raw=self._raw,

~/opt/anaconda3/lib/python3.9/site-packages/mysql/connector/opentelemetry/
↳context_propagation.py in wrapper(cnx, *args, **kwargs)
    95         # pylint: disable=possibly-used-before-assignment
    96         if not OTEL_ENABLED or not cnx.otel_context_propagation:
---> 97             return method(cnx, *args, **kwargs)
    98
    99         current_span = trace.get_current_span()

~/opt/anaconda3/lib/python3.9/site-packages/mysql/connector/connection_cext.py
↳in cmd_query(self, query, raw, buffered, raw_as_string)
    712         )
    713         except MySQLInterfaceError as err:
--> 714             raise get_mysql_exception(

    715                 err.errno, msg=err.msg, sqlstate=err.sqlstate
    716             ) from err

ProgrammingError: 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 'Set VARCHAR(50),
    EmpType VARCHAR(50),
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[19]: cursor.execute("USE Hospitals")

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    ↪ in <module>
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[ ]: