Open Oracle VM VirtualBox Manager

in top click on ➡ right arrow for START

Then open Terminal for pi@raspberry.

Write below Codes in terminal :

sample.sql // 13-7-24 (1)

Step 1 : to go in our folder
cd our folder name

Step 2 : to create a file
nano sample.sql

Step 3 : write below code in this file

```
import sqlite3

connection = sqlite3.connect("mytb.db")

crsr = connection.cursor()

sql_command = """ CREATE TABLE IF NOT EXISTS emp(staff_number INTEGER PRIMARY KEY, fname VARCHAR(20),lname VARCHAR(20),gender CHAR(1),joining DATE);"""

crsr.execute(sql_command)

print("table created")
name1 = input()
name2 = input()
name3 = input()
name4 = "2020-10-23
X=24

crsr execute("INSERT INTO emp (staff number, fname, lname, gender, joining) VALUES(?,?,?,?,?)",(x, name1, name2, name3, name4))

connection.commit()

connection.close()
```

Step:4 to run this file
python3 sample.sql

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printsql.sql // 13-7-24 (2)

Step 1 : go in our folder
cd iot-31

Step 2 : to create file
nano printsql.sql

Step 3 : write code

```
Import sqlite3

//Connect with table database
connection = sqlite3.connect("mytable.db")

//curser object
crsr = con.cursor()

//execute the cmd to fetch all the data from the table emp
crsr.execute("SELECT FROM emp")

ans = crsr.fetchall()

print(ans)

crsr.close()

connection.close()
```

Step 4 : Run File
python3 filename

// 31-7-24 (1)

Step 1 : to go in our folder
cd our folder name

Step 2 : to create a file
nano sample.sql

Step 3 : write below code in this file

```
import paho.mqtt.client as mqtt

// #broker_url = "mqtt.eclipse.org"
broker_url= "broker.emqx.io"
broker port = 1883

client = mqtt.Client()
client.connect(broker_url, broker_port)

client.publish(topic="test1", payload="India", qos=0, retain=False)

client.subscribe("TestingTopic", qos=0)
```

Step 4 : run file
python3 file name