

Cyber Forensics & Laws - Mini Project

AIM: Write a program to take backup of MySQL database.

Backup of MySQL Database using Python.

CODE:

Table.py

This code creates 'mydatabase.db' which contains salesman table with all details

```
import sqlite3

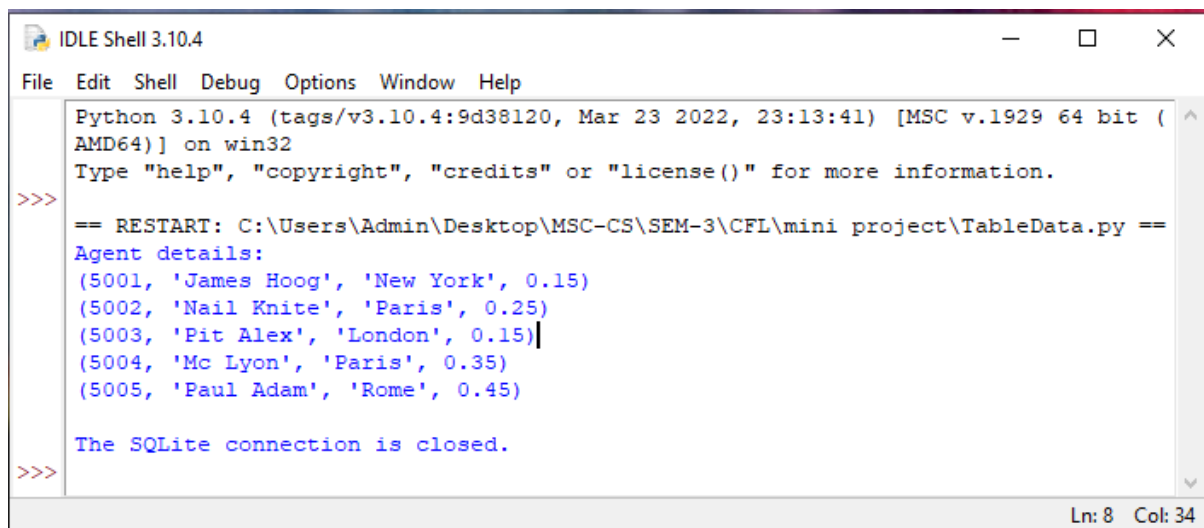
from sqlite3 import Error

def sql_connection():
    try:
        conn = sqlite3.connect('mydatabase.db')
        return conn
    except Error:
        print(Error)

def sql_table(conn):
    cursorObj = conn.cursor()
    # Create the table
    cursorObj.execute("CREATE TABLE salesman(salesman_id n(5), name char(30), city char(35), commission decimal(7,2));")
    # Insert records
    cursorObj.executescript("""
INSERT INTO salesman VALUES(5001,'James Hoog', 'New York', 0.15);
INSERT INTO salesman VALUES(5002,'Nail Knite', 'Paris', 0.25);
INSERT INTO salesman VALUES(5003,'Pit Alex', 'London', 0.15);
INSERT INTO salesman VALUES(5004,'Mc Lyon', 'Paris', 0.35);
INSERT INTO salesman VALUES(5005,'Paul Adam', 'Rome', 0.45);
""")
    conn.commit()
    cursorObj.execute("SELECT * FROM salesman")
    rows = cursorObj.fetchall()
    print("Agent details:")
```

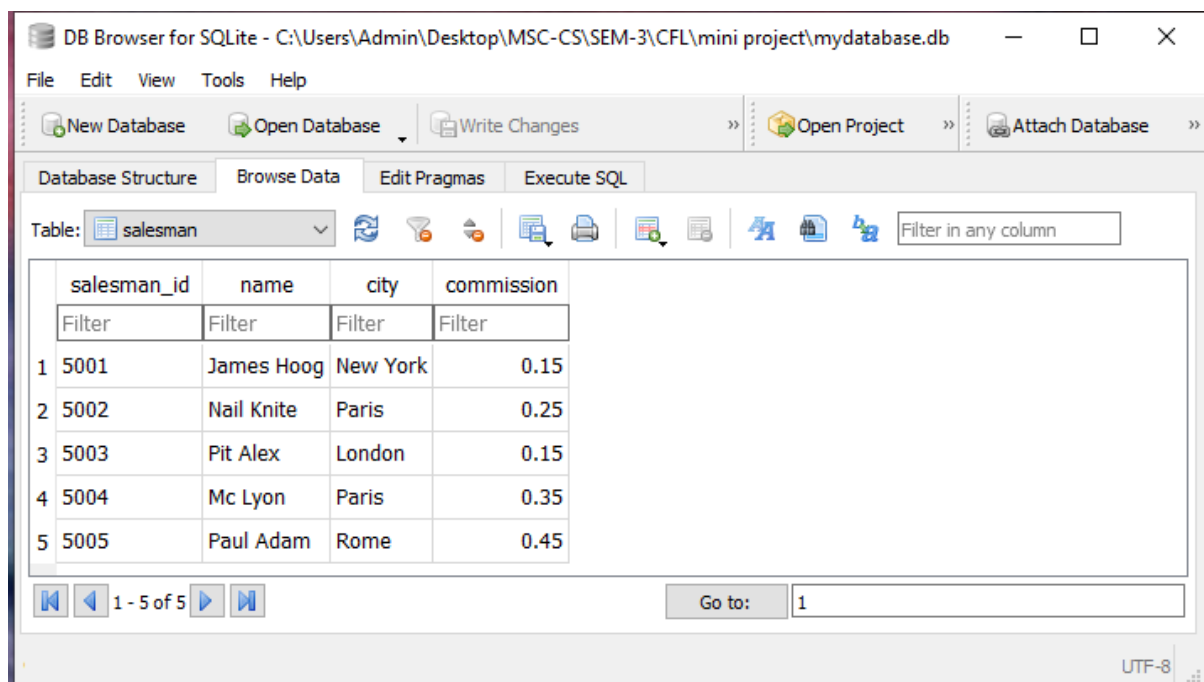
```
for row in rows:
    print(row)
sqlite_conn = sql_connection()
sql_table(sqlite_conn)
if (sqlite_conn):
    sqlite_conn.close()
print("\nThe SQLite connection is closed.")
```

OUTPUT:



```
Python 3.10.4 (tags/v3.10.4:9d38120, Mar 23 2022, 23:13:41) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
== RESTART: C:\Users\Admin\Desktop\MSC-CS\SEM-3\CFL\mini project\TableData.py ==
Agent details:
(5001, 'James Hoog', 'New York', 0.15)
(5002, 'Nail Knite', 'Paris', 0.25)
(5003, 'Pit Alex', 'London', 0.15)
(5004, 'Mc Lyon', 'Paris', 0.35)
(5005, 'Paul Adam', 'Rome', 0.45)

The SQLite connection is closed.
>>>
```



DB Browser for SQLite - C:\Users\Admin\Desktop\MSC-CS\SEM-3\CFL\mini project\mydatabase.db

File Edit View Tools Help

New Database Open Database Write Changes Open Project Attach Database

Database Structure Browse Data Edit Pragmas Execute SQL

Table: salesman

	salesman_id	name	city	commission
	Filter	Filter	Filter	Filter
1	5001	James Hoog	New York	0.15
2	5002	Nail Knite	Paris	0.25
3	5003	Pit Alex	London	0.15
4	5004	Mc Lyon	Paris	0.35
5	5005	Paul Adam	Rome	0.45

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UTF-8

Backup.py

This code generates the backup for the table whose details are mentioned.

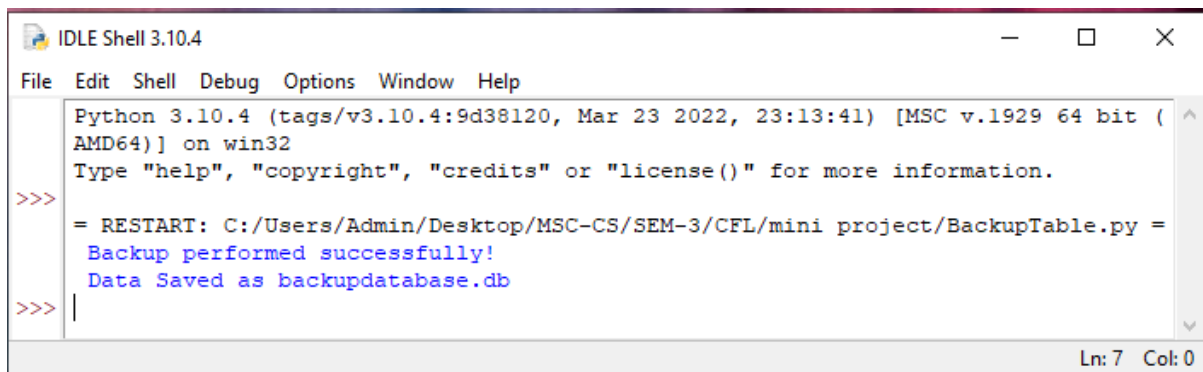
```
import sqlite3
import io
conn = sqlite3.connect('mydatabase.db')
c = conn.cursor()

def backupdb():
    b_conn=sqlite3.connect('backupdatabase.db')
    conn.backup(b_conn)
    b_conn.close()

backupdb()
c.close()

print(' Backup performed successfully!')
print(' Data Saved as backupdatabase.db')

conn.close()
```

OUTPUT:

```
IDLE Shell 3.10.4
File Edit Shell Debug Options Window Help
Python 3.10.4 (tags/v3.10.4:9d38120, Mar 23 2022, 23:13:41) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:/Users/Admin/Desktop/MS-SEM-3/CFL/mini project/BackupTable.py =
Backup performed successfully!
Data Saved as backupdatabase.db
>>> |
```

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DB Browser for SQLite - C:\Users\Admin\Desktop\MSC-CS\SEM-3\CFL\mini project\backupdatabase.db

File Edit View Tools Help

New Database Open Database Write Changes Revert Changes Open Project Attach Database

Database Structure Browse Data Edit Pragma Execute SQL

Table: salesman

	salesman_id	name	city	commission
	Filter	Filter	Filter	Filter
1	5001	James Hoog	New York	0.15
2	5002	Nail Knite	Paris	0.25
3	5003	Pit Alex	London	0.15
4	5004	Mc Lyon	Paris	0.35
5	5005	Paul Adam	Rome	0.45

1 - 5 of 5 Go to: 1

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