

Cyber Forensic and Laws: Mini Project

- Write a program to take backup of mysql database.

Here we have already created a database name Amazon and a table in it name amazon_order.

a. Showing list of data database

```
mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| Amazon      |
| Itech       |
| db          |
| mysql       |
| performance_schema |
| sys        |
+-----+
7 rows in set (0.00 sec)
```

b. Using Amazon database.

```
mysql> use Amazon;
Database changed
```

c. Displaying the table values.

```
mysql> select * from amazon_order;
+-----+-----+-----+-----+-----+
| Product_id | Product_name | Customer_name | Price | Order_Date |
+-----+-----+-----+-----+-----+
| 121 | Samsun S22 | Zack | 60000 | 2022-09-19 |
| 122 | Rolex Watch | Harvey | 100000 | 2022-09-22 |
| 123 | Cat Food | Louis | 2000 | 2022-09-21 |
| 124 | Zara dress | Donna | 20000 | 2022-09-25 |
| 125 | Books | Mick | 2500 | 2022-09-28 |
+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

Python code that take's backup of database.

```
import mysql.connector as msql

def creat_backup():
    db = input('Enter in database name:- ')
    connection = msql.connect(host='localhost', user='user',
                              password='P@ssW0rd', database=db)
    cur = connection.cursor()
    cur.execute('SHOW TABLES;')
    table_names = []
    for record in cur.fetchall():
        table_names.append(record[0])
    # print(table_names)

    backup_dbname = db + '_backup'
    try:
        cur.execute(f'CREATE DATABASE {backup_dbname}')
    except:
        pass

    cur.execute(f'USE {backup_dbname}')

    for table_name in table_names:
        cur.execute(
            f'CREATE TABLE {table_name} SELECT * FROM {db}.{table_name}')

    print(f'Back for {db} created as {backup_dbname}')

creat_backup()
```

Output :

```
(base)
suraj at suraj-linux in 2. Cyber Forensic and Laws on master [?]
$ python3.6 database_backup.py
Enter in database name:- Amazon
Back for Amazon created as Amazon_backup
(base)
suraj at suraj-linux in 2. Cyber Forensic and Laws on master [?]
$
```

- a. Backup of Amazon database is created as Amazon_backup.

```
mysql> SHOW DATABASES;
+-----+
| Database |
+-----+
| information_schema |
| Amazon          |
| Amazon_backup    |
| Itech           |
| db              |
| mysql          |
| performance_schema |
| sys            |
+-----+
8 rows in set (0.00 sec)
```

```
mysql> USE Amazon_backup;  
Reading table information for completion of table and column names  
You can turn off this feature to get a quicker startup with -A
```

Database changed

```
mysql> SHOW TABLES;
```

```
+-----+  
| Tables_in_Amazon_backup |  
+-----+  
| amazon_order             |  
+-----+  
1 row in set (0.00 sec)
```

```
mysql> SELECT * FROM amazon_order;
```

```
+-----+-----+-----+-----+-----+  
| Product_id | Product_name | Customer_name | Price | Order_Date |  
+-----+-----+-----+-----+-----+  
|          121 | Samsun S22   | Zack          | 60000 | 2022-09-19 |  
|          122 | Rolex Watch  | Harvey        | 100000 | 2022-09-22 |  
|          123 | Cat Food     | Louis         | 2000  | 2022-09-21 |  
|          124 | Zara dress   | Donna         | 20000 | 2022-09-25 |  
|          125 | Books        | Mick          | 2500  | 2022-09-28 |  
+-----+-----+-----+-----+-----+  
5 rows in set (0.00 sec)
```

```
mysql> 
```