Steps:

Creating Database my_db which we will be taking backup of.

Showing the list of existing db.

```
mysql> create database my_db;
Query OK, 1 row affected (0.15 sec)

mysql> show databases;
+--------------------+
| Database           |
+--------------------+
| clinicalsdb        |
| employeedb         |
| information_schema |
| my_db              |
| mysql              |
| passengerdb        |
| performance_schema |
| projectdb          |
| sakila             |
| studentdb          |
| sys                |
| world              |
+--------------------+
12 rows in set (0.00 sec)
```

Switching to the new created database, and creating few tables such as **people** and with record.

```
mysql> use my_db;
Database changed
mysql> CREATE TABLE People(
    ->      id int NOT NULL AUTO_INCREMENT,
    ->      name varchar(45) NOT NULL,
    ->      occupation varchar(35) NOT NULL,
    ->      age int,
    ->      PRIMARY KEY (id)
    -> );
Query OK, 0 rows affected (0.52 sec)
```

```
mysql> INSERT INTO People (id, name, occupation, age)
    -> VALUES (101, 'Peter', 'Engineer', 32);
Query OK, 1 row affected (0.35 sec)

mysql> INSERT INTO People VALUES
    -> (102, 'Joseph', 'Developer', 30),
    -> (103, 'Mike', 'Leader', 28),
    -> (104, 'Stephen', 'Scientist', 45);
Query OK, 3 rows affected (0.07 sec)
Records: 3  Duplicates: 0  Warnings: 0

mysql> select * from People;
+-----+---------+------------+------+
| id  | name    | occupation | age  |
+-----+---------+------------+------+
| 101 | Peter   | Engineer   |  32  |
| 102 | Joseph  | Developer  |  30  |
| 103 | Mike    | Leader     |  28  |
| 104 | Stephen | Scientist  |  45  |
+-----+---------+------------+------+
4 rows in set (0.02 sec)
```

In the same database shwetha_db we are creating second table as **books** and inserting values in the table.

```
mysql> create table books(
    -> book_id int not null auto_increment,
    -> author_name varchar (255),
    -> book_name varchar(225),
    -> price int,
    -> ratings float,
    -> primary key(book_id));
Query OK, 0 rows affected (0.28 sec)
```

```
mysql> insert into books
    -> values(2,'Kylie Brant','The Dark Places',300, 4.7),
    -> (3, 'Alex','The Silent Patient',250,'4.2');
Query OK, 2 rows affected (0.04 sec)
Records: 2  Duplicates: 0  Warnings: 0

mysql> select * from books;
+---------+-------------+--------------------+-------+---------+
| book_id | author_name | book_name          | price | ratings |
+---------+-------------+--------------------+-------+---------+
|       1 | B.A.Paris   | The Therapist      |   255 |     4.5 |
|       2 | Kylie Brant | The Dark Places    |   300 |     4.7 |
|       3 | Alex        | The Silent Patient |   250 |     4.2 |
+---------+-------------+--------------------+-------+---------+
3 rows in set (0.00 sec)
```

These are the current tables in my_db database.

```
mysql> show tables;
+----------------+
| Tables_in_my_db |
+----------------+
| books          |
| people         |
+----------------+
2 rows in set (0.01 sec)
```

Now we will be executing below python code.

CODE:

import mysql.connector as m

 # database which you want to backup

db = 'my_db'

print('Connecting database...')

connection = m.connect(host='localhost', user='root',password='root', database=db)

cursor = connection.cursor()

print('Database connected')

 # Getting all the table names

cursor.execute('SHOW TABLES;')

tables = cursor.fetchall()

table_names = []

for record in tables:

        table_names.append(record[0])

backup_dbname = db + '_backup'

print('Creating backup databse named as', backup_dbname)

cursor.execute(f'CREATE DATABASE {backup_dbname}')

cursor.execute(f' SELECT DATABASE();')

print('current databse:',cursor.fetchall())

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

cursor.execute(f' SELECT DATABASE();')

print('Switched to',cursor.fetchall())

for table_name in table_names:

        *cursor.execute(f'CREATE TABLE {table_name} SELECT * FROM {db}.{table_name}')*

Output:

```
Connecting database...
Database connected
Creating backup databse named as my_db_backup
current databse: [('my_db',)]
Switched to [('my_db_backup',)]
|
```

Once our code is executed it will create new database my_db_backup database, as shown below we can see my_db_backup database created.

```
mysql> show databases;
+--------------------+
| Database           |
+--------------------+
| clinicalsdb        |
| employeedb         |
| information_schema |
| my_db              |
| my_db_backup       |
| mysql              |
| passengerdb        |
| performance_schema |
| projectdb          |
| sakila             |
| studentdb          |
| sys                |
| world              |
+--------------------+
13 rows in set (0.00 sec)
```

```
mysql> use my_db_backup;
Database changed
mysql> select database();
+--------------+
| database()   |
+--------------+
| my_db_backup |
+--------------+
1 row in set (0.00 sec)
```

We can see that we have successfully created the backup for database *my_db* in *my_db_databse,* As all the tables from my_db database can be also found in my_db_backup, with every record.

```
mysql> show tables;
+------------------------+
| Tables_in_my_db_backup |
+------------------------+
| books                  |
| people                 |
+------------------------+
2 rows in set (0.00 sec)
```

```
mysql> select * from people;
+-----+---------+-------------+------+
| id  | name    | occupation  | age  |
+-----+---------+-------------+------+
| 101 | Peter   | Engineer    |   32 |
| 102 | Joseph  | Developer   |   30 |
| 103 | Mike    | Leader      |   28 |
| 104 | Stephen | Scientist   |   45 |
+-----+---------+-------------+------+
4 rows in set (0.00 sec)
```

```
mysql> select * from books;
+---------+-------------+-------------------+-------+---------+
| book_id | author_name | book_name         | price | ratings |
+---------+-------------+-------------------+-------+---------+
|       1 | B.A.Paris   | The Therapist     |   255 |     4.5 |
|       2 | Kylie Brant | The Dark Places   |   300 |     4.7 |
|       3 | Alex        | The Silent Patient|   250 |     4.2 |
+---------+-------------+-------------------+-------+---------+
3 rows in set (0.00 sec)
```

Below are the values in authors and students table. So using python code we have a backup of our shwetha_db in our new database shwetha_db_backup.

```
mysql> select * from authors;
+------+-------+---------------+
| id   | name  | email         |
+------+-------+---------------+
|    1 | Vivek | xuz@abc.com   |
|    2 | Priya | p@gmail.com   |
|    3 | Tom   | tom@yahoo.com |
+------+-------+---------------+
3 rows in set (0.00 sec)

mysql> select * from students;
+--------+--------+------------------+
| rollno | name   | division         |
+--------+--------+------------------+
|      1 | Robin  | robin@yahoo.com  |
|      2 | Kevin  | kevin@yahoo.com  |
|      3 | Stormi | stormi@yahoo.com |
+--------+--------+------------------+
3 rows in set (0.00 sec)
```