

PROJECT 2: (ATM USER LOGIN AND ACCOUNT INFO DATABASE):

SQL FILE:

#To create a new Database:

```
mysql> create database atm_machine2;  
Query OK, 1 row affected (0.01 sec)
```

#To use the created Database:

```
mysql> use atm_machine2;  
Database changed
```

#To create a new table (login_data):

```
mysql> create table login_data('S.No' int, 'Card Number' varchar(255), 'Account Type' varchar (255), 'Account Number' varchar(255), Pin varchar(255), Name varchar(255), Email varchar(255), Mobile varchar(255));  
Query OK, 0 rows affected (0.04 sec)
```

#To create a new table (account_details):

```
mysql> create table account_details('S.No' int, 'Account Number' varchar(255), Pin varchar(255), Name varchar(255), 'Account Created On (Date & Time)' varchar(255), Balance varchar(255), 'Last Transaction' varchar(255));  
Query OK, 0 rows affected (0.02 sec)
```

#sql commands to insert data files a written in python file using a library module called mysql.connector with command 'pip install mysql-connector-python' and function called mysql.connector.connect()

Code:

1) Import mysql.connector:

```
import mysql.connector
covid_db=mysql.connector.connect(
    host="localhost",
    user="root",
    password="12345",
    database="atm_machine"
)
```

2) To view data:

```
def view_balance():
    print("")
    account_number=input("Enter the Account Number: ")
    sql_view_balance="SELECT Balance FROM account_details where `Account Number`
= %s"
    cursor.execute(sql_view_balance,(account_number,))
    for data in cursor.fetchall()[0]:
        print(f"your current balance is Rs.{data}")
    atm_machine.commit()
```

3) To insert data:

```
def insert_account_info():
    import datetime
    print("")
    s_no=random.randint(0,99)
    account_number=input("Enter account number: ")
    pin=int(input("Enter the 4 digit pin: "))
    name=input("Enter Name: ")
    date_time=datetime.datetime.now()
    balance=input("Enter the First Deposit: ")
    last_transaction=datetime.datetime.now()
    sql_account_info="insert into account_details (`S.No`,`Account
Number`,`Pin`,`Name`,`Account Created On (Date & Time)`,`Balance`,`Last Transaction`)
values (%s,%s,%s,%s,%s,%s,%s)"
    vals=(s_no,account_number,pin,name,date_time,balance,last_transaction)
    cursor.execute(sql_account_info,vals)
    atm_machine.commit()
    print("Account Info Inserted")
```

4) To verify login:

```
def credentials():

    debit_card_number = input("Enter your Debit card number: ")
    debit_card_pin = input("Enter your Pin: ")
    sql_login = "SELECT Pin FROM login_data WHERE `Card Number` = %s"

    try:
        cursor.execute(sql_login, (debit_card_number,))
        result = cursor.fetchone()

        if result is not None and result[0] == debit_card_pin:
            print("")
            print("Credentials verified")
            user_action()
        else:
            print("Invalid credentials!!")
            credentials()

    except mysql.connector.Error as err:
        print(f"Error: {err}")

    finally:
        cursor.close()
```

To Update Balance:

Screenshots:

Database atm_machine:

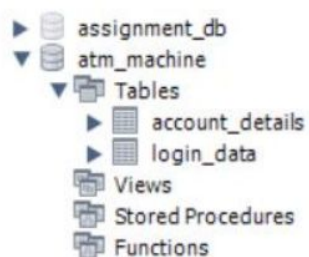


Table login_data:

	S.No	Card Number	Account Type	Account Number	Pin	Name	Email	Mobile
▶	77	6598743215466874	Savings	31159368594	4857	Suresh M	sureshatm@gmail.com	9865742315
	50	3026607361791329	Savings	996742763066	545	Rajesh	rajesh@gmail.com	6789654426
	88	6931986745665104	Savings	22798108434	9656	Sundar	sundar@gmail.com	9685325897
	47	9336508933220875	Savings	602454223711	5676	Sree	sree20@gmail.com	9685743215
	8	8046488000078172	Savings	751842218407	8081	Vignesh	vignesh@gmail.com	7896548789

Table account_details:

	S.No	Account Number	Pin	Name	Account Created On (Date & Time)	Balance	Last Transaction
▶	22	31159368594	4857	Suresh M	2023-09-12 22:31:41.691941	5460	2023-09-13 00:16:00.724812
	63	996742763066	545	Rajesh	2023-09-13 00:27:09.520026	17000	2023-09-13 00:27:14.377426
	67	22798108434	9656	Sundar	2023-09-13 00:31:30.755593	65000	2023-09-13 00:31:34.016396
	65	602454223711	5676	Sree	2023-09-13 00:33:30.675878	100056	2023-09-13 00:33:42.880212
	45	751842218407	8081	Vignesh	2023-09-13 00:35:20.871146	56000	2023-09-13 00:35:26.184659