

▼ Python Project

Creating a Python project for credit and debit transaction in a bank using Mysql.

Install the Mysql connector for Python

```
pip install mysql-connector-python
```

Create a python file and run the below code. If the code runs successfully then, the mysql connector is existing in our system.

```
import mysql.connector
```

Connect to Mysql server using Pthon.

```
import mysql.connector

mydb = mysql.connector.connect(
    host="localhost",
    user="root",
    password="123456789"
)
```

Creating a database.

```
import mysql.connector

mydb = mysql.connector.connect(
    host="localhost",
    user="root",
    password="123456789"
)

my_curser = mydb.cursor()
my_curser.execute("CREATE DATABASE kmvhss_project")
```

Display the available databases.

```
import mysql.connector
```

```

mydb = mysql.connector.connect(
    host="localhost",
    user="root",
    password="123456789"
)

my_curser = mydb.cursor()
my_curser.execute("SHOW DATABASES")
for i in my_curser:
    print(i)

    ('gvhss_project',)
    ('information_schema',)
    ('kmvhss_project',)
    ('mini_project',)
    ('mysql',)
    ('performance_schema',)
    ('project',)
    ('project_gvhss',)
    ('sakila',)
    ('sys',)
    ('world',)

```

Creating the Tables **user**, **credit** and **debit**.

```

# creating tables

import mysql.connector

mydb = mysql.connector.connect(
    host="localhost",
    user="root",
    password="123456789",
    database="kmvhss_project"
)

my_curser = mydb.cursor()
my_curser.execute("CREATE TABLE credit(ac_no varchar(50), amount dec(10,2))")
my_curser.execute("CREATE TABLE debit(ac_no varchar(50), amount dec(10,2))")
my_curser.execute("CREATE TABLE user(ac_no varchar(50) primary key, name varchar(50), ph_no i

print(my_curser.rowcount)

```

0

Inserting the values into **user** table.

```

#insert values into user table

```

```

import mysql.connector

mydb = mysql.connector.connect(
    host="localhost",
    user="root",
    password="123456789",
    database="kmvhss_project"
)

my_curser = mydb.cursor()

sql = "INSERT INTO user(ac_no, name,ph_no, balance) VALUES (%s, %s, %s, %s)"
val = [
    ('1001','Arjun', 999999999, 12000),
    ('1002', 'Nabeel', 999999999, 2000.00),
    ('1003', 'Layana', 877777777, 100.00),
    ('1004', 'Naseem', 666666666, 0.00)
]

my_curser.executemany(sql, val)
mydb.commit()

print(my_curser.rowcount)

```

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Creating the two functions credit and debit for transaction.

```

import mysql.connector

mydb = mysql.connector.connect(
    host="localhost",
    user="root",
    password="123456789",
    database="kmvhss_project"
)

my_curser = mydb.cursor()

def credit(ac_no, amount):
    # Check the account number is valid or not.
    my_curser.execute("SELECT * FROM user WHERE ac_no=%s", (ac_no,))
    my_curser.fetchall()

    if my_curser.rowcount == 0:
        print("Invalid Account Number")
        exit()

```

```

# If the account number is valid then credit the amount.
else:
    sql1 = "INSERT INTO credit(ac_no, amount) VALUES(%s, %s)"
    val = (ac_no, amount)
    my_curser.execute(sql1, val)
    mydb.commit()

    sql2 = "UPDATE user SET balance=balance+%s WHERE ac_no=%s"
    amnt = (amount, ac_no)
    my_curser.execute(sql2, amnt)
    mydb.commit()

    print("The amount ", amount, " is successfully deposited in account ", ac_no, "\n")

```

```

def debit(ac_no, amount):
    # Check the account number is valid or not.
    my_curser.execute("SELECT * FROM user WHERE ac_no=%s", (ac_no,))
    my_curser.fetchall()

    if my_curser.rowcount == 0:
        print("Invalid Account Number \n")
        exit()

    # If the account number is valid then debit the amount.
    else:
        sql1 = "INSERT INTO debit(ac_no, amount) VALUES(%s, %s)"
        val = (ac_no, amount)
        my_curser.execute(sql1, val)
        mydb.commit()

        sql2 = "UPDATE user SET balance=balance-%s WHERE ac_no=%s"
        amnt = (amount, ac_no)
        my_curser.execute(sql2, amnt)
        mydb.commit()
        print("The amount ", amount, " is successfully debited from account ", ac_no, "\n")

```

```

while True:
    print("Select the following options")
    print("1. Credit")
    print("2. Debit")
    print("3. Exit")
    option = int(input())
    if option == 1:
        ac_no = input("Enter your account number : ")
        amount = int(input("Enter the amount for Credit : "))
        credit(ac_no, amount)

    elif option == 2:
        ac_no = input("Enter your account number : ")
        amount = float(input("Enter the amount for deposit : "))

```

```
        debit(ac_no, amount)

elif option == 3:
    break

else:
    print("Invalid input \n")

print("Thank you")
```