# Project on “Banking System”

### DBMS: MySQL

**Host : localhost User: root**

**Pass: root DataBase: Bank**

**Table Structure: (i) account(Accno int(7),Name varchar(20),age int, occu varchar(15), Address varchar(30), Mob int(11),Aadharno int(16), amt double(20,5), AccType varchar(15)**

**(ii) amt(Accno int(7), Amtdeposited double(20,5), month varchar(10)**

**SQL Commands to create both the tables:**

## Account table:

mysql> CREATE TABLE ACCOUNT(Accno int(7) NOT NULL Primary Key, Name varchar(20) Not Null,Age int(5) Not Null,occu varchar(15) not null, Address varchar(30) not null, Mob int(11) not null, Aadharno int(16),amt double(20,5) , AccType varchar(15) not null);

## Amt table:

mysql> CREATE TABLE amt(Accno int(7), Amtdeposited double(20,5),month varchar(10) not null);

**Python Code:**

import os import platform

import mysql.connector import pandas as pd

mydb=mysql.connector.connect(host="localhost",\ user="root",\

password="root",\ database="Bank")

mycursor=mydb.cursor()

def AccInsert(): L=[]

Accno=int(input("Enter the Account number : ")) L.append(Accno)

name=input("Enter the Customer Name: ") L.append(name)

age=int(input("Enter Age of Customer : ")) L.append(age)

occup=input("Enter the Customer Occupation : ") L.append(occup)

Address=input("Enter the Address of the Customer : ") L.append(Address)

Mob=int(input("Enter the Mobile number : ")) L.append(Mob)

Aadharno=int(input("Enter the Aadhar number : ")) L.append(Aadharno)

Amt=float(input("Enter the Money Deposited : ")) L.append(Amt)

AccType=input("Enter the Account Type (Saving/RD/PPF/Current) : ") L.append(AccType)

cust=(L)

sql="Insert into ACCOUNT(Accno ,Name,Age,occu,Address,Mob,Aadharno,amt,AccType) values(%s,%s,%s, %s,%s,%s, %s,%s,%s)"

mycursor.execute(sql,cust) mydb.commit()

def AccView():

print("Select the search criteria : ")

print("1. Acc no")

print("2. Name")

print("3. Mobile")

print("4. Aadhaar")

print("5. View All")

ch=int(input("Enter the choice : "))

if ch==1:

s=int(input("Enter ACC no : "))

rl=(s,)

sql="select \* from account where Accno=%s"

mycursor.execute(sql,rl)

elif ch==2:

s=input("Enter Name : ")

rl=(s,)

sql="select \* from account where Name=%s"

mycursor.execute(sql,rl)

elif ch==3:

s=int(input("Enter Mobile No : "))

rl=(s,)

sql="select \* from account where Mob=%s"

mycursor.execute(sql,rl)

elif ch==4:

s=input("Enter Adhar : ")

rl=(s,)

sql="select \* from account where Aadharno=%s"

mycursor.execute(sql,rl)

elif ch==5:

sql="select \* from account"

mycursor.execute(sql)

res=mycursor.fetchall()

print("The Customer details are as follows : ")

print("(Accno ,Name,Age,occu,Address,Mob,Aadharno,amt,AccType)")

for x in res:

k=pd.DataFrame(res,columns=['AcNo','Name','Age','Occn','Add','Mob','Aadh','Amt','AccTy'])

print(k)

#print(x)

def AccDeposit():

L=[]

Accno=int(input("Enter the Account number : "))

L.append(Accno)

Amtdeposit=eval(input("Enter the Amount to be deposited : "))

L.append(Amtdeposit)

month=input("Enter month of Salary : ")

L.append(month)

cust=(L)

sql="Insert into amt(Accno,Amtdeposit,Month) values(%s,%s,%s)"

mycursor.execute(sql,cust)

mydb.commit()

def accView():

print("Please enter the details to view the Money details :")

Accno=int(input("Enter the Account number of the Customer whose amount is to be viewed : "))

sql="Select Account.Accno, Account.Name, Account.Age,Account.occu,Account.Address,Account.Mob,Account.Aadharno,Account.Amt,Account.AccType, sum(amt.Amtdeposit), amt.month from Account INNER JOIN amt ON Account.Accno=amt.Accno and amt.Accno = %s"

rl=(Accno,)

mycursor.execute(sql,rl)

res=mycursor.fetchall()

for x in res:

print(x)

def closeAcc():

Accno=int(input("Enter the Account number of the Customer to be closed : "))

rl=(Accno,)

sql="Delete from amt where Accno=%s"

mycursor.execute(sql,rl)

sql="Delete from Account where Accno=%s"

mydb.commit()

def MenuSet(): #Function For The Student Management System

print("Enter 1 : To Add Customer")

print("Enter 2 : To View Customer ")

print("Enter 3 : To Deposit Money ")

print("Enter 4 : To Close Account")

print("Enter 5 : To View All Customer Details")

try: #Using Exceptions For Validation

userInput = int(input("Please Select An Above Option: "))

#Will Take Input From User

except ValueError:

exit("\nHy! That's Not a Number") #Error Message

else:

print("\n") #Print New Line

if(userInput == 1):

AccInsert()

elif (userInput==2):

AccView()

elif (userInput==3):

AccDeposit()

elif (userInput==4):

closeAcc()

elif (userInput==5):

accView()

else:

print("Enter correct choice. . . ")

MenuSet()

def runAgain():

runAgn = input("\n Do you want To Run Again Y/n: ")

while(runAgn.lower() == 'y'):

MenuSet()

runAgn = input("\n Do you want To Run Again Y/n: ")

runAgain()