**Name – Shahane Akash Dilip Roll No – C32260 Class – TE Div:2**

**Batch – T8 Subject - DBMS**

**Assignment No – 8**

**Title:** MySQL - Database Connectivity.

**Problem Statement:** Write a program to implement MySQL/Oracle database connectivity with any front-end language to implement Database navigation operations (add, delete, edit etc.)

**----------------------------------------------------------------**

import mysql.connector

con = mysql.connector.connect(

         user='root',

         password='root123',

         host='localhost',

         database='db\_user')

def insert(id,name, age, city):

    res = con.cursor()

    sql = "insert into users (id,name,age,city) values (%s,%s,%s,%s)"

    user = (id,name, age, city)

    res.execute(sql, user)

    con.commit()

    print("Data Insert Success")

def update(name, age, city,id):

    res = con.cursor()

    sql = "update users set name=%s,age=%s,city=%s where id=%s"

    user = (name, age, city,id)

    res.execute(sql, user)

    con.commit()

    print("Data Update Success")

def select():

    res = con.cursor()

    sql = "SELECT ID,NAME,AGE,CITY from users"

    res.execute(sql)

    # result=res.fetchone()

    # result=res.fetchmany(2)

    #result = res.fetchall()

    #print(tabulate(result, headers=["ID", "NAME", "AGE", "CITY"]))

    print(res.fetchall())

def delete(id):

    res = con.cursor()

    sql = "delete from users where id=%s"

    user = (id,)

    res.execute(sql, user)

    con.commit()

    print("Data Delete Success")

while True:

    print("1.Insert Data")

    print("2.Update Data")

    print("3.Select Data")

    print("4.Delete Data")

    print("5.Exit")

    choice = int(input("Enter Your Choice : "))

    if choice == 1:

        id = input("Enter The Id : ")

        name = input("Enter Name : ")

        age = input("Enter Age : ")

        city = input("Enter City : ")

        insert(id,name, age, city)

    elif choice == 2:

        id = input("Enter The Id : ")

        name = input("Enter Name : ")

        age = input("Enter Age : ")

        city = input("Enter City : ")

        update(name, age, city,id)

    elif choice == 3:

        select()

    elif choice == 4:

        id = input("Enter The Id to Delete : ")

        delete(id)

    elif choice == 5:

        quit()

    else:

        print("Invalid Selection . Please Try Again !")

**OUTPUT-**

1.Insert Data

2.Update Data

3.Select Data

4.Delete Data

5.Exit

Enter Your Choice : 1

Enter The Id : 1

Enter Name : Virat

Enter Age : 20

Enter City : Pune

Data Insert Success

1.Insert Data

2.Update Data

3.Select Data

4.Delete Data

5.Exit

Enter Your Choice : 2

Enter The Id : 1

Enter Name : Virat

Enter Age : 21

Enter City : Delhi

Data Update Success

1.Insert Data

2.Update Data

3.Select Data

4.Delete Data

5.Exit

Enter Your Choice : 3

[(1, 'Virat', 21, 'Delhi')]

1.Insert Data

2.Update Data

3.Select Data

4.Delete Data

5.Exit

Enter Your Choice : 4

Enter The Id to Delete : 1

Data Delete Success

1.Insert Data

2.Update Data

3.Select Data

4.Delete Data

5.Exit

Enter Your Choice : 3

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