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| **PLATFORM ENGINEERING ASSIGNMENT-II**    Akilesh Raj M  2021506010 |

Source Code:

import mysql.connector

from tabulate import tabulate

# Establishing connection

link = mysql.connector.connect(host="localhost", user="root", password="akil3942", database="pcpp\_db")

if link:

print("Connected")

else:

print("Connection error")

def insert(STUD\_ID, STUD\_NAME, AGE, CITY):

res = link.cursor()

sql = "INSERT INTO employees (STUD\_ID, STUD\_NAME, AGE, CITY) VALUES (%s, %s, %s, %s)"

user = (STUD\_ID, STUD\_NAME, AGE, CITY)

res.execute(sql, user)

link.commit()

print("Data Inserted Successfully")

def update(UP\_STUD\_ID, STUD\_ID, STUD\_NAME, AGE, CITY):

res = link.cursor()

sql = "UPDATE employees SET STUD\_ID=%s, STUD\_NAME=%s, AGE=%s, CITY=%s WHERE STUD\_ID=%s"

user = (STUD\_ID, STUD\_NAME, AGE, CITY, UP\_STUD\_ID)

res.execute(sql, user)

link.commit()

print("Data Updated Successfully")

def select():

res = link.cursor()

sql = "SELECT STUD\_ID, STUD\_NAME, AGE, CITY FROM employees"

res.execute(sql)

result = res.fetchall()

print(tabulate(result, headers=["STUD\_ID", "STUD\_NAME", "AGE", "CITY"]))

def delete(STUD\_ID):

res = link.cursor()

sql = "DELETE FROM employees WHERE STUD\_ID=%s"

user = (STUD\_ID,)

res.execute(sql, user)

link.commit()

print("Data Deleted Successfully")

def bulk\_insert(records):

res = link.cursor()

sql = "INSERT INTO employees (STUD\_ID, STUD\_NAME, AGE, CITY) VALUES (%s, %s, %s, %s)"

res.executemany(sql, records)

link.commit()

print("Bulk Insert Successful")

while True:

print("1. Insert Data")

print("2. Update Data")

print("3. Select Data")

print("4. Delete Data")

print("5. Bulk Insert Data")

print("6. Exit")

choice = int(input("Enter your choice: "))

if choice == 1:

STUD\_ID = input("Enter your STUD\_ID: ")

STUD\_NAME = input("Enter your Name: ")

AGE = int(input("Enter your Age: "))

CITY = input("Enter your College City: ")

insert(STUD\_ID, STUD\_NAME, AGE, CITY)

elif choice == 2:

UP\_STUD\_ID = input("Enter your STUD\_ID: ")

STUD\_ID = input("Enter your new id: ")

STUD\_NAME = input("Enter your Name: ")

AGE = int(input("Enter your Age: "))

CITY = input("Enter your City: ")

update(UP\_STUD\_ID, STUD\_ID, STUD\_NAME, AGE, CITY)

elif choice == 3:

select()

elif choice == 4:

Id = int(input("Enter the STUD\_ID to delete: "))

delete(Id)

elif choice == 5:

records = []

num\_records = int(input("Enter the number of records to insert: "))

for i in range(num\_records):

STUD\_ID = input(f"Enter STUD\_ID {i + 1}: ")

STUD\_NAME = input(f"Enter Name {i + 1}: ")

AGE = int(input(f"Enter Age {i + 1}: "))

CITY = input(f"Enter City Name {i + 1}: ")

records.append((STUD\_ID, STUD\_NAME, AGE, CITY))

bulk\_insert(records)

elif choice == 6:

quit()

else:

print("Invalid selection...!")