ASSIGNMENT 6:

Q1)

AIM: Create a table using a python connection with sql, create a function to store data in the table

Output requirements: Table

Code :

import mysql.connector as mc

def createdb():

    con = mc.connect(host = "localhost", user = "root", password = "sql123")

    if con.is\_connected():

        cur = con.cursor()

        cur.execute('create database institution;')

        cur.close()

        con.close()

def createtable():

    con = mc.connect(host = "localhost", user = "root", password = "sql123", database = 'institution')

    if con.is\_connected():

        cur = con.cursor()

        cur.execute('use institution;')

        cur.execute('create table Faculty (TID int not NULL Primary key, FNAME varchar(30), AGE int, SUBJECT varchar(20), SALARY int, DESIGNATION varchar(20));')

        cur.close()

        con.close()

def store():

    con = mc.connect(host = "localhost", user = "root", password = "sql123", database = "institution")

    if con.is\_connected():

        cur = con.cursor()

        while True:

            i = input("add more entry (y)/(n)")

            if i == "y":

                a = (int(input("FID ")), input("FNAME "), int(input("AGE " )), input("SUBJECT "), int(input("SALARY ")), input("DESIGNATION "))

                cur.execute(f"insert into faculty values{a}")

                con.commit()

                print("data stored ")

            else:

                break

    con.close()

    cur.close()

Q2)

AIM: Use python- sql connection to display a table

OUTPUT REQUIREMENT: TABLE

CODE:

def show\_table():

    con = mc.connect(host = "localhost", user = "root", password = "sql123", database = "institution")

    if con.is\_connected():

        cur = con.cursor()

        cur.execute("select \* from faculty;")

        print (f"{'FID':<20}{'FNAME':<20}{'AGE':<20}{'SUBJECT':<20}{'SALARY':<20}{'DESIGNATION':<20}")

        for i in cur:

            print (f"{i[0]:<20}{i[1]:<20}{i[2]:<20}{i[3]:<20}{i[4]:<20}{i[5]:<20}")

Q3)

AIM: Use python – sql connection to update a table with salary increment

CODE:

def update():

    con = mc.connect(host = "localhost", user = "root", password = "sql123", database = "institution")

    if con.is\_connected():

        cur = con.cursor()

        n = int(input("enter salary increment %"))

        cur.execute(f"update faculty set salary = ((salary / 100)\* {n} + salary);")

        con.commit()

        print ("updated data")

    cur.close()

    con.close()

q4)

AIM: Use python – sql connection to delete records from a table and search for information based on subject

CODE:

def delete():

    con = mc.connect(host = "localhost", user = "root", password = "sql123", database = "institution")

    if con.is\_connected():

        cur = con.cursor()

        n = int(input("enter TID to be deleted "))

        cur.execute(f"delete from faculty where TID = {n};")

        con.commit()

        print ("Data is deleted if it existed in the table ")

def search():

    con = mc.connect(host = "localhost", user = "root", password = "sql123", database = "institution")

    if con.is\_connected():

        cur = con.cursor()

        n = input("enter subject to be searched ")

        cur.execute(f"select \* from faculty where SUBJECT = '{n}';")

        print (f"{'FID':<20}{'FNAME':<20}{'AGE':<20}{'SUBJECT':<20}{'SALARY':<20}{'DESIGNATION':<20}")

        for i in cur:

            print (f"{i[0]:<20}{i[1]:<20}{i[2]:<20}{i[3]:<20}{i[4]:<20}{i[5]:<20}")

    cur.close()

    con.close()