Assignment 8

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

sudo su

mysql -u root -p

1) on command prompt

sudo apt install python3 -pip

pip3 install mysql-connector-python

2) code:-

import mysql.connector

from mysql.connector import Error

def create\_connection():

    try:

        connection = mysql.connector.connect(

            host='127.0.0.1',

            user='root',

            password='icoer123',

            database=''

        )

        if connection.is\_connected():

            print("Connected to MySQL database")

            return connection

    except Error as e:

        print(f"Error: {e}")

    return None

def create\_table(connection):

    create\_table\_query = """

    CREATE TABLE example\_table (

        id INT AUTO\_INCREMENT PRIMARY KEY,

        name VARCHAR(255) NOT NULL,

        age INT

    )

    """

    try:

        cursor = connection.cursor()

        cursor.execute(create\_table\_query)

        print("Table created successfully")

    except Error as e:

        print(f"Error: {e}")

def insert\_data(connection, name, age):

    insert\_query = "INSERT INTO example\_table (name, age) VALUES (%s, %s)"

    data = (name, age)

    try:

        cursor = connection.cursor()

        cursor.execute(insert\_query, data)

        connection.commit()

        print("Data inserted successfully")

    except Error as e:

        print(f"Error: {e}")

def read\_records(connection):

    select\_query = "SELECT \* FROM your\_table"

    try:

        cursor = connection.cursor()

        cursor.execute(select\_query)

        records = cursor.fetchall()

        for record in records:

            print(record)

    except Error as e:

        print(f"Error: {e}")

def update\_record(connection, record\_id, new\_name, new\_age):

    update\_query = "UPDATE your\_table SET name = %s, age = %s WHERE id = %s"

    data = (new\_name, new\_age, record\_id)

    try:

        cursor = connection.cursor()

        cursor.execute(update\_query, data)

        connection.commit()

        print("Record updated successfully")

    except Error as e:

        print(f"Error: {e}")

def delete\_record(connection, record\_id):

    delete\_query = "DELETE FROM your\_table WHERE id = %s"

    data = (record\_id,)

    try:

        cursor = connection.cursor()

        cursor.execute(delete\_query, data)

        connection.commit()

        print("Record deleted successfully")

    except Error as e:

        print(f"Error: {e}")

def main():

    connection = create\_connection()

    if connection is None:

        return

    create\_table(connection)

    insert\_data(connection, "John", 30)

    connection.close()

    print("Connection closed")

if \_\_name\_\_ == "\_\_main\_\_":

    main()

terminal:-

python3 mysqlconnector.py