

Assignment No. 9

Assignment Title: Database Connectivity:

Write a program to implement Menu driven MySQL/Oracle database connectivity with any front end language for Python/Java/PHP to implement Database navigation operations (add, delete, edit etc.)

Create a table for employee(empid, name, salary) and perform operations as insert a record, update values, delete particular record, display all record, display employees having salary > 50000, display record for particular employee

Python Code:

```
import mysql.connector

# Create a MySQL database connection
conn = mysql.connector.connect(
    host="your_host",
    user="your_user",
    password="your_password",
    database="your_database"
)

# Create a cursor to interact with the database
cursor = conn.cursor()

def display_records():
    query = "SELECT * FROM employee"
    cursor.execute(query)
    records = cursor.fetchall()
    if not records:
        print("No records found.")
    else:
        for record in records:
            print(f'EmpID: {record[0]}, Name: {record[1]}, Salary: {record[2]}')

while True:
    print("1. Insert a record")
    print("2. Update values")
    print("3. Delete a record")
    print("4. Display all records")
    print("5. Display employees with salary > 50000")
    print("6. Display record for a particular employee")
    print("7. Exit")

    choice = input("Enter your choice: ")

    if choice == "1":
        empid = input("Enter empid: ")
```

```

name = input("Enter name: ")
salary = input("Enter salary: ")
query = "INSERT INTO employee (empid, name, salary) VALUES (%s, %s, %s)"
cursor.execute(query, (empid, name, salary))
conn.commit()
print("Record inserted successfully.")

elif choice == "2":
    empid = input("Enter empid to update: ")
    new_salary = input("Enter new salary: ")
    query = "UPDATE employee SET salary = %s WHERE empid = %s"
    cursor.execute(query, (new_salary, empid))
    conn.commit()
    print("Record updated successfully.")

elif choice == "3":
    empid = input("Enter empid to delete: ")
    query = "DELETE FROM employee WHERE empid = %s"
    cursor.execute(query, (empid,))
    conn.commit()
    print("Record deleted successfully.")

elif choice == "4":
    display_records()

elif choice == "5":
    query = "SELECT * FROM employee WHERE salary > 50000"
    cursor.execute(query)
    records = cursor.fetchall()
    if not records:
        print("No employees with a salary greater than 50000.")
    else:
        for record in records:
            print(f"EmpID: {record[0]}, Name: {record[1]}, Salary: {record[2]}")

elif choice == "6":
    empid = input("Enter empid to display: ")
    query = "SELECT * FROM employee WHERE empid = %s"
    cursor.execute(query, (empid,))
    record = cursor.fetchone()
    if not record:
        print("Employee not found.")
    else:
        print(f"EmpID: {record[0]}, Name: {record[1]}, Salary: {record[2]}")

elif choice == "7":
    break

```

```
# Close the cursor and connection
cursor.close()
conn.close()
```