




Exercise 4

Create a table employee (empno, name and salary) using MySQL and perform the following:

-  To accept the details of employees and store it in database.
-  To display the details of a specific employee.
-  To display employee details whose salary lies within a certain range.

Code

```
import mysql.connector
cn = mysql.connector.connect(
    host="localhost",
    user="root",
    password="4321234",
    database="empdb"
)
cursor = cn.cursor()
while True:
    choice = int(input("1. Accept employee details\n2. Display details of a specific
employee\n3. Display details of an employee within a given salary range\n4.
Exit\nEnter your choice: "))
    if choice == 1:
        n = int(input('Enter the number of employees: '))
        for s in range(1, n+1):
            empno, name, salary = input(f'Enter Employee Number, Name, and Salary of
employee {s}: ').split()
            values = (empno, name, salary)
            cursor.execute("INSERT INTO employee (empno, name, salary) VALUES (%s,
%s, %s)", values)
            cn.commit()
            print("Record inserted successfully.")
    elif choice == 2:
        empno = input(f'Enter Employee Number of the employee to display details: ')
        values = (empno,)
        cursor.execute("SELECT * FROM employee WHERE empno = %s", values)
        record = cursor.fetchone()
        data = []
        if record:
            data.append(record)
            headers = ["Employee Number", "Employee Name", "Salary"]
            print(tabulate(data, headers, tablefmt="grid"))
        else:
            print("Employee not found.")
    elif choice == 3:
        min_salary, max_salary = input('Enter salary range: ').split()
        values = (min_salary, max_salary)
        cursor.execute("SELECT * FROM employee WHERE salary BETWEEN %s AND %s",
values)
        records = cursor.fetchall()
        data = []
        for record in records:
            data.append(record)
        headers = ["Employee Number", "Employee Name", "Salary"]
        print(tabulate(data, headers, tablefmt="grid"))
    elif choice == 4:
        print('Terminating..!')
        break
    else:
        print('Invalid choice..!')

cn.close()
```

Output

1. Accept employee details
2. Display details of a specific employee
3. Display details of an employee within a given salary range
4. Exit

Enter your choice: 1
 Enter the number of employees: 3
 Enter Employee Number, Name, and Salary of employee 1: 101 ASHRAY 39000
 Record inserted successfully.
 Enter Employee Number, Name, and Salary of employee 2: 102 NAYANA 45000
 Record inserted successfully.
 Enter Employee Number, Name, and Salary of employee 3: 103 ISHAN 28000
 Record inserted successfully.

1. Accept employee details
2. Display details of a specific employee
3. Display details of an employee within a given salary range
4. Exit

Enter your choice: 2
 Enter Employee Number of the employee to display details: 101

```

+-----+-----+-----+
| Employee Number | Employee Name | Salary |
+-----+-----+-----+
|           101 | ASHRAY       | 39000 |
+-----+-----+-----+
  
```

1. Accept employee details
2. Display details of a specific employee
3. Display details of an employee within a given salary range
4. Exit

Enter your choice: 3
 Enter salary range: 30000 50000

```

+-----+-----+-----+
| Employee Number | Employee Name | Salary |
+-----+-----+-----+
|           101 | ASHRAY       | 39000 |
+-----+-----+-----+
|           102 | NAYANA      | 45000 |
+-----+-----+-----+
  
```

1. Accept employee details
2. Display details of a specific employee
3. Display details of an employee within a given salary range
4. Exit

Enter your choice: 5
 Invalid choice..!

1. Accept employee details
2. Display details of a specific employee
3. Display details of an employee within a given salary range
4. Exit

Enter your choice: 4
 Terminating..!

| | | | |
|--------------------|--|--------------------------|--|
| Date of Submission | | Signature of the Faculty | |
| Remarks | | | |