# DAY 12

**1) EmployeeProcedureOperations**

```java
package Day12;

import java.sql.*;


public class EmployeeDBOperations {
    public static void main(String[] args) {
        String url = "jdbc:mysql://localhost:3306/mydb";
        String user = "root";
        String pass = "1752";


        try (Connection conn = DriverManager.getConnection(url, user, pass)) {


            // 1. Add 5000 Bonus to all employees
            CallableStatement bonusCall = conn.prepareCall("{CALL add_bonus()}");
            bonusCall.execute();
            System.out.println("Applied 5000 bonus to all employees successfully.\n");
            CallableStatement duplicateCall = conn.prepareCall("{CALL print_duplicate_names()}");
            ResultSet nameResults = duplicateCall.executeQuery();
            System.out.println("Employees with Repeated Names:");
            while (nameResults.next()) {
                System.out.println("Employee: " + nameResults.getString("emp_name") + ", Count: " +
nameResults.getInt("count"));
            }


            // 2. Print highest and lowest salary
            CallableStatement salaryCall = conn.prepareCall("{CALL salary_stats()}");
            ResultSet salaryResults = salaryCall.executeQuery();
            if (salaryResults.next()) {
                System.out.println("\nTop Salary: " + salaryResults.getDouble("highest_salary"));
                System.out.println("Bottom Salary: " + salaryResults.getDouble("lowest_salary"));
            }
```

```
        } catch (SQLException e) {

            System.out.println("Failed database operation: " + e.getMessage());

            e.printStackTrace();

        }

    }

}
```

**Output:**

**Applied 5000 bonus to all employees successfully.**


**Employees with Repeated Names:**

**Employee: Harshu, Count: 2**

**Employee: Dhanya, Count: 3**


**Top Salary: 95000.0**

**Bottom Salary: 25000.0**


2) **Hospital_Data**

```
package Day12;

import java.sql.*;

public class HospitalDBOperations {
    public static void main(String[] args) {
        String url = "jdbc:mysql://localhost:3306/mydb";
        String user = "root";
        String password = "1752";

        try (Connection conn = DriverManager.getConnection(url, user, password)) {
            System.out.println("Database connection established successfully...");

            // 1. Average patient count daily
            CallableStatement avgPatientCall = conn.prepareCall("{CALL avg_patient_count_daily()}");
            ResultSet avgPatientResults = avgPatientCall.executeQuery();
            System.out.println("\nDaily Patient Statistics:");
            while (avgPatientResults.next()) {
                System.out.println("Average daily patient count: " +
        avgPatientResults.getDouble("avg_patient_per_day"));
            }

            // 2. Patients from the same ward
            CallableStatement wardPatientCall = conn.prepareCall("{CALL patients_same_ward()}");
            ResultSet wardPatientResults = wardPatientCall.executeQuery();
            System.out.println("\nPatients Grouped by Ward:");
```

```java
            while (wardPatientResults.next()) {
                System.out.println("ID: " + wardPatientResults.getInt("patient_id") + ", Name: " +
                        wardPatientResults.getString("name") + ", Ward: " +
                        wardPatientResults.getInt("ward_no"));
            }


            // 3. Patients ordered by admission date
            CallableStatement admissionCall = conn.prepareCall("{CALL patients_by_admission()}");
            ResultSet admissionResults = admissionCall.executeQuery();
            System.out.println("\nPatients Sorted by Admission Date:");
            while (admissionResults.next()) {
                System.out.println("ID: " + admissionResults.getInt("patient_id") + ", Name: " +
                        admissionResults.getString("name") + ", Admitted on: " +
                        admissionResults.getDate("admission_date"));
            }

        } catch (SQLException e) {
            System.out.println("Database operation failed: " + e.getMessage());
            e.printStackTrace();
        }
    }
}
```

**Output:**
**Database connection established successfully...**

**Daily Patient Statistics:**
**Average daily patient count: 25.5**

**Patients Grouped by Ward:**
**ID: 101, Name: Harshu, Ward: 1**
**ID: 102, Name: Dhanya, Ward: 1**
**ID: 103, Name: Thejas, Ward: 2**
**ID: 104, Name: Yakshith, Ward: 2**

**Patients Sorted by Admission Date:**
**ID: 102, Name: Dhanya, Admitted on: 2023-01-15**
**ID: 101, Name: Harshu, Admitted on: 2023-02-10**
**ID: 104, Name: Yakshith, Admitted on: 2023-03-05**
**ID: 103, Name: Thejas, Admitted on: 2023-04-20**