HOSPITAL PROJECT

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package hosp_manage;
import java.sql.*;
import java.util.Scanner;
public class HospitalApp {
 public static void main(String[] args) {
   Scanner in = new Scanner(System.in);
   String url = "jdbc:mysql://localhost:3306/my_db";
   String user = "root";
   String pass = "Penny#219";
   while(true){
     System.out.println("\n--- Hospital Menu ---");\\
     System.out.println("1. Show Avg Patients");
     System.out.println("2. Patients per Ward");
     System.out.println("3. Patients by Admission");
     System.out.println("4. Add Appointment");
     System.out.println("5. Quit");
     System.out.print("Choice: ");
     int op = in.nextInt();
     in.nextLine();
     if(op==1) avgPatients(url,user,pass);
     else if(op==2) wardPatients(url,user,pass);
     else if(op==3) admissionList(url,user,pass);
     else if(op==4) makeAppointment(in,url,user,pass);
     else if(op==5) break;
     else System.out.println("Wrong option");
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}
}
static void avgPatients(String url,String user,String pass){
 try(Connection c=DriverManager.getConnection(url,user,pass);
    CallableStatement st=c.prepareCall("call getcount()")){
   ResultSet r=st.executeQuery();
   if(r.next()){
      System.out.println("Avg patients/day = "+r.getDouble("average_patient_count"));
   }
 }catch(Exception e){System.out.println("Problem fetching avg");}
}
static void wardPatients(String url,String user,String pass){
  try(Connection c=DriverManager.getConnection(url,user,pass);
    Callable Statement\ st=c.prepare Call ("call\ getpward ()")) \{
    ResultSet r=st.executeQuery();
   while(r.next()){
      System.out.println(r.getString("ward")+" -> "+r.getString("patients"));
   }
 }catch(Exception e){System.out.println("Problem fetching wards");}
}
static void admissionList(String url, String user, String pass){
  try(Connection c=DriverManager.getConnection(url,user,pass);
    CallableStatement st=c.prepareCall("call getadmission()")){
    ResultSet r=st.executeQuery();
   while(r.next()){
      System.out.println(r.getInt("p_id")+" | "+r.getString("name")+" | "+r.getDate("admiss_date"));
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}
   }catch(Exception e){System.out.println("Problem fetching admissions");}
 }
 static void makeAppointment(Scanner in, String url, String user, String pass){
   try(Connection c=DriverManager.getConnection(url,user,pass)){
     System.out.print("Patient ID: ");
     int id=in.nextInt(); in.nextLine();
     System.out.print("Appointment Date (YYYY-MM-DD): ");
     String ad=in.nextLine();
     System.out.print("Admission Date (YYYY-MM-DD): ");
     String dd=in.nextLine();
     String q="insert into appoin(p_id,appoi_date,admiss_date) values(?,?,?)";
     PreparedStatement ps=c.prepareStatement(q);
     ps.setInt(1,id);
     ps.setDate(2,Date.valueOf(ad));
     ps.setDate(3,Date.valueOf(dd));
     ps.executeUpdate();
     System.out.println("Appointment added.");
   }catch(Exception e){System.out.println("Could not add appointment");}
 }
Assignment Question
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}

1)Create an employee table

(a)Adding 5000 bonus

(2)Create following procedures :

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(b)same name employees
(c)highest and lowest salaries
<mark>Answer</mark>
Create an employee table.
use mydb;
create table employee(
id int,
name varchar(30),
salary int
);
insert into employee values
(1,'Sharma',50000),
(2,'Sharma',60000),
(3,'Neva Sharma',70000),
(4,'Neeva Shama',80000);
(a). Create a procedure for adding 5000 bonus to all employees.
delimiter //
create procedure addBonus()
begin
update employee
set salary = salary + 5000;
end //
delimiter;
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(c). Create a procedure to display highest and lowest salaries.
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delimiter //
create procedure highLow()
begin
select max(salary) as max_salary,
   min(salary) as min_salary
from employee;
end //
delimiter;
   1. Program to call addBonus()
Answer
package jdbcCon;
import java.sql.*;
public class EmpBonus {
  public static void main(String[] args) {
   try(Connection con = DriverManager.getConnection(
       "jdbc:mysql://localhost:3306/mydb","root","Penny#219")) {
     CallableStatement cs = con.prepareCall("{call addBonus()}");
     cs.execute();
     Statement st = con.createStatement();
     ResultSet rs = st.executeQuery("select * from employee");
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while(rs.next()) {

System.out.println(rs.getInt("id") + " " +

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rs.getString("name") + " " +
                rs.getInt("salary"));
     }
   } catch(Exception e) {
     System.out.println(e);
   }
 }
}
   2. Program to call sameName()
   Answer
   package jdbcCon;
   import java.sql.*;
   public class EmpSame {
     public static void main(String[] args) {
       try(Connection con = DriverManager.getConnection(
           "jdbc:mysql://localhost:3306/mydb","root","Penny#219")) {
         CallableStatement cs = con.prepareCall("{call sameName()}");
         ResultSet rs = cs.executeQuery();
         System.out.println("Employees with same name:");
         while(rs.next()) {
           System.out.println(rs.getString("name"));
         }
       } catch(Exception e) {
         System.out.println(e);
```

```
}
 }
}
3. Program to call highLow()
<u>Answer</u>
package jdbcCon;
import java.sql.*;
public class EmpHighLow {
  public static void main(String[] args) {
   try(Connection con = DriverManager.getConnection(
        "jdbc:mysql://localhost:3306/mydb","root","Penny#219")) {
     CallableStatement cs = con.prepareCall("{call highLow()}");
     ResultSet rs = cs.executeQuery();
     if(rs.next()) {
       System.out.println("Highest Salary: "+rs.getInt("max\_salary"));
       System.out.println("Lowest Salary: " + rs.getInt("min_salary"));
     }
   } catch(Exception e) {
     System.out.println(e);
   }
 }
```

}