/\*  
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 \*/  
  
*/\*\*  
 \*SP19-BSE-043 Abdul Rauf Lab Assignment 3  
 \** ***@author*** *Admin  
 \*/*import java.sql.\*;  
public class Ems {  
  
 */\*\*  
 \** ***@param*** *args the command line arguments  
 \*/* static Connection connection = null;  
 static Statement statement = null;  
 static ResultSet resultSet= null;  
 public static void main(String[] args) {  
 // TODO code application logic here  
  
   
// /String name,int id , boolean gender, String type)  
 Employee em1 = new Employee("Ali", 100,true, "Permanent");  
 Employee em2 = new Employee("Tooba", 200, false, "Visiting");  
 Employee em3= new Employee("Ahmad",300,true,"ContractBased");  
   
 //add employees  
 addEmployee(em1);  
 addEmployee(em2);  
 addEmployee(em3);  
 /\*  
 Create another static method of searchEmployee(Employee employee Now print the data of permanent employee.  
Hint: SELECT \* from employees  
 \*/  
 searchEmployee(em1);  
 searchEmployee(em2);  
 searchEmployee(em2);  
   
 System.out.println("Printing all the records one by one");   
   
 /\*  
 Create another static method of printEmployee(). Loop through the ResultSet to read each record one-by-one.  
Hint: SELECT \* from employees  
 \*/   
 printEmployee();  
 /\* Create another static method of updateEmployee(). Update type of employee named Tooba. New type should be permanent.  
Hint: UPDATE employees set type  
 \*/  
 updateEmployee();  
   
 /\*  
 Create another static method of deleteEmployee(). Deleterecord of the employee Ali.  
Hint: DELETE FROM employees  
  
 \*/  
   
 deleteEmployee();  
 }  
   
 public static void addEmployee(Employee em){  
 Connection connection = null;  
 Statement statement = null;  
   
   
 try{  
 connection = DriverManager.getConnection("jdbc:mysql://localhost/ems", "root", "abdul123");  
 statement = connection.createStatement();  
 statement.executeUpdate(String.format("INSERT INTO employees (id, name, gender, type) VALUES (%d, '%s', '%d', '%s')",em.getId(), em.getName(), em.getGender(), em.getType()) );  
 }catch(SQLException e){  
 System.out.println(e.getMessage());  
 }  
   
 }   
   
 //searchEmployees display if the employee is permanent  
 public static void searchEmployee(Employee employee){  
 Connection connection = null;  
 Statement statement = null;  
 ResultSet resultSet = null;  
   
 try{  
 connection = DriverManager.getConnection("jdbc:mysql://localhost/ems", "root", "abdul123");  
 statement = connection.createStatement();  
 resultSet = statement.executeQuery("SELECT \* FROM employees");  
   
 while(resultSet.next()){  
 if(resultSet.getInt("id")== employee.getId() && resultSet.getString("type").equals("Permanent")){  
 System.out.println("id: "+ resultSet.getInt("id"));  
 System.out.println("name: "+ resultSet.getString("name"));  
 System.out.println("gender: "+ (resultSet.getInt("gender") == 1 ? "MALE" : "FEMALE"));  
 System.out.println("type: "+ resultSet.getString("type"));  
 }  
 }  
 }catch(SQLException e){  
 System.out.println(e.getMessage());  
 }  
 }  
   
 public static void printEmployee(){  
 Connection connection = null;  
 Statement statement = null;  
 ResultSet resultSet = null;  
   
 try{  
 connection = DriverManager.getConnection("jdbc:mysql://localhost/ems", "root", "abdul123");  
 statement = connection.createStatement();  
 resultSet = statement.executeQuery("SELECT \* FROM employees");  
   
 while(resultSet.next()){  
 System.out.println("id: "+ resultSet.getInt("id"));  
 System.out.println("name: "+ resultSet.getString("name"));  
 System.out.println("gender: "+ (resultSet.getInt("gender") == 1 ? "MALE" : "FEMALE"));  
 System.out.println("type: "+ resultSet.getString("type"));   
 }  
 }catch(SQLException e){  
 System.out.println(e.getMessage());  
 }  
 }  
 public static void updateEmployee(){  
 Connection connection = null;  
 Statement statement = null;  
   
   
 try{  
 connection = DriverManager.getConnection("jdbc:mysql://localhost/ems", "root", "abdul123");  
 statement = connection.createStatement();  
 statement.executeUpdate("UPDATE employees SET type='Permanent' WHERE name='Tooba'" );  
 }catch(SQLException e){  
 System.out.println(e.getMessage());  
 }  
   
 }   
   
 public static void deleteEmployee(){  
 Connection connection = null;  
 Statement statement = null;  
   
   
 try{  
 connection = DriverManager.getConnection("jdbc:mysql://localhost/ems", "root", "abdul123");  
 statement = connection.createStatement();  
 statement.executeUpdate("DELETE FROM employees WHERE name='ALI'" );  
 }catch(SQLException e){  
 System.out.println(e.getMessage());  
 }  
   
 }   
}  
  
  
  
public class Employee {  
  
 private int id;  
 private String name;  
 private boolean gender;  
 private String type;  
  
 public Employee(String name,int id , boolean gender, String type) {  
 this.id = id;  
 this.name = name;  
 this.gender = gender;  
 this.type = type;  
 }  
  
 public int getId() {  
 return id;  
 }  
  
 public String getName() {  
 return name;  
 }  
  
 public boolean isGender() {  
 return gender;  
 }  
  
 public String getType() {  
 return type;  
 }  
 public int getGender(){  
 return gender?1:0;  
 }  
  
  
  
}