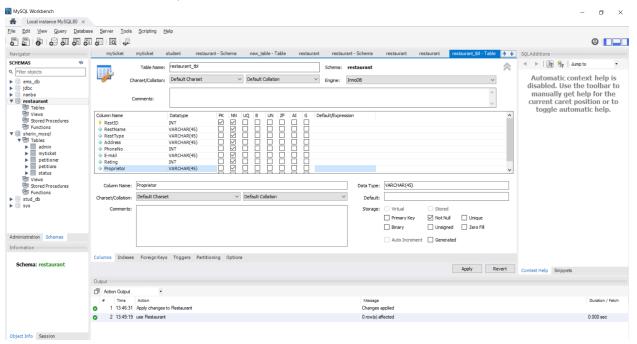
Q11) Restaurant Management System

Property	Туре
RestID	Int
RestName	String
RestType	String
Address	String
PhoneNo	String
E-mail	String
Rating	Float
Proprietor	String

Create a Database, table and columns:



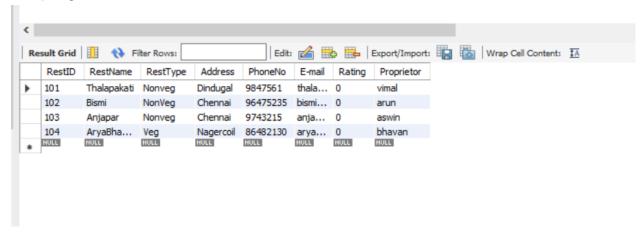
Create a new project, package and class

✓ IDBMVCAssessment
 ⇒ IRE System Library [JavaSE-17]
 ✓ IP src
 ✓ IP com.rms.bean
 → IP Restaurant.java
 ✓ IP Com.rms.dao
 → IP RestaurantDAO.java
 ✓ IP Com.rms.main
 → IP RestaurantMain.java
 ✓ IP DBUtill.java
 → IP DBUtill.java
 → IP DBUtill.java
 → IP Module-info.java
 → IP Referenced Libraries

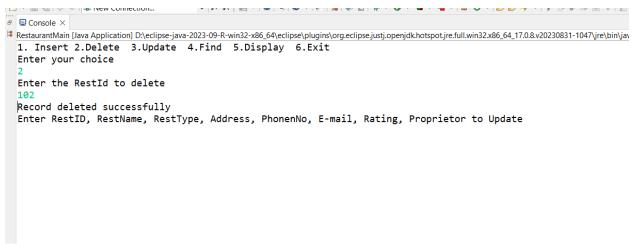
Insert the values in the columns

```
nessaurantinam pava Appineationij pojecinpserjavarzoozorororuminozooogorijecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogrinskorgiecinpsetyprogr
 Enter your choice
 Enter RestID, RestName, RestType, Address, PhonenNo, E-mail, Rating, Proprietor to Insert
 Anjapar
Nonveg
 Chennai
 9743215
 anjapar@gmail.com
 Record Inserted Successfully
Do you wish to continue(yes/no)
 1. Insert 2.Delete 3.Update 4.Find 5.Display 6.Exit
 Enter your choice
 Enter RestID, RestName, RestType, Address, PhonenNo, E-mail, Rating, Proprietor to Insert
 104
AryaBhavan
Veg
Nagercoil
86482130
 aryabhavan@gmail.com
bhavan
Record Inserted Successfully
Do you wish to continue(yes/no)
```

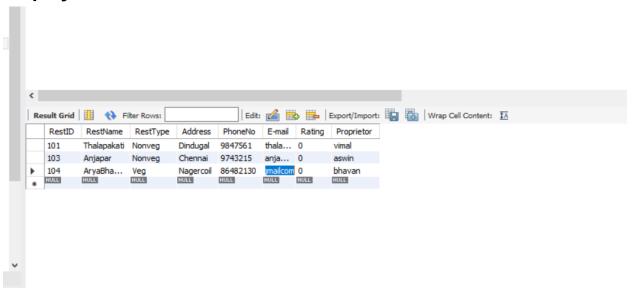
Display the values in the column



Delete the value in the column



Display the value in the column



Update the value in column

```
RestaurantMain [Java Application] [pid: 15008]
1. Insert 2.Delete 3.Update 4.Find 5.Display 6.Exit
Enter your choice
Enter RestID:
 RestName:
 RestType:
 Address:
 PhonenNo:
 Email:
 Rating:
 Proprietor
101
Bismi
NonVeg
Namakal
954823
bismigmailcom
Record Update Successfully
Do you wish to continue(yes/no)
```

Find the value in the column

```
Do you wish to continue(yes/no)

yes

1. Insert 2.Delete 3.Update 4.Find 5.Display 6.Exit
Enter your choice

4
Enter the RestId to Find

104

RestName:AryaBhavan
RestType:Veg
Address:Nagercoil
PhoneNo:86482130
E-mail:aryabhavangmailcom
Rating:8
Proprieter:bhavan
Record founded
Do you wish to continue(yes/no)
```

Display all the values

```
Do you wish to continue(yes/no)

yes

1. Insert 2.Delete 3.Update 4.Find 5.Display 6.Exit

Enter your choice

5

RestID:101 RestName:Bismi RestType:NonVeg Address:Namakal PhoneNo:954823 Email:bismigmailcom Rating:0 Proprioter:madan

RestID:103 RestName:Anjapar RestType:Nonveg Address:Chennai PhoneNo:9743215 Email:anjapargmailcom Rating:5 Proprioter:aswin

RestID:105 RestName:Anjabhavan RestType:Veg Address:Madurai PhoneNo:87482130 Email:anjabavangmailcom Rating:8 Proprioter:bhava

RestD:105 RestName:SVC RestType:Veg Address:Madurai PhoneNo:87964556 Email:maduraigmail.com Rating:0 Proprioter:Ram

RectOnd displayed successfully

Do you wish to continue(yes/no)
```

DAO code

```
package com.rms.dao;
import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import com.rms.bean.restaurant_tbl;
import com.rms.util.DBUtill;
public class RestaurantDAO {
      public int insertRestaurant(restaurant tbl rm) {
            int n = 0;
            try {
                   Connection con = DBUtill.getDBConnection();
                   String sql = "insert into restaurant_tbl values(?,?,?,?,?,?,?)";
                   PreparedStatement ps = con.prepareStatement(sql);
                   ps.setInt(1, rm.getRestId());
                   ps.setString(2, rm.getRestName());
                   ps.setString(3, rm.getRestType());
                   ps.setString(4, rm.getAddress());
                   ps.setInt(5, rm.getPhoneNo());
                   ps.setString(6, rm.getEmail());
                   ps.setInt(7, rm.getRating());
                   ps.setString(8, rm.getProprietor());
                   n = ps.executeUpdate();
            } catch (SQLException e) {
                   System.out.println(e);
            return n;
      }
      // delete the value
      public int deleteRestaurant(int RestID) {
            int n = 0;
            try {
                   Connection con = DBUtill.getDBConnection();
                   String sql = "delete from restaurant tbl where RestID=?";
                   PreparedStatement ps = con.prepareStatement(sql);
                   ps.setInt(1, RestID);
                   n = ps.executeUpdate();
            } catch (SQLException e) {
                   System.err.println(e);
```

```
return n;
//update the value
      public int updateRestaurant(restaurant_tbl rm) {
            int n = 0;
            try {
                   Connection con = DBUtill.getDBConnection();
                   String sql = "update restaurant tbl set
RestName=?,RestType=?, Address=?, PhoneNo=?, Email=?, Rating=?,
Proprietor=? where RestID=?";
                   PreparedStatement ps = con.prepareStatement(sql);
                   ps.setString(1, rm.getRestName());
                   ps.setString(2, rm.getRestType());
                   ps.setString(3, rm.getAddress());
                   ps.setInt(4, rm.getPhoneNo());
                   ps.setString(5, rm.getEmail());
                   ps.setInt(6, rm.getRating());
                   ps.setString(7, rm.getProprietor());
                   ps.setInt(8, rm.getRestId());
                   n = ps.executeUpdate();
            } catch (SQLException e) {
                   System.out.println(e);
            return n;
//find the value
      public int findRestaurant(int id) {
            int n = 0:
            try {
                   Connection con = DBUtill.getDBConnection();// RETURN the
connection object
                   String sql = "select*from restaurant_tbl where RestID=?";
                   PreparedStatement ps = con.prepareStatement(sql);
                   ps.setInt(1, id);
                   ResultSet rs = ps.executeQuery();
                   while (rs.next()) {
                         System.out.println("\nRestName:" + rs.getString(2) +
"\nRestType:" + rs.getString(3) + "\nAddress:"
```

```
+ rs.getString(4) + "\nPhoneNo:" +
rs.getInt(5) + "\nE-mail:" + rs.getString(6) + "\nRating:"
                                       + rs.getInt(7) + "\nProprieter:" +
rs.getString(8));
                          n = 1;
                   }
             } catch (Exception e) {
                   System.out.println(e);
             return n;
      }
      // display
      public int Display() {
             int n = 0;
             try {
                   Connection con = DBUtill.getDBConnection();
                   String q = "select * from restaurant_tbl";
                   PreparedStatement ps = con.prepareStatement(q);
                   ResultSet rs = ps.executeQuery();
                   while (rs.next())
                          System.out.println("RestID:" + rs.getInt(1) +
"\tRestName:" + rs.getString(2) + "\tRestType:"
                                       + rs.getString(3) + "\tAddress:" +
rs.getString(4) + "\tPhoneNo:" + rs.getInt(5) + "\tEmail:"
                                       + rs.getString(6) + "\tRating:" + rs.getInt(7)
+ "\tProprioter:" + rs.getString(8));
                   n = 1;
             } catch (SQLException e) {
                   e.printStackTrace();
             return n;
      }
}
```

Main code

```
package com.rms.main;
import java.util.Scanner;
import com.rms.bean.restaurant_tbl;
import com.rms.dao.RestaurantDAO;
public class RestaurantMain {
      static Scanner sc = new Scanner(System.in);
      public static int displaymenu() {
             System.out.println("1. Insert 2.Delete 3.Update 4.Find 5.Display
6.Exit");
             System.out.println("Enter your choice");
             int choice = sc.nextInt();
             return choice;
      public static restaurant tbl insertRestaurant() {
             System.out.println("Enter RestID, RestName, RestType, Address,
PhonenNo, E-mail, Rating, Proprietor to Insert");
             return new restaurant_tbl(sc.nextInt(), sc.next(), sc.next(), sc.next(),
sc.nextInt(), sc.next(), sc.nextInt(),
                          sc.next());
      }
      public static int deleteRestaurant() {
             System.out.println("Enter the Restld to delete");
             return (sc.nextInt());
      public static restaurant tbl updateRestaurant() {
             System.out.println(
                          "Enter RestID:\n RestName:\n RestType:\n Address:\n
PhonenNo:\n Email:\n Rating:\n Proprietor");
             return new restaurant_tbl(sc.nextInt(), sc.next(), sc.next(), sc.next(),
sc.nextInt(), sc.next(), sc.nextInt(),
                          sc.next());
      }
      public static int findRestaurant() {
             System.out.println("Enter the Restld to Find");
             return (sc.nextInt());
      public static void main(String[] args) {
             String msg = " ";
```

```
int n;
            RestaurantDAO dao = new RestaurantDAO();
            do {
                   switch (displaymenu()) {
                   case 1:
                         restaurant_tbl n1 = insertRestaurant();
                         n = dao.insertRestaurant(n1);
                         if (n == 1)
                               System.out.println("Record Inserted
Successfully");
                         else
                               System.out.println("Record Insertion Failure");
                         break;
                   case 2:
                         int RestID = deleteRestaurant();
                         n = dao.deleteRestaurant(RestID);
                         if (n == 1)
                               System.out.println("Record deleted
successfully");
                         else
                               System.out.println("Record not found");
                         break;
                   case 3:{
                         restaurant_tbl n2 = updateRestaurant();
                         n = dao.updateRestaurant(n2);
                         if (n == 1)
                               System.out.println("Record Update
Successfully");
                         else
                               System.out.println("Record Updation Failure");
                   }
                         break;
                   case 4:
                         int id = findRestaurant();
                         int n4 = dao.findRestaurant(id);
                         if (n4 == 1)
                               System.out.println("Record founded");
                         else
```

```
System.out.println("Record not found");
                         break:
                   case 5:
                         n4 = dao.Display();
                         if (n4 == 1)
                                System.out.println("Record displayed
successfully");
                         else
                                System.out.println("Record not found");
                         break;
                   case 6:
                         System.exit(0);
                         break;
                   default:
                         System.out.println("There is no process for your
Input....!!!!!!");
                   }
                   System.out.println("Do you wish to continue(yes/no)");
                   msg = sc.next();
            while (msg.equals("yes"));
      }
}
```

Bean code

```
package com.rms.bean;
public class restaurant_tbl {
        private int Restld;
        private String RestName;
        private String RestType;
        private String Address;
        private int PhoneNo;
        private String Email;
        private int Rating;
            public restaurant_tbl(int restld, String restName, String restType,
String address, int phoneNo, String email,
                         int Rating, String proprietor) {
                   super();
                   Restld = restld;
                   RestName = restName;
                   RestType = restType;
                   Address = address;
                   PhoneNo = phoneNo;
                   Email = email;
                   Rating = Rating;
                   Proprietor = proprietor;
            private String Proprietor;
        public restaurant_tbl() {
           super();
        }
            public int getRestId() {
                   return Restld;
            public void setRestId(int restId) {
                   Restld = restld:
            public String getRestName() {
                   return RestName;
            public void setRestName(String restName) {
                   RestName = restName;
```

```
public String getRestType() {
      return RestType;
public void setRestType(String restType) {
      RestType = restType;
public String getAddress() {
      return Address;
public void setAddress(String address) {
      Address = address;
public int getPhoneNo() {
      return PhoneNo;
public void setPhoneNo(int phoneNo) {
      PhoneNo = phoneNo;
public String getEmail() {
      return Email;
public void setEmail(String email) {
      Email = email;
public int getRating() {
      return Rating;
public void setRating(int rating) {
      Rating = rating;
public String getProprietor() {
      return Proprietor;
public void setProprietor(String proprietor) {
      Proprietor= proprietor;
}
```

}

```
Util code
package com.rms.util;
import java.sql.Connection;
import java.sql.DriverManager;
public class DBUtill {
     public static Connection getDBConnection()
          Connection con =null;
          final String
URL="jdbc:mysql://localhost:3306/restaurant";
          final String User="root";
          final String pass="Password@12345";
         try {
               con =
DriverManager.getConnection(URL,User,pass);
          catch(Exception e)
               System.out.println(e);
          return con;
}
}
```