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**Core Java Lab Assessment**

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## **Question : Online Food Delivery Management System**

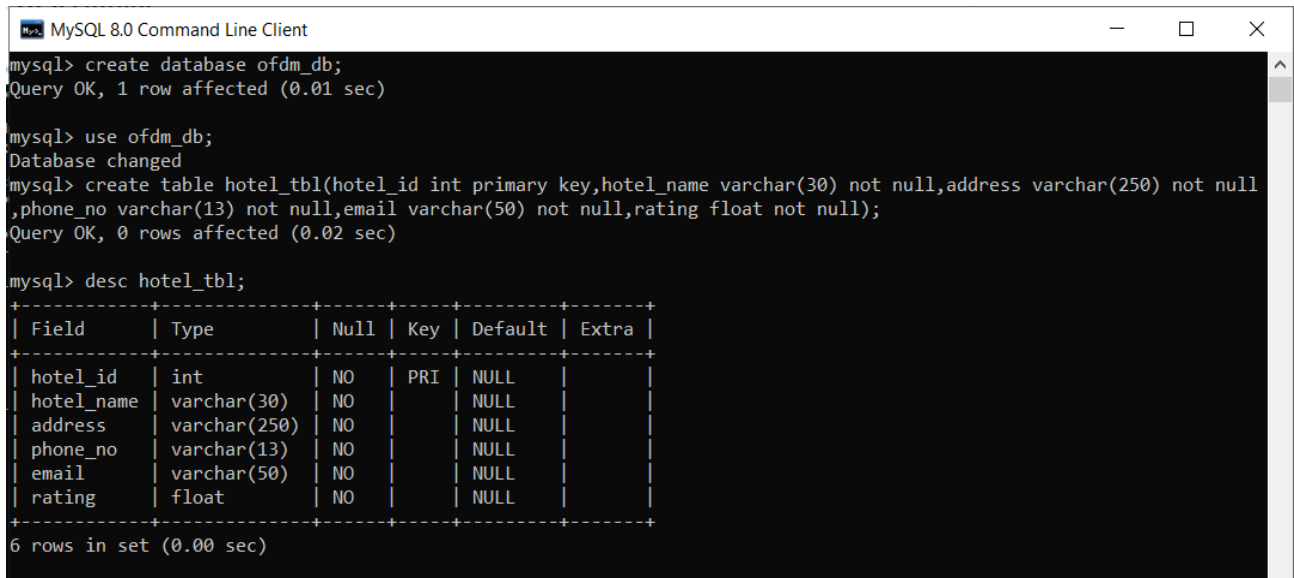
<b>Property</b>	<b>Type</b>
<b>HotelID</b>	<b>Int</b>
<b>HotelName</b>	<b>String</b>
<b>Address</b>	<b>String</b>
<b>PhoneNo</b>	<b>String</b>
<b>E-mail</b>	<b>String</b>
<b>Rating</b>	<b>Float</b>

### **Note:**

- 1. Define a console based application for the given scenario using Java.**
- 2. Use MySQL as your database.**
- 3. Perform all the CRUD operations using Java DAO pattern.**
- 4. Make the application as user interactive.**
- 5. Maintain the Code Quality and the Coding Standard .**

**Answer:**

## DataBase Description:

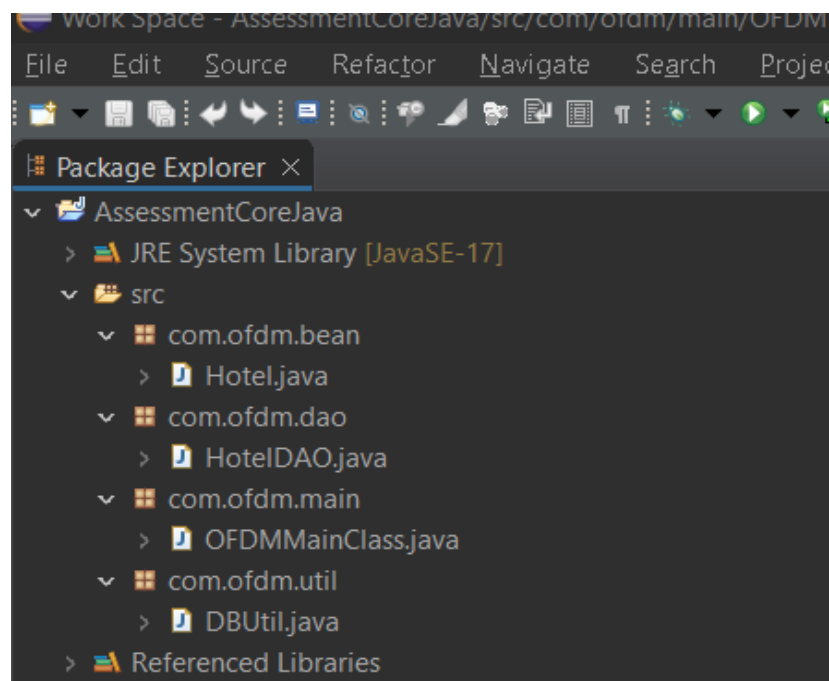


```
mysql> create database ofdm_db;
Query OK, 1 row affected (0.01 sec)

mysql> use ofdm_db;
Database changed
mysql> create table hotel_tbl(hotel_id int primary key,hotel_name varchar(30) not null,address varchar(250) not null
,phone_no varchar(13) not null,email varchar(50) not null,rating float not null);
Query OK, 0 rows affected (0.02 sec)

mysql> desc hotel_tbl;
+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| hotel_id   | int           | NO   | PRI | NULL    |       |
| hotel_name | varchar(30)   | NO   |     | NULL    |       |
| address    | varchar(250)  | NO   |     | NULL    |       |
| phone_no   | varchar(13)   | NO   |     | NULL    |       |
| email      | varchar(50)   | NO   |     | NULL    |       |
| rating     | float         | NO   |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.00 sec)
```

## File Structure:



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## Coding:

### Com.ofdm.bean : Hotel.java

```
package com.ofdm.bean;

public class Hotel {

    private int hotelId;

    private String hotelName;

    private String address;

    private String phoneNo;

    private String email;

    private float rating;

    public Hotel(int hotelId, String hotelName, String address, String phoneNo, String email, float
rating) {

        super();

        this.hotelId = hotelId;

        this.hotelName = hotelName;

        this.address = address;

        this.phoneNo = phoneNo;

        this.email = email;

        this.rating = rating;

    }

    public int getHotelId() {

        return hotelId;

    }

    public void setHotelId(int hotelId) {

        this.hotelId = hotelId;

    }

}
```

```
public String getHotelName() {  
    return hotelName;  
}  
  
public void setHotelName(String hotelName) {  
    this.hotelName = hotelName;  
}  
  
public String getAddress() {  
    return address;  
}  
  
public void setAddress(String address) {  
    this.address = address;  
}  
  
public String getPhoneNo() {  
    return phoneNo;  
}  
  
public void setPhoneNo(String phoneNo) {  
    this.phoneNo = phoneNo;  
}  
  
public String getEmail() {  
    return email;  
}  
  
public void setEmail(String email) {  
    this.email = email;  
}  
  
public float getRating() {  
    return rating;  
}  
  
public void setRating(float rating) {
```

```
        this.rating = rating;
    }
}
```

## Com.ofdm.util : DBUtil.java

```
package com.ofdm.util;

import java.sql.*;

public class DBUtil {

    private static final String url = "jdbc:mysql://localhost:3306/ofdm_db";

    private static final String user = "root";

    private static final String password = "sam@6383587926";

    public static Connection getDBConnection() {

        Connection con = null;

        try {

            Class.forName("com.mysql.cj.jdbc.Driver");

            con = DriverManager.getConnection(url,user,password);

        } catch (Exception e) {

            e.printStackTrace();

        }

        return con;

    }

}
```

## Com.ofdm.dao : HotelDAO.java

```
package com.ofdm.dao;

import java.sql.*;
import java.util.*;
import com.ofdm.bean.Hotel;
import com.ofdm.util.DBUtil;

public class HotelDAO {

    private static Connection con = DBUtil.getDBConnection();

    private static List<Hotel> list;

    public int insertHotel(Hotel h) {

        int n = 0;

        try {

            String q = "insert into hotel_tbl value(?,?,?,?,?,?)";

            PreparedStatement ps = con.prepareStatement(q);

            ps.setInt(1, h.getHotelId());

            ps.setString(2, h.getHotelName());

            ps.setString(3, h.getAddress());

            ps.setString(4, h.getPhoneNo());

            ps.setString(5, h.getEmail());

            ps.setFloat(6, h.getRating());

            n = ps.executeUpdate();

        } catch (Exception e) {

            e.printStackTrace();

        }

        return n;

    }

}
```

```
}
```

```
public int deleteHotel(int id) {
```

```
    int n=0;
```

```
    try {
```

```
        String q = "delete from hotel_tbl where hotel_id = ?";
```

```
        PreparedStatement ps = con.prepareStatement(q);
```

```
        ps.setInt(1, id);
```

```
        n = ps.executeUpdate();
```

```
    } catch (Exception e) {
```

```
        e.printStackTrace();
```

```
    }
```

```
    return n;
```

```
}
```

```
public Hotel searchHotel(int id) {
```

```
    try {
```

```
        String q = "select * from hotel_tbl where hotel_id = ?";
```

```
        PreparedStatement ps = con.prepareStatement(q);
```

```
        ps.setInt(1, id);
```

```
        ResultSet rs = ps.executeQuery();
```

```
        if(rs.next())
```

```
            return new Hotel(rs.getInt(1), rs.getString(2), rs.getString(3),
```

```
rs.getString(4), rs.getString(5), rs.getFloat(6));
```

```
    } catch (Exception e) {
```



```

        e.printStackTrace();

    }

    return null;

}

public int updateHotel(Hotel h) {

    int n = 0;

    try {

        String q = "update hotel_tbl set hotel_name = ?, address = ?, phone_no = ?, email =
?, rating = ? where hotel_id = ?";

        PreparedStatement ps = con.prepareStatement(q);

        ps.setString(1, h.getHotelName());

        ps.setString(2, h.getAddress());

        ps.setString(3, h.getPhoneNo());

        ps.setString(4, h.getEmail());

        ps.setFloat(5, h.getRating());

        ps.setInt(6, h.getHotelId());

        n = ps.executeUpdate();

    } catch (Exception e) {

        e.printStackTrace();

    }

    return n;

}

public List<Hotel> viewAllHotel(){

```

```

        list = new ArrayList<Hotel>();

        try {

            String q = "select * from hotel_tbl";

            PreparedStatement ps = con.prepareStatement(q);

            ResultSet rs = ps.executeQuery();

            while(rs.next())

                list.add(new Hotel(rs.getInt(1), rs.getString(2), rs.getString(3),
rs.getString(4), rs.getString(5), rs.getFloat(6)));

            } catch (Exception e) {

                e.printStackTrace();

            }

            return list;

        }

    public boolean deleteAllHotel(String pass) {

        boolean flag = false;

        try {

            String q="delete from hotel_tbl";

            Statement st = con.createStatement();

            if(DBUtil.password.equals(pass))

                flag = st.execute(q);

            } catch (Exception e) {

                e.printStackTrace();

            }

            return flag;

        }

    }
}

```

## Com.ofdm.main : OFDMMainClass.java

```
package com.ofdm.main;

import java.util.List;

import java.util.Scanner;

import com.ofdm.bean.Hotel;

import com.ofdm.dao.HotelDAO;

public class OFDMMainClass {

    private static Scanner sc = new Scanner(System.in);

    private static HotelDAO dao = new HotelDAO();

    public static int displayMenu() {

        System.out.println("1)Add Record\n2)Delete Record\n3)Search Record\n4)Update Record\n5)View All Record\n6)Delete All Record\n7)Quit\nEnter your Option");

        return sc.nextInt();

    }

    public static Hotel insertHotel() {

        System.out.println("Enter Hotel id, Hotel name, Address, Phone number, Email, Rating");

        return new Hotel(sc.nextInt(), sc.next(), sc.next(), sc.next(), sc.next(), sc.nextFloat());

    }

    public static int deleteHotel() {

        System.out.println("Enter Id :");

        return sc.nextInt();

    }

}
```

```
public static int searchHotel() {  
    System.out.println("Enter Id :");  
    return sc.nextInt();  
}  
  
public static Hotel updateHotel() {  
    System.out.println("Enter Hotel id :\nEnter Update details : Hotel name, Address, Phone  
number, Email, Rating");  
    return new Hotel(sc.nextInt(), sc.next(), sc.next(), sc.next(), sc.next(), sc.nextFloat());  
}  
  
public static String deleteAllHotel() {  
    System.out.println("Are you sure ? \nPlease Enter Database password to Continue : ");  
    return sc.next();  
}  
  
public static void main(String[] args) {  
  
    boolean decision = true;  
  
    System.out.println("Welcome to Online Food Delivery Management System\n");  
    do {  
  
        switch(displayMenu()) {  
  
            case 1 : {  
                Hotel h = insertHotel();  
                int n = dao.insertHotel(h);  
                if(n==1)  
                    System.out.println("Record Inserted Successfully");  
            }  
        }  
    }  
}
```

```
        else

            System.out.println("Insertion Process Failure");

        break;
    }

    case 2:{

        int id = deleteHotel();

        int n = dao.deleteHotel(id);

        if(n==1)

            System.out.println("Record Deleted Successfully");

        else

            System.out.println("Deletion Process Failure");

        break;
    }

    case 3:{

        int id = searchHotel();

        Hotel h = dao.searchHotel(id);

        if(h==null)

            System.out.println("Record Not Found!");

        else

            System.out.println("Record Found!\n"+h.getHotelId()+"
"+h.getHotelName()+" "+h.getAddress()+" "+h.getPhoneNo()+" "+h.getEmail()+" "+h.getRating());

        break;
    }

    case 4:{

        Hotel h = updateHotel();

        int n = dao.updateHotel(h);

        if(n==1)

            System.out.println("Record Updated Successfully");
```

```
        else

            System.out.println("Updation Process Failure");

        break;

    }

    case 5:{

        List<Hotel> list = dao.viewAllHotel();

        if(list.isEmpty())

            System.out.println("No Record Found!");

        else {

            System.out.println("Total No of Record : "+list.size()+"\n");

            for(Hotel h : list)

                System.out.println(h.getHotelId()+"

"+h.getHotelName()+" "+h.getAddress()+" "+h.getPhoneNo()+" "+h.getEmail()+" "+h.getRating());

        }

        break;

    }

    case 6:{

        String password = deleteAllHotel();

        boolean flag = dao.deleteAllHotel(password);

        if(!flag)

            System.out.println("All Record Deleted Successfully");

        else

            System.out.println("Deletion Process Failure");

        break;

    }

    case 7:{

        System.out.println("Are you confirm to quit ? [y/n]");

        char ch = sc.next().charAt(0);
```

```
        if(ch=='y')
            decision = false;
        else
            System.out.println("Quitting Canceled");
            break;
    }
    default: System.out.println("Invalid Option\nPlease Enter 1-7 only");
    }

    System.out.println("\n-----\n");

    } while(decision);

    System.out.println("Thank you for using this system");
}
}
```

## Output : CRUD Operation

### 1)Add Record -

```
Work Space - AssessmentCoreJava/src/com/ofdm/main/OFDMMainClass.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Console x
OFDMMainClass [Java Application] D:\eclipse-java-2023-09-R-win32-x86_64\eclipse\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64.jre\bin\java.exe
Welcome to Online Food Delivery Management System

1)Add Record
2)Delete Record
3)Search Record
4)Update Record
5)View All Record
6)Delete All Record
7)Quit
Enter your Option
1
Enter Hotel id, Hotel name, Address, Phone number, Email, Rating
1 ArunaHotel Thiruchy +911122334455 aruna@hotel.com 8.8
Record Inserted Successfully

-----

1)Add Record
2)Delete Record
3)Search Record
4)Update Record
5)View All Record
6)Delete All Record
7)Quit
Enter your Option
1
Enter Hotel id, Hotel name, Address, Phone number, Email, Rating
2 AdyarAnandhBhavan chennai +912233445566 a2b@hotel.com 9.2
Record Inserted Successfully

-----

1)Add Record
2)Delete Record
3)Search Record
4)Update Record
5)View All Record
6)Delete All Record
7)Quit
Enter your Option
1
Enter Hotel id, Hotel name, Address, Phone number, Email, Rating
3 1111111111111111 1111111111111111 1111111111111111 1111111111111111 7.5
<
```



OFDMMainClass [Java Application] D:\eclipse-java-2023-09-R-win32-x86\_64\eclipse\plugins\org.eclipse.j

```
1)Add Record
2)Delete Record
3)Search Record
4)Update Record
5)View All Record
6)Delete All Record
7)Quit
Enter your Option
```

1

Enter Hotel id, Hotel name, Address, Phone number, Email, Rating

3 RRBriyani Salem +919080706050 rrbriyani@hotel.com 7.5

Record Inserted Successfully

```
-----
1)Add Record
2)Delete Record
3)Search Record
4)Update Record
5)View All Record
6)Delete All Record
7)Quit
Enter your Option
```

5

Total No of Record : 3

```
1 ArunaHotel Thirchy +911122334455 aruna@hotel.com 8.8
2 AdyarAnandhBhavan chennai +912233445566 a2b@hotel.com 9.2
3 RRBriyani Salem +919080706050 rrbriyani@hotel.com 7.5
-----
```

## 2)Delete Record:

```
Console ×
OFDMMainClass [Java Application] D:\eclipse-java-2023-09-R-win32-x86_64\eclipse\plugi

-----

1)Add Record
2)Delete Record
3)Search Record
4)Update Record
5)View All Record
6)Delete All Record
7)Quit
Enter your Option
2
Enter Id :
2
Record Deleted Successfully

-----

1)Add Record
2)Delete Record
3)Search Record
4)Update Record
5)View All Record
6)Delete All Record
7)Quit
Enter your Option
5
Total No of Record : 2

1 ArunaHotel Thirchy +911122334455 aruna@hotel.com 8.8
3 RRBriyani Salem +919080706050 rrbriyani@hotel.com 7.5

-----
```

### 3)Search Record:

```
Console ×
OFDMMainClass [Java Application] D:\eclipse-java-2023-09-R-win32-x86_64\eclipse\plugins\org

-----

1)Add Record
2)Delete Record
3)Search Record
4)Update Record
5)View All Record
6)Delete All Record
7)Quit
Enter your Option
3
Enter Id :
1
Record Found!
1 ArunaHotel Thirchy +911122334455 aruna@hotel.com 8.8

-----

1)Add Record
2)Delete Record
3)Search Record
4)Update Record
5)View All Record
6)Delete All Record
7)Quit
Enter your Option
3
Enter Id :
2
Record Not Found!

-----
```

#### 4)Update Record :

```
Console ×
OFDMMainClass [Java Application] D:\eclipse-java-2023-09-R-win32-x86_64\eclipse\plugins\org.eclipse.

1)Add Record
2)Delete Record
3)Search Record
4)Update Record
5)View All Record
6)Delete All Record
7)Quit
Enter your Option
5
Total No of Record : 4

1 ArunaHotel Thirchy +911122334455 aruna@hotel.com 8.8
3 RRBriyani Salem +919080706050 rrbriyani@hotel.com 7.5
4 Thalapakatti Dindugal +911234567890 thalapakatti@hotel.com 8.5
5 HotelBurma Virudhunagar +919876543210 hotelburma@hotel.com 7.1

-----

1)Add Record
2)Delete Record
3)Search Record
4)Update Record
5)View All Record
6)Delete All Record
7)Quit
Enter your Option
4
Enter Hotel id :
Enter Update details : Hotel name, Address, Phone number, Email, Rating
1 ArunaMess Tirchy +919000000123 arunamess@hotel.com 9.0
Record Updated Successfully

-----

1)Add Record
2)Delete Record
3)Search Record
4)Update Record
```

```
Console ×
OFDMMainClass [Java Application] D:\eclipse-java-2023-09-R-win32-x86_64\eclipse\plugins\
Record Updated Successfully

-----

1)Add Record
2)Delete Record
3)Search Record
4)Update Record
5)View All Record
6)Delete All Record
7)Quit
Enter your Option
5
Total No of Record : 4

1 ArunaMess Tirchy +919000000123 arunamess@hotel.com 9.0
3 RRBriyani Salem +919080706050 rrbriyani@hotel.com 7.5
4 Thalapakatti Dindugal +911234567890 thalapakatti@hotel.com 8.5
5 HotelBurma Virudhunagar +919876543210 hotelburma@hotel.com 7.1

-----
```

## 5)View All Record :

```
-----

1)Add Record
2)Delete Record
3)Search Record
4)Update Record
5)View All Record
6)Delete All Record
7)Quit
Enter your Option
5
Total No of Record : 4

1 ArunaMess Tirchy +919000000123 arunamess@hotel.com 9.0
3 RRBriyani Salem +919080706050 rrbriyani@hotel.com 7.5
4 Thalapakatti Dindugal +911234567890 thalapakatti@hotel.com 8.5
5 HotelBurma Virudhunagar +919876543210 hotelburma@hotel.com 7.1

-----
```

## 6)Delete All :

```
-----  
1)Add Record  
2)Delete Record  
3)Search Record  
4)Update Record  
5)View All Record  
6)Delete All Record  
7)Quit  
Enter your Option  
6  
Are you sure ?  
Please Enter Database password to Continue :  
sanjay@42  
All Record Deleted Successfully  
  
-----
```

```
1)Add Record  
2)Delete Record  
3)Search Record  
4)Update Record  
5)View All Record  
6)Delete All Record  
7)Quit  
Enter your Option  
5  
No Record Found!  
  
-----
```

## 7) Quit :

```
1)Add Record
2)Delete Record
3)Search Record
4)Update Record
5)View All Record
6)Delete All Record
7)Quit
Enter your Option
7
Are you confirm to quit ? [y/n]
y
-----
Thank you for using this system
```

## Invalid Option in switch case :

```
-----
1)Add Record
2)Delete Record
3)Search Record
4)Update Record
5)View All Record
6)Delete All Record
7)Quit
Enter your Option
8
Invaild Option
Please Enter 1-7 only
-----
```