# Database Connectivity Project title - Hotel Management System

#### **Drive Link for Video Presentation -**

https://drive.google.com/file/d/1oJEsYrN6eUVA7T\_xCljDsaBHlpaTwxwY/view

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Batch - S3

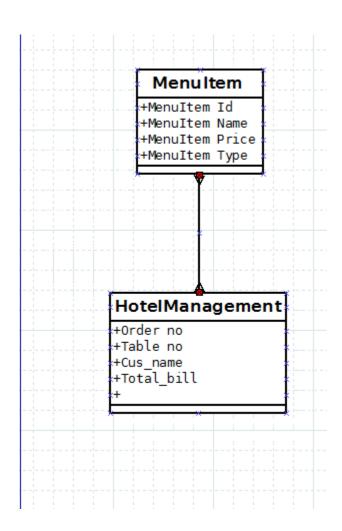
#### **About**

In this project we have implemented Hotel Management System to generate bills and maintain record of customers using JAVA and MySQL

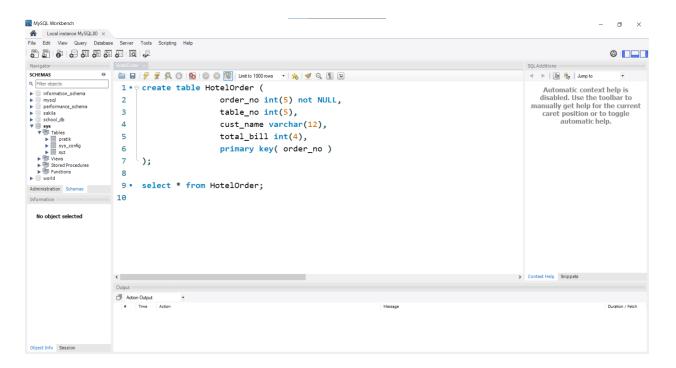
#### **Functionalities**

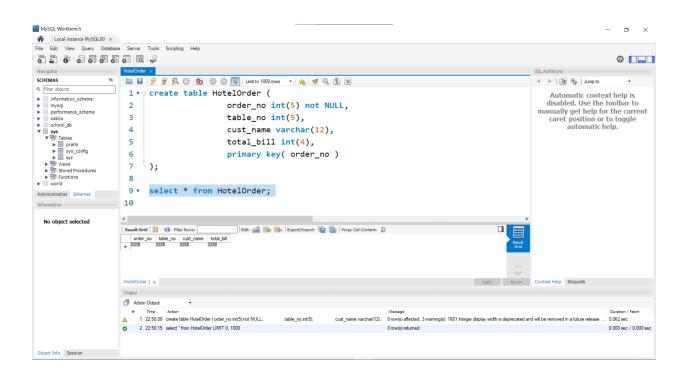
- 1. User can add Menu Items available in hotel and set their prices accordingly
- Bill is generated for every order bill amt can be calculated by just entering menu item code instead of typing complete name of menu item and total bill is calculated
- 3. Every order detail is stored in a database using JDBC that is this Java application connected to the database and all the entries get directly stored in the database
- 4. User can also update entries if any mistake happens while entering the data

# **Relational Model**



## **Output Screenshots -**





```
public static void main(String[] args) throws Exception
{
    int table_nox;
    int order_nox;
    String cus_namex;
    int tot_billx;

    String url = "jdbc:mysql://localhost:3306/sys";
    String uname = "root";
    String pass = "Mrunal123";

    Class.forName("com.mysql.cj.jdbc.Driver");
    System.out.println("Driver loaded successfully");
    Connection conn = DriverManager.getConnection(url, uname, pass);
    System.out.println("Connection Established");

    Statement stmt = conn.createStatement();
    tot_billx = generateBill();
    int table_nox;
    int tabl
```

```
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§ generateBill(): int

§ main(String[]): void

                          HotelManagement,
Main.java
MiniProject.java
Sis.java
Voyager.java
Welcome.java
                                                                                                                            © Console ≅
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          <terminated > HotelManagem
                                                                                                                                                                                                                       ent [Java Application] C:\Program Files\Java\idk-15.0.2\bin\iavaw.exe (Jun 11, 2021, 10:34:03 PM - 10:34:19 PM)
                                                                                                                            Driver loaded successfully
Connection Established
Enter Item Code :

▲ JRE System Library [JavaSE-15]
                 Neferenced Libraries
                                                                                                                            Enter Item Code :
                                                                                                                            Enter Item Code :
                                                                                                                            Enter Item Code :
                                                                                                                            Enter Order No. :
                                                                                                                             101
Enter Table Number :
                                                                                                                            201
--Inputed by User---
Inserting records into the table...
Displaying content of Table
Order No: 101, Table No: 201, Name: Neil Tyson, Total Bill: 100
Order No: 102, Table No: 202, Name: Mark Zuck, Total Bill: 200
Order No: 103, Table No: 203, Name: Albert Smith, Total Bill: 300
---
Updated Table
                                                                                                                                Order No: 101, Table No: 201, Name: Neil Tyson, Total Bill: 100
Order No: 102, Table No: 202, Name: Carl Sagan, Total Bill: 200
Order No: 103, Table No: 203, Name: Albert Smith, Total Bill: 300
```

### Source Code -:

```
import java.sql.*;
import java.util.*;
import java.io.*;
class MenuItem
 int price;
 int itemid;
 String menuName;
 String type;
 public MenuItem(int itemid, int price ,String menuName ,String type)
  this.price = price;
  this.menuName = menuName;
  this.type = type;
  this.itemid = itemid;
 public String getmenuName()
  return menuName;
 public int getPrice()
  return price;
 public String getType()
  return type;
 public int getitemid()
  return itemid;
 }
```

public class HotelManagement

```
{
 static int generateBill()
 {
   ArrayList<MenuItem> m = new ArrayList<MenuItem>();
    m.add(new MenuItem(0,100,"Veg Kolhapuri","Main Course"));
    m.add(new MenuItem(1,200, "Samosa", "Main Course"));
    m.add(new MenuItem(2,300,"Vadapav","Main Course"));
    m.add(new MenuItem(3,400,"Biryani","Main Course"));
    m.add(new MenuItem(4,500,"Dal Bhat","Main Course"));
   int id, p=0;
   Scanner sc = new Scanner(System.in);
   while(true)
   {
      System.out.println("Enter Item Code: ");
      id = sc.nextInt();
      if(id == -1)
       break;
      p += m.get(0).getPrice();
   return p;
 }
 public static void main(String[] args) throws Exception
 {
  int table nox;
  int order nox;
  String cus namex;
  int tot billx;
  String url = "jdbc:mysql://localhost:3306/sys";
  String uname = "root";
  String pass = "Mrunal123";
  Class.forName("com.mysql.cj.jdbc.Driver");
  System.out.println("Driver loaded successfully");
```

```
Connection conn = DriverManager.getConnection(url, uname, pass);
  System.out.println("Connection Established");
  Statement stmt = conn.createStatement();
  tot_billx = generateBill();
  //1. Insert
  // Inputed via User
  Scanner sc = new Scanner(System.in);
  System.out.println("Enter Customer Name: ");
  cus namex = sc.nextLine();
  System.out.println("Enter Order No.: ");
  order_nox = sc.nextInt();
  System.out.println("Enter Table Number: ");
  table nox = sc.nextInt();
  System.out.println("---Inputed by User---");
  // Inserted to Table (Database)
     System.out.println("Inserting records into the table...");
     String ins = "INSERT INTO HotelOrder(order no, table no, cust name,
total_bill) VALUES ("+order_nox+", "+table_nox+", "+cus_namex+",
"+tot billx+")";
    stmt.executeUpdate(ins);
  //2. Select
    // Displaying content of Table
    String disp = "select order no, table no, cust name, total bill from
HotelOrder":
     ResultSet rs = stmt.executeQuery(disp);
    while(rs.next()){
       //Display values
       System.out.print(" Order No: " + rs.getInt("order no"));
```

```
System.out.print(", Table No: " + rs.getInt("table_no"));
       System.out.print(", Name: " + rs.getString("cust_name"));
       System.out.println(", Total Bill: " + rs.getInt("total_bill"));
      }
     System.out.println("---Select Ended---");
  // Update
     String upd = "update HotelOrder" + "set cust_name = 'Rahul Sharma'
where order no=102";
     stmt.executeUpdate(upd);
              rs = stmt.executeQuery(disp);
      while(rs.next()){
       //Display values
       System.out.print(" Order No: " + rs.getInt("order_no"));
        System.out.print(", Table No: " + rs.getInt("table_no"));
        System.out.print(", Name: " + rs.getString("cust name"));
        System.out.println(", Total Bill: " + rs.getInt("total bill"));
     }
 }
}
```