

# Assignment 9

\*\*\*Video Demo Below

[https://drive.google.com/file/d/1GtRULrM4\\_D5Lp0WFX79dxKWGs-pPW2HO/view?usp=sharing](https://drive.google.com/file/d/1GtRULrM4_D5Lp0WFX79dxKWGs-pPW2HO/view?usp=sharing)

\*\*\*Screen shots below

Main menu

```
PS C:\Users\sakib\Downloads\Assignment9Program (4)\Assignment9Program> javac -cp ".;ojdbc8.jar" DBAdminUI.java
PS C:\Users\sakib\Downloads\Assignment9Program (4)\Assignment9Program> java -cp ".;ojdbc8.jar" DBAdminUI

==== Hotel Reservation System ===
1. Create all tables
2. Drop all tables
3. Populate tables
4. Create views
5. Drop views
6. Run advanced queries
7. Run search
8. Exit
Choose an option: |
```

## Create All Tables

```
Choose an option: 1

Creating all tables...
Created table ROOM_TYPE
Created table Customer
Created table Employee
Created table Room
Created table Service
Created table Booking
Created table Booking_Room
Created table Booking_Customer
Created table Payment
Created table Service_Booking
All tables created successfully.

==== Hotel Reservation System ====
1. Create all tables
2. Drop all tables
3. Populate tables
4. Create views
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Choose an option: |
```

## Create Views

```
Choose an option: 4

Creating views...
Created VIEW_BOOKING_WITH_CUSTOMERS
Created VIEW_ACTIVE_CUSTOMERS
Created VIEW_BOOKING_SERVICES
All views created successfully.

== Hotel Reservation System ==
1. Create all tables
2. Drop all tables
3. Populate tables
4. Create views
5. Drop views
6. Run advanced queries
7. Run search
8. Exit
Choose an option: |
```

## Populate Tables

```
Choose an option: 3

Populating tables with sample data...
Sample data inserted successfully.

== Hotel Reservation System ==
1. Create all tables
2. Drop all tables
3. Populate tables
4. Create views
5. Drop views
6. Run advanced queries
7. Run search
8. Exit
Choose an option: |
```

## Advanced Queries (AQ) Menu

```
Choose an option: 6

== Advanced Queries Menu ==
1. Customers with NO bookings
2. Employees with NO bookings OR only bookings with TotalPrice < 300
3. For each booking, count unique services (only where count >= 2)
4. Total quantity of each service across all bookings
5. Employees with bookings, excluding those earning >= 50000
6. Number of bookings per room type (only where > 0)
7. Back to main menu
Choose an option: |
```

### AQ1

```
Choose an option: 1
```

```
[Q1] Customers that have NOT made any bookings:
CustomerID=4, Name=Aisha Khan
```

### AQ2

```
Choose an option: 2
```

```
[Q2] Employees with NO bookings OR only bookings with TotalPrice < 300:
EmployeeID=2, Name=Brian Lee
EmployeeID=3, Name=Carlos Rivera
EmployeeID=4, Name=Diana Patel
EmployeeID=5, Name=Edward Brown
```

### AQ3

```
Choose an option: 3
```

```
[Q3] Bookings with COUNT(DISTINCT ServiceID) >= 2:
BookingID=1001, NumServices=2
```

AQ4

```
Choose an option: 4

[Q4] Total quantity of each service across all bookings:
ServiceID=1, Name=Breakfast Buffet, TotalQuantity=14
ServiceID=2, Name=Airport Shuttle, TotalQuantity=1
```

AQ5

```
Choose an option: 5

[Q5] Employees with at least one booking, but salary < 50000:
EmployeeID=1, Name=Alice Johnson
```

AQ6

```
Choose an option: 6

[Q6] Number of bookings associated with each room type (only > 0):
RoomTypeID=2, NumBookings=2
RoomTypeID=1, NumBookings=1
```

## Specific Record Search

Search Menu

```
Choose an option: 7

==== Search Menu ====
1. Search Customer by ID
2. Search Employee by ID
3. Search Room by ID
4. Search Booking by ID
5. Back to main menu
Choose an option: |
```

### Customer Search

```
Choose an option: 1
```

```
Enter CustomerID: 1
```

```
Searching Customer for CustomerID = 1
```

---

```
CUSTOMERID: 1
```

```
CUSNAME: John Smith
```

```
PHONENUM: 4161234567
```

```
EMAIL: john.smith@example.com
```

```
IDTYPE: Passport
```

### Employee Search

```
Choose an option: 2
```

```
Enter EmployeeID: 3
```

```
Searching Employee for EmployeeID = 3
```

---

```
EMPLOYEEID: 3
```

```
EMPNAME: Carlos Rivera
```

```
EMPROLE: Cook
```

```
PHONENUM: 4165551003
```

```
EMAIL: carlos.rivera@example.com
```

```
SALARY: 38000
```

Room Search

```
Choose an option: 3
```

```
Enter RoomID: 2
```

```
Searching Room for RoomID = 2
```

---

```
ROOMID: 2
```

```
ROOMNUM: 102
```

```
FLOOR: 1
```

```
ROOMTYPE: 2
```

```
PRICE: 180
```

```
STATUS: Available
```

Booking Search

```
Choose an option: 4
```

```
Enter BookingID: 1002
```

```
Searching Booking for BookingID = 1002
```

---

```
BOOKINGID: 1002
```

```
EMPLOYEEID: 4
```

```
NUMGUESTS: 1
```

```
CHECKIN: 2025-11-10 00:00:00
```

```
CHECKOUT: 2025-11-12 00:00:00
```

```
STATUS: Confirmed
```

```
TOTALPRICE: 240
```

## Drop All Views

```
Choose an option: 5

Dropping all views...
Dropped VIEW_BOOKING_WITH_CUSTOMERS
Dropped VIEW_ACTIVE_CUSTOMERS
Dropped VIEW_BOOKING_SERVICES
Done attempting to drop views.
```

## Drop All Tables

```
Choose an option: 2

Dropping all tables...
Dropped table BOOKING
Dropped table CUSTOMER
Dropped table ROOM
Dropped table EMPLOYEE
Dropped table SERVICE
Dropped table BOOKING_ROOM
Dropped table BOOKING_CUSTOMER
Dropped table PAYMENT
Dropped table SERVICE_BOOKING
Dropped table ROOM_TYPE
Done attempting to drop tables.
```

## Exit

```
Choose an option: 8
Exiting...
PS C:\Users\sakib\Downloads\Assignment9Program (4)\Assignment9Program> |
```