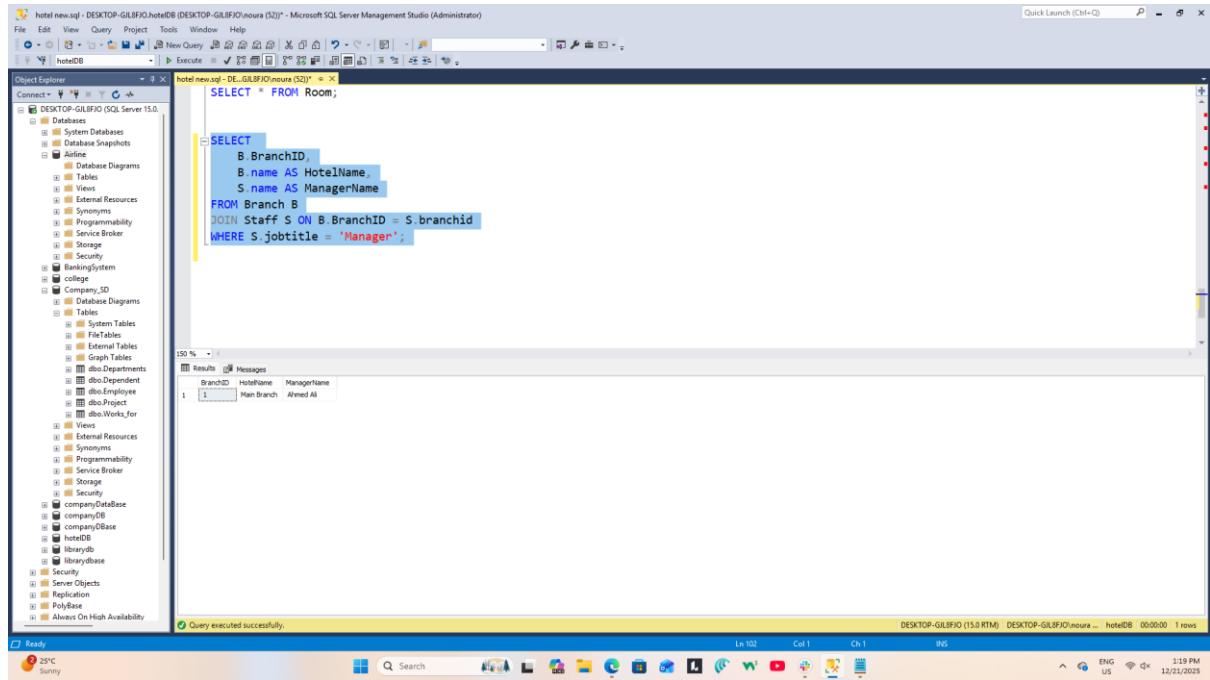


Hotel Database – JOIN Queries

1. Display hotel ID, name, and the name of its manager.



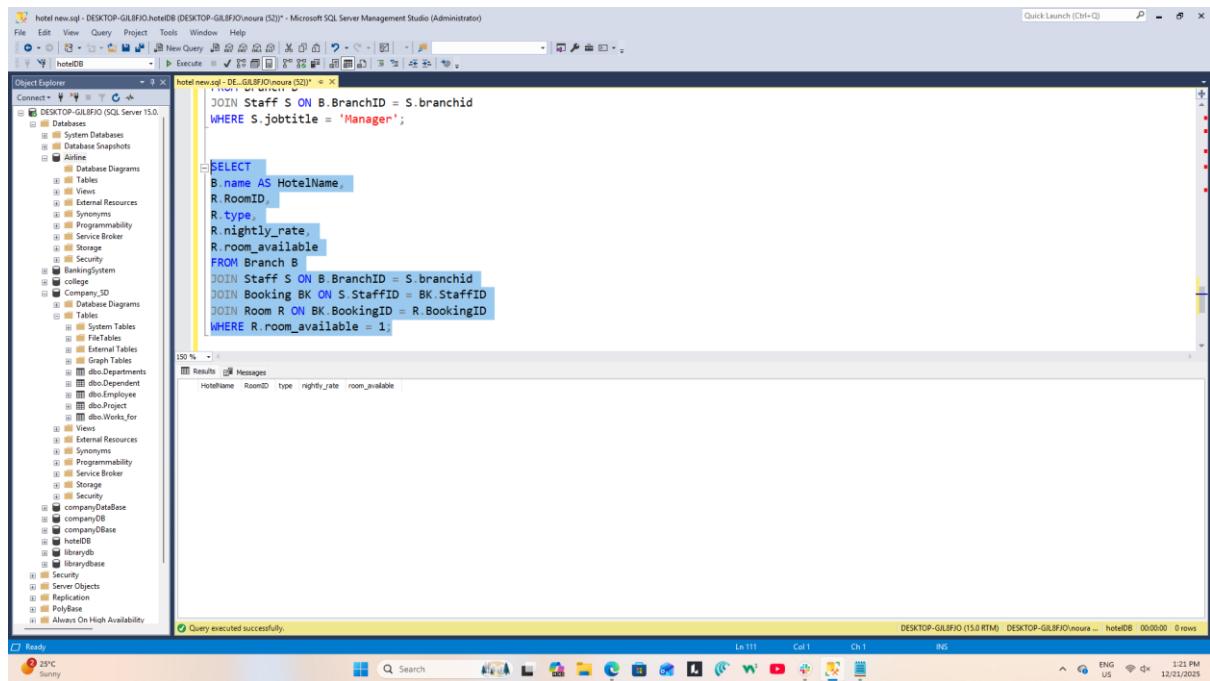
```
SELECT * FROM Room;
```

```
SELECT
    B.BranchID,
    B.name AS HotelName,
    S.name AS ManagerName
FROM Branch B
JOIN Staff S ON B.BranchID = S.branchid
WHERE S.jobtitle = 'Manager';
```

BranchID	HotelName	ManagerName
1	Main Branch	Ahmed Ali

Query executed successfully.

2. Display hotel names and the rooms available under them.



```
SELECT Staff S ON B.BranchID = S.branchid
WHERE S.jobtitle = 'Manager';
```

```
SELECT
    B.name AS HotelName,
    R.RoomID,
    R.type,
    R.nightly_rate,
    R.room_available
FROM Branch B
JOIN Staff S ON B.BranchID = S.branchid
JOIN Booking BK ON S.StaffID = BK.StaffID
JOIN Room R ON BK.BookingID = R.BookingID
WHERE R.room_available = 1;
```

HotelName	RoomID	type	nightly_rate	room_available

Query executed successfully.

3. Display guest data along with the bookings they made.

4. Display bookings for hotels in Muscat or Salalah

The screenshot shows the Microsoft SQL Server Management Studio interface. The title bar indicates the connection is to 'DESKTOP-GILBFIO\jounara (S2)' as 'Microsoft SQL Server Management Studio (Administrator)'. The left sidebar is the Object Explorer, showing the database structure for 'DESKTOP-GILBFIO\jounara (S2)'. The main pane displays a T-SQL query being executed:

```
SELECT
    BK.BookingID,
    C.name AS GuestName,
    B.name AS HotelName,
    B.location,
    BK.check_in_date,
    BK.check_out_date
FROM Booking BK
JOIN Customer C ON BK.CusID = C.CusID
JOIN Staff S ON BK.StaffID = S.StaffID
JOIN Branch B ON S.branchid = B.BranchID
WHERE B.location IN ('Muscat', 'Salalah');
```

The results pane shows the following data:

	BookingID	GuestName	HotelName	location	check_in_date	check_out_date
1	1	All Hassan	Men Branch	Muscat	2025-01-15	2025-01-15
2	3	Omar Said	Men Branch	Muscat	2025-01-20	2025-01-25

The status bar at the bottom left shows 'Query executed successfully.' and the bottom right shows 'DESKTOP-GILBFIO (15.0 RTM) DESKTOP-GILBFIO\jounara ... hotelDB 00:00:00 2 rows'.

5. Display all room records where room type starts with "S" (e.g., "Suite", "Single").

hotel new.sql - DESKTOP-GILBFIQ.hotelDB (DESKTOP-GILBFIQ\mousra (52)) - Microsoft SQL Server Management Studio (Administrator)

```

SELECT *
FROM Room
WHERE type LIKE 'S%';

```

Results

RoomID	type	nightly_rate	BookingID	CustID	room_available
1	Single	45.00	1	1	0
2	Suite	120.00	3	3	0
3	Single	45.00	NULL	NULL	1

Query executed successfully.

6. List guests who booked rooms priced between 1500 and 2500 LE.

hotel new.sql - DESKTOP-GILBFIQ.hotelDB (DESKTOP-GILBFIQ\mousra (52)) - Microsoft SQL Server Management Studio (Administrator)

```

SELECT *
FROM Room
WHERE type LIKE 'S%';

SELECT DISTINCT
C.CusID,
C.name AS GuestName
FROM Customer C
JOIN Room R ON C.CusID = R.CusID
WHERE R.nightly_rate BETWEEN 1500 AND 2500;

```

Results

CustID	GuestName
--------	-----------

Query executed successfully.

7. Retrieve guest names who have bookings marked as 'Confirmed' in hotel " Airport Branch".

The screenshot shows the Microsoft SQL Server Management Studio interface. The Object Explorer on the left lists several databases, including 'DESKTOP-GILBFJ0.lounura (S2)'. The 'Booking' database is selected. The 'Tables' node under 'Booking' contains 'Customer', 'Booking', 'Staff', 'Branch', and 'Guest'. The 'Customer' table is currently selected. The 'Script' tab in the top ribbon is active, displaying the following T-SQL code:

```
WHERE R.nightly_rate BETWEEN 1500 AND 2500;

ALTER TABLE Booking ADD status NVARCHAR(20) DEFAULT 'Pending';

SELECT DISTINCT
    C.name AS GuestName
FROM Customer C
JOIN Booking BK ON C.CusID = BK.CusID
JOIN Staff S ON BK.StaffID = S.StaffID
JOIN Branch B ON S.branchid = B.BranchID
WHERE B.name = 'Airport Branch'
AND BK.status = 'Confirmed';
```

The results pane below shows a single row of data:

GuestName
John Doe

A status bar at the bottom indicates 'Query executed successfully.'

8. Find guests whose bookings were handled by staff member "Mona Ali".

The screenshot shows the Microsoft SQL Server Management Studio (Administrator) interface. The Object Explorer on the left lists several databases, including 'DESKTOP-GILBFJ0.hotelDB' and 'DESKTOP-GILBFJ0.inoura'. The 'Results' tab in the center displays the output of a query:

```
WHERE B.name = 'Airport Branch'  
AND BK.status = 'Confirmed';  
  
SELECT DISTINCT  
C.name AS GuestName  
FROM Customer C  
JOIN Booking BK ON C.CusID = BK.CusID  
JOIN Staff S ON BK.StaffID = S.StaffID  
WHERE S.name = 'Mona Ali';
```

The results table shows one row with 'GuestName' as 'Mona Ali'. At the bottom, a status bar indicates 'Query executed successfully.' and other system information.

9. Display each guest's name and the rooms they booked, ordered by room type.

hotel new.sql - DESKTOP-GILBFJ0\moursa (S2) - Microsoft SQL Server Management Studio (Administrator)

```

SELECT
    C.name AS GuestName,
    R.RoomID,
    R.type,
    R.nightly_rate
FROM Customer C
JOIN Room R ON C.CusID = R.CusID
ORDER BY R.type;

```

Results

	GuestName	RoomID	type	nightly_rate
1	Sara Ahmed	2	Double	70.00
2	Ali Hassan	1	Single	45.00
3	Omra Sad	3	Suite	120.00

Query executed successfully.

10. For each hotel in 'Seeb', display hotel ID, name, manager name, and contact info.

hotel new.sql - DESKTOP-GILBFJ0\moursa (S2) - Microsoft SQL Server Management Studio (Administrator)

```

SELECT
    B.BranchID,
    B.name AS HotelName,
    S.name AS ManagerName,
    S.salary,
    S.jobtitle
FROM Branch B
JOIN Staff S ON B.BranchID = S.branchid
WHERE B.location = 'Seeb' AND S.jobtitle = 'Manager';

```

Results

	BranchID	HotelName	ManagerName	salary	jobtitle
--	----------	-----------	-------------	--------	----------

Query executed successfully.

11. Display all staff members who hold 'Manager' positions.

Object Explorer shows the database structure, including tables like Staff, Branch, and BranchStaff.

```

FROM Branch B
JOIN Staff S ON B.BranchID = S.branchid
WHERE B.location = 'Seeb' AND S.jobtitle = 'Manager';

SELECT *
FROM Staff
WHERE jobtitle = 'Manager';

```

Results grid:

StaffID	name	salary	jobtitle	branchid
1	Ahmed Ali	800.00	Manager	1

Message bar: Query executed successfully.

12. Display all guests and their reviews, even if some guests haven't submitted any reviews

Object Explorer shows the database structure, including tables like Customer, Review, and Booking.

```

CREATE TABLE Review (
    ReviewID INT IDENTITY(1,1) PRIMARY KEY,
    CusID INT,
    BookingID INT,
    review_text NVARCHAR(500),
    FOREIGN KEY (CusID) REFERENCES Customer(CusID),
    FOREIGN KEY (BookingID) REFERENCES Booking(BookingID)
);

SELECT
    C.name AS GuestName,
    R.review_text
FROM Customer C
LEFT JOIN Review R ON C.CusID = R.CusID;

```

Results grid:

GuestName	review_text
Ali Hassan	NULL
Sara Ahmed	NULL
Omar Sad	NULL
Noor Salim	NULL

Message bar: Query executed successfully.