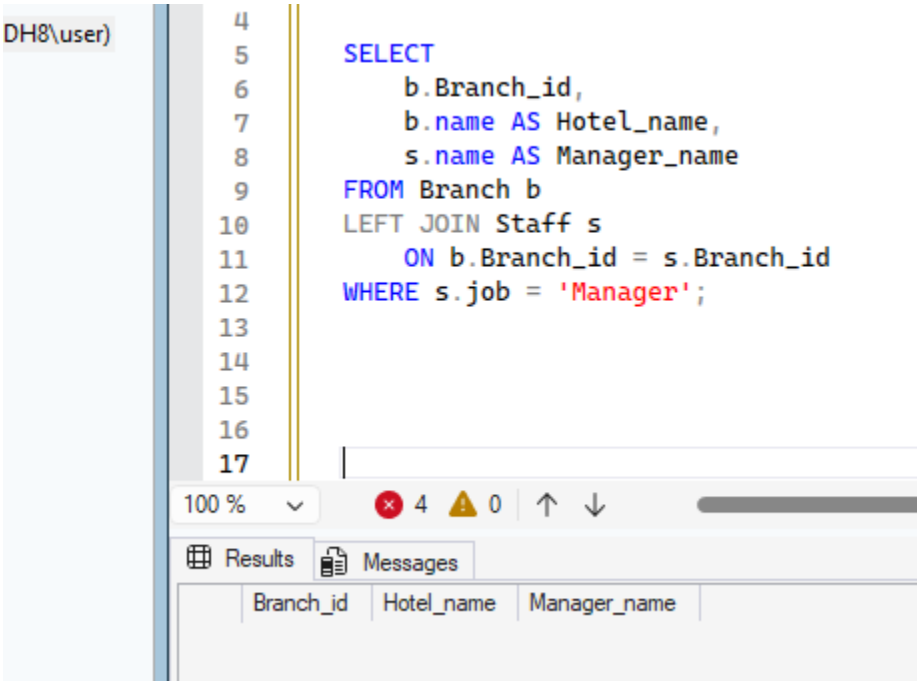
Hotel Database – JOIN Queries

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



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

```sql
SELECT
    b.name AS Hotel_name,
    r.Room_num,
    r.Room_type,
    r.Nightly_rate
FROM Branch b
JOIN Room r
    ON b.Branch_id = r.Branch_id
ORDER BY b.name, r.Room_num;
```

100 % 5 0

Results Messages

	Hotel_name	Room_num	Room_type	Nightly_rate
1	Airport Branch	201	Suite	165.00
2	Airport Branch	205	Suite	1200.00
3	Downtown Branch	101	Single	50.00
4	Downtown Branch	102	Double	80.00

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

```sql
SELECT
    c.Customer_id,
    c.name AS Guest_name,
    c.phone,
    c.email,
    b.Booking_id,
    b.Check_in,
    b.Checkout,
    b.status,
    b.total_cost
FROM Customer c
LEFT JOIN Booking b
    ON c.Customer_id = b.Customer_id
ORDER BY c.Customer_id;
```

100 % 4 0

Results Messages

	Customer_id	Guest_name	phone	email	Booking_id	Check_in	Checkout	status	total_cost
1	1	Alice Smith	555-1234	alice@example.com	1	2025-12-20	2025-12-25	NULL	NULL
2	2	Bob Johnson	555-5678	bob@example.com	2	2025-12-24	2025-12-28	NULL	NULL
3	9011	malak	555-0000	mkmalaufi@gmail.com	1001	2025-12-20	2025-12-25	Confirmed	1200.00
4	9012	Guest Two	NULL	NULL	NULL	NULL	NULL	NULL	NULL

4. Display bookings for hotels in 'Hurghada' or 'Sharm El Sheikh'.

```sql
SELECT
    bo.Booking_id,
    c.name AS Guest_name,
    r.Room_num,
    r.Room_type,
    b.name AS Hotel_name,
    b.location
FROM Booking bo
-- Only include customers who have bookings → INNER JOIN
INNER JOIN Customer c
    ON bo.Customer_id = c.Customer_id

-- Only include bookings that have rooms → INNER JOIN
INNER JOIN Booking_room br
```

100 % 4 0

Results Messages

Booking_id	Guest_name	Room_num	Room_type	Hotel_name	location

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

```sql
5. Display all room records where

SELECT *
FROM Room
WHERE Room_type LIKE 'S%';
```

100 % 5 0

Results Messages

	Room_num	Room_type	Nightly_rate	Branch_id
1	101	Single	50.00	1
2	201	Suite	165.00	2
3	205	Suite	1200.00	2

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

```sql
-----p. List guests who booked rooms priced between 1500 and 25

SELECT DISTINCT
    c.Customer_id,
    c.name AS Guest_name,
    c.phone,
    c.email
FROM Customer c
inner JOIN Booking b ON c.Customer_id = b.Customer_id
inner JOIN Booking_room br ON b.Booking_id = br.Booking_id
inner JOIN Room r ON br.Room_num = r.Room_num
WHERE r.Nightly_rate BETWEEN 1500 AND 2500;
```

5 0

sults | Messages

Customer_id	Guest_name	phone	email

7. Retrieve guest names who have bookings marked as 'Confirmed' in hotel "Hilton Downtown".

```sql
94
95      SELECT DISTINCT
96          c.name AS Guest_name
97      FROM Customer c
98      -- Only include customers who have bookings → INNER JOIN
99      INNER JOIN Booking b ON c.Customer_id = b.Customer_id
100
101     -- Only include bookings linked to rooms → INNER JOIN
102     INNER JOIN Booking_room br ON b.Booking_id = br.Booking_id
103
104     -- Only include rooms assigned to bookings → INNER JOIN
105     INNER JOIN Room r ON br.Room_num = r.Room_num
106
107     -- Only include branches (hotels) for these rooms → INNER JOIN
```

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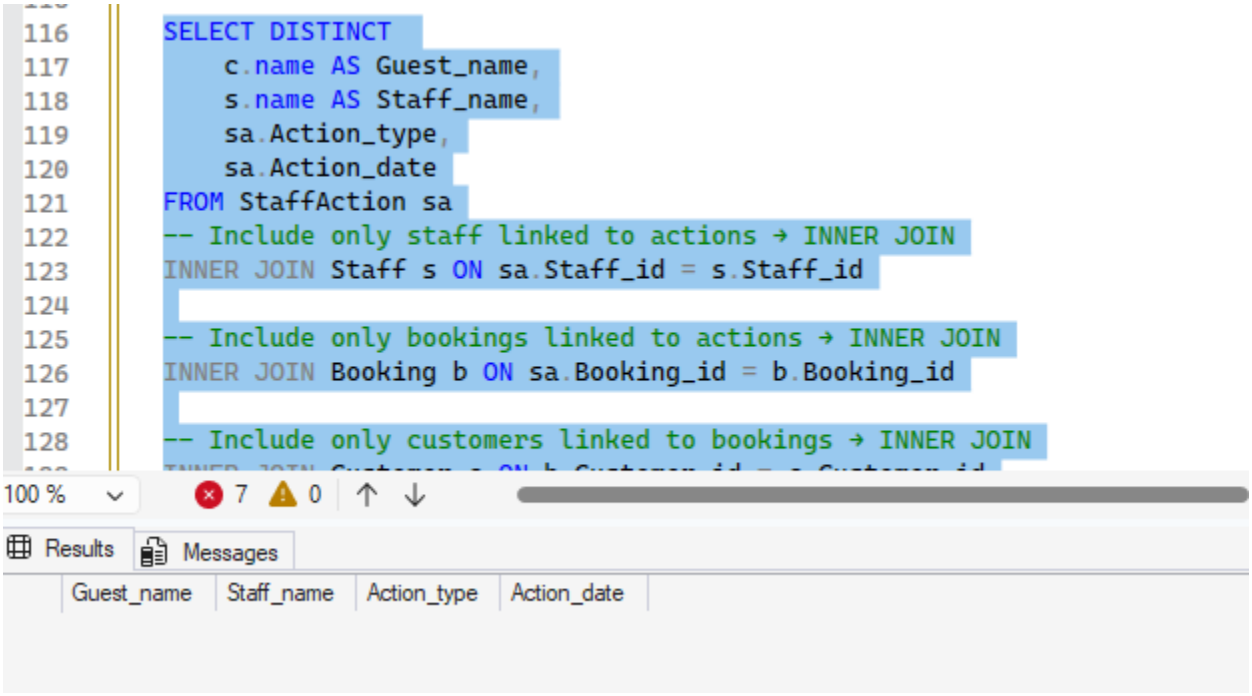
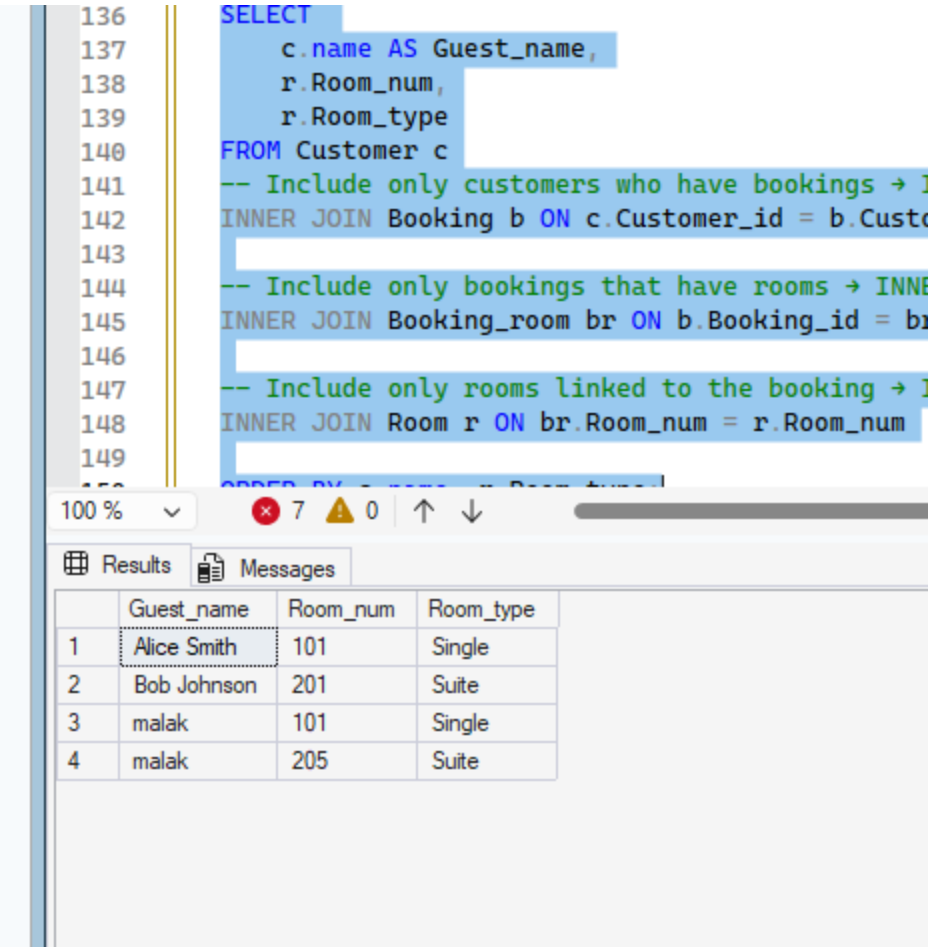
Results | Messages

Guest_name

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



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



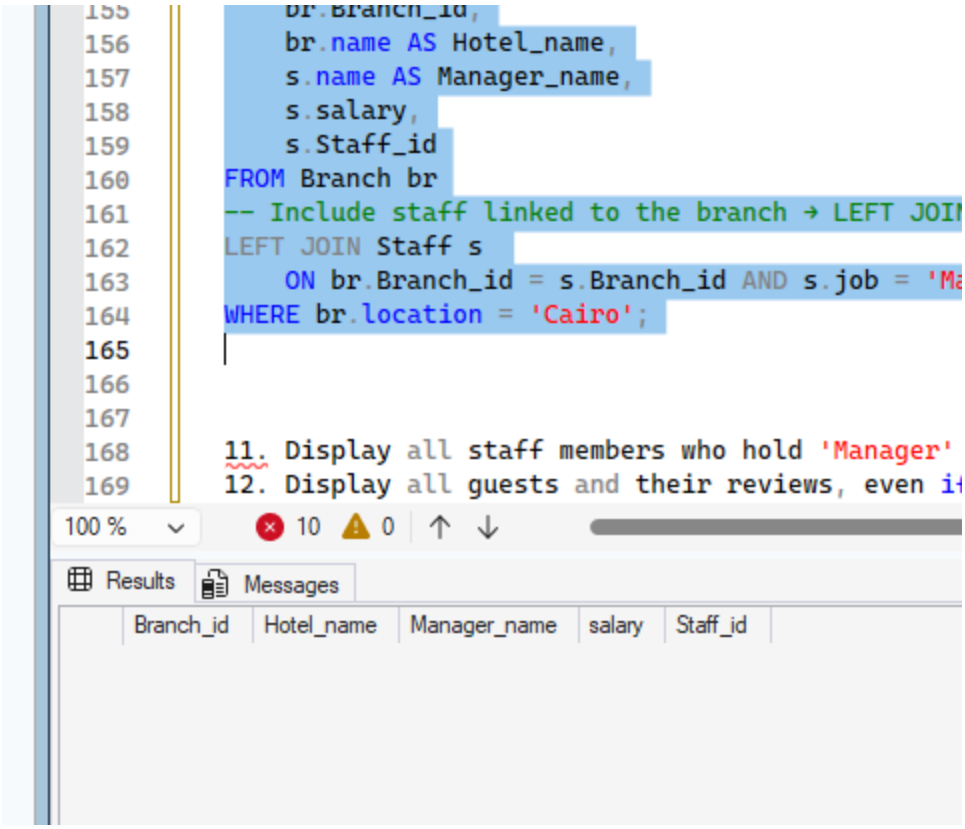
```
SELECT
    c.name AS Guest_name,
    r.Room_num,
    r.Room_type
FROM Customer c
-- Include only customers who have bookings → I
INNER JOIN Booking b ON c.Customer_id = b.Custo

-- Include only bookings that have rooms → INNE
INNER JOIN Booking_room br ON b.Booking_id = br

-- Include only rooms linked to the booking → I
INNER JOIN Room r ON br.Room_num = r.Room_num
```

100 % 7 0

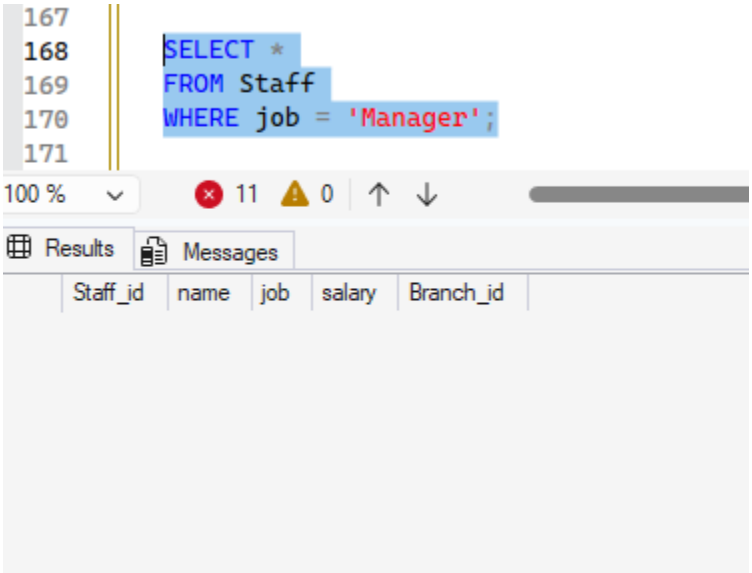
Results Messages

	Guest_name	Room_num	Room_type
1	Alice Smith	101	Single
2	Bob Johnson	201	Suite
3	malak	101	Single
4	malak	205	Suite

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



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



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

```sql
CREATE TABLE Review (
    Review_id INT PRIMARY KEY,
    Customer_id INT,
    Booking_id INT,
    Review_text NVARCHAR(255),
    Rating INT,
    FOREIGN KEY (Customer_id) REFERENCES Customer(Customer
    FOREIGN KEY (Booking_id) REFERENCES Booking(Booking_ic
);

SELECT
    c.name AS Guest_name,
    r.Review_text,
```

100 % 10 0

Results Messages

	Customer_name	Review_text	Rating
1	Alice Smith	NULL	NULL
2	Bob Johnson	NULL	NULL
3	malak	NULL	NULL
4	Guest Two	NULL	NULL