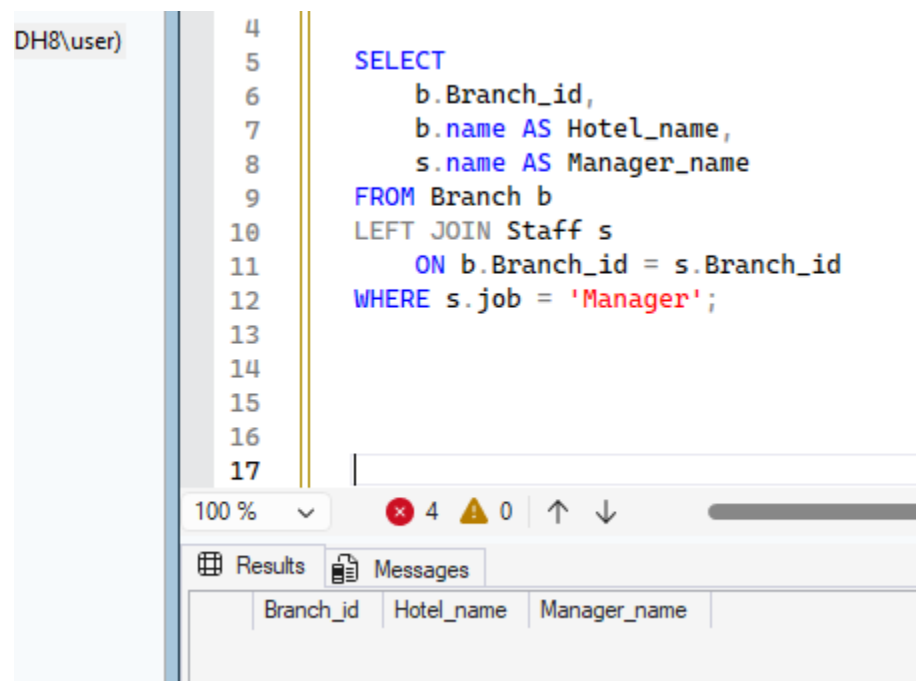


Hotel Database – JOIN Queries

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



The screenshot shows a SQL query editor with a query window on the left and a results/messages pane on the right. The query is as follows:

```
4  
5 SELECT  
6     b.Branch_id,  
7     b.name AS Hotel_name,  
8     s.name AS Manager_name  
9 FROM Branch b  
10 LEFT JOIN Staff s  
11     ON b.Branch_id = s.Branch_id  
12 WHERE s.job = 'Manager';  
13  
14  
15  
16  
17
```

The results pane shows a table with the following columns:

Branch_id	Hotel_name	Manager_name
-----------	------------	--------------

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

```

15
16 SELECT
17     b.name AS Hotel_name,
18     r.Room_num,
19     r.Room_type,
20     r.Nightly_rate
21 FROM Branch b
22 JOIN Room r
23     ON b.Branch_id = r.Branch_id
24 ORDER BY b.name, r.Room_num;
25

```

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.

```

28 SELECT
29     c.Customer_id,
30     c.name AS Guest_name,
31     c.phone,
32     c.email,
33     b.Booking_id,
34     b.Check_in,
35     b.Checkout,
36     b.status,
37     b.total_cost
38 FROM Customer c
39 LEFT JOIN Booking b
40     ON c.Customer_id = b.Customer_id
41 ORDER BY c.Customer_id;
42

```

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'.

```

44
45     SELECT
46         bo.Booking_id,
47         c.name AS Guest_name,
48         r.Room_num,
49         r.Room_type,
50         b.name AS Hotel_name,
51         b.location
52     FROM Booking bo
53     -- Only include customers who have bookings → INNER JOIN
54     INNER JOIN Customer c
55         ON bo.Customer_id = c.Customer_id
56
57     -- Only include bookings that have rooms → INNER JOIN
58     INNER JOIN Booking_room br
59         ON br.Booking_id = bo.Booking_id

```

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").

```

73
74     5. Display all room records where
75
76     SELECT *
77     FROM Room
78     WHERE Room_type LIKE 'S%';
79
80

```

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.

```
-----p. List guests who booked rooms priced between 1500 and 2500

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;
```

Results Messages

Customer_id	Guest_name	phone	email
-------------	------------	-------	-------

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

```
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
```

00 % Results Messages

Guest_name

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

```
116 SELECT DISTINCT
117     c.name AS Guest_name,
118     s.name AS Staff_name,
119     sa.Action_type,
120     sa.Action_date
121 FROM StaffAction sa
122 -- Include only staff linked to actions → INNER JOIN
123 INNER JOIN Staff s ON sa.Staff_id = s.Staff_id
124
125 -- Include only bookings linked to actions → INNER JOIN
126 INNER JOIN Booking b ON sa.Booking_id = b.Booking_id
127
128 -- Include only customers linked to bookings → INNER JOIN
129 INNER JOIN Customer c ON b.Customer_id = c.Customer_id
```

100 % 7 0

Results Messages

Guest_name	Staff_name	Action_type	Action_date
------------	------------	-------------	-------------

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

```
136 SELECT
137     c.name AS Guest_name,
138     r.Room_num,
139     r.Room_type
140 FROM Customer c
141 -- Include only customers who have bookings → INNER JOIN
142 INNER JOIN Booking b ON c.Customer_id = b.Customer_id
143
144 -- Include only bookings that have rooms → INNER JOIN
145 INNER JOIN Booking_room br ON b.Booking_id = br.Booking_id
146
147 -- Include only rooms linked to the booking → INNER JOIN
148 INNER JOIN Room r ON br.Room_num = r.Room_num
149
150 ORDER BY Guest_name, Room_num, Room_type
```

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.

```

155     br.Branch_id,
156     br.name AS Hotel_name,
157     s.name AS Manager_name,
158     s.salary,
159     s.Staff_id
160 FROM Branch br
161 -- Include staff linked to the branch → LEFT JOIN
162 LEFT JOIN Staff s
163     ON br.Branch_id = s.Branch_id AND s.job = 'Manager'
164 WHERE br.location = 'Cairo';
165
166
167
168 11. Display all staff members who hold 'Manager'
169 12. Display all guests and their reviews, even if

```

100 % 10 0

Branch_id	Hotel_name	Manager_name	salary	Staff_id
-----------	------------	--------------	--------	----------

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

```

167
168 SELECT *
169 FROM Staff
170 WHERE job = 'Manager';
171

```

100 % 11 0

Staff_id	name	job	salary	Branch_id
----------	------	-----	--------	-----------

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

```

173 CREATE TABLE Review (
174     Review_id INT PRIMARY KEY,
175     Customer_id INT,
176     Booking_id INT,
177     Review_text NVARCHAR(255),
178     Rating INT,
179     FOREIGN KEY (Customer_id) REFERENCES Customer(Customer_id),
180     FOREIGN KEY (Booking_id) REFERENCES Booking(Booking_id)
181 );
182
183 SELECT
184     c.name AS Guest_name,
185     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