Results from two SQL queries can be combined in different ways, depending on the data relationship and what you want to achieve. For instance:

- **UNION** combines rows from both queries vertically, returning a unified result set of unique rows.
- **JOIN** combines rows horizontally based on related columns, allowing you to retrieve related data from two tables.
- **INTERSECT** and **EXCEPT** are also used to combine results in a way that filters data based on similarities or differences between datasets.

INTERSECT: Returns only the rows that appear in both SELECT queries, effectively finding common data between the two datasets.

EXCEPT: Returns only the rows from the first SELECT query that are not present in the second, effectively finding unique data in the first dataset.

```
6.7

Select *

From Hotel

6.8

Select *

from Hotel

where city = 'London';

6.9

select guest_name, guest_address
from guest
where guest_address LIKE '%London'
order by guest_name;
```

```
6.10
select *
from room
where type = 'Double' or type = 'Family'
and price < 40
order by price asc;
6.11
select *
from booking
where date_to is null;
6.12
select count(*) as hotel_count
from hotel;
6.13
select avg(price) as room_avg_price
from room;
6.14
select sum(price) as total_revenue
from room
where type = 'Double';
```

```
6.15
select count(distinct guest_no) as total_guests_august
from booking
where date_from between '2024-08-1' and '2024-08-31';
6.16
select type, price
from ROOM
where HOTEL_NO =
                        (
                        select HOTEL_NO
                       from HOTEL
                       where HOTEL_NAME = 'Grosvenor'
                       );
6.17
SELECT GUEST_NAME, GUEST_ADDRESS
FROM GUEST
JOIN BOOKING ON GUEST.GUEST_NO = BOOKING.GUEST_NO
WHERE BOOKING.HOTEL_NO = (SELECT HOTEL_NO FROM HOTEL WHERE HOTEL_NAME
= 'Grosvenor')
AND GETDATE() BETWEEN BOOKING.DATE_FROM AND BOOKING.DATE_TO;
```

```
6.18
```

SELECT ROOM.ROOM_NO, ROOM.TYPE, ROOM.PRICE, GUEST.GUEST_NAME

FROM ROOM

LEFT JOIN BOOKING ON ROOM.ROOM NO = BOOKING.ROOM NO

AND ROOM.HOTEL_NO = BOOKING.HOTEL_NO

LEFT JOIN GUEST ON BOOKING.GUEST_NO = GUEST.GUEST_NO

WHERE ROOM.HOTEL_NO = (SELECT HOTEL_NO FROM HOTEL WHERE HOTEL_NAME = 'Grosvenor');

6.19

SELECT SUM(ROOM.PRICE) AS Total_Income_Today

FROM ROOM

JOIN BOOKING ON ROOM.ROOM_NO = BOOKING.ROOM_NO

WHERE BOOKING.HOTEL_NO = (SELECT HOTEL_NO FROM HOTEL WHERE HOTEL_NAME = 'Grosvenor')

AND GETDATE() BETWEEN BOOKING.DATE FROM AND BOOKING.DATE TO;

6.22

SELECT HOTEL_NO, COUNT(*) AS Room_Count

FROM ROOM

GROUP BY HOTEL_NO;

6.23

SELECT ROOM.HOTEL_NO, COUNT(*) AS Room_Count

FROM ROOM

JOIN HOTEL ON ROOM.HOTEL_NO = HOTEL.HOTEL_NO

WHERE HOTEL.CITY = 'London'

GROUP BY ROOM.HOTEL_NO;

```
6.24
```

```
SELECT HOTEL_NO, AVG(Booking_Count) AS Avg_Bookings_August
FROM (
 SELECT HOTEL_NO, COUNT(*) AS Booking_Count
 FROM BOOKING
 WHERE MONTH(DATE_FROM) = 8 AND MONTH(DATE_TO) = 8
 GROUP BY HOTEL_NO, GUEST_NO
) AS AugustBookings
GROUP BY HOTEL_NO;
6.27
INSERT INTO HOTEL (HOTEL_NO, HOTEL_NAME, CITY)
VALUES
 (1, 'Grosvenor', 'London'),
 (2, 'Marriott', 'Manchester'),
 (3, 'Hilton', 'London'),
 (4, 'Holiday Inn', 'Birmingham');
INSERT INTO ROOM (ROOM_NO, HOTEL_NO, TYPE, PRICE)
VALUES
 (101, 1, 'Single', 120.00),
 (102, 1, 'Double', 180.00),
 (103, 2, 'Suite', 300.00),
 (104, 3, 'Family', 250.00),
 (105, 4, 'Double', 150.00);
```

```
INSERT INTO GUEST (GUEST_NO, GUEST_NAME, GUEST_ADDRESS)
VALUES
 (201, 'Alice Smith', '123 Elm St, London'),
 (202, 'John Doe', '456 Oak St, Manchester'),
 (203, 'Emily Jones', '789 Pine St, London'),
 (204, 'Michael Brown', '321 Maple Ave, Birmingham');
INSERT INTO BOOKING (HOTEL_NO, GUEST_NO, DATE_FROM, DATE_TO, ROOM_NO)
VALUES
 (1, 201, '2024-10-01', '2024-10-05', 101),
 (2, 202, '2024-10-10', '2024-10-12', 103),
 (1, 203, '2024-10-15', '2024-10-20', 102),
 (3, 204, '2024-10-25', '2024-10-30', 104);
6.28
UPDATE ROOM
SET PRICE = PRICE * 1.10;
6.20
SELECT ROOM.ROOM_NO, ROOM.TYPE, ROOM.PRICE
FROM ROOM
LEFT JOIN BOOKING ON ROOM.ROOM_NO = BOOKING.ROOM_NO
AND ROOM.HOTEL_NO = BOOKING.HOTEL_NO
WHERE ROOM.HOTEL_NO = (SELECT HOTEL_NO FROM HOTEL WHERE HOTEL_NAME =
'Grosvenor')
AND (BOOKING.DATE_FROM IS NULL OR GETDATE() NOT BETWEEN
```

BOOKING.DATE_FROM AND BOOKING.DATE_TO);

```
6.21
SELECT SUM(PRICE) AS Lost_Income
FROM ROOM
WHERE HOTEL NO = (SELECT HOTEL NO FROM HOTEL WHERE HOTEL NAME =
'Grosvenor')
AND ROOM_NO NOT IN (
  SELECT ROOM NO
  FROM BOOKING
  WHERE HOTEL NO = (SELECT HOTEL NO FROM HOTEL WHERE HOTEL NAME =
'Grosvenor')
  AND GETDATE() BETWEEN DATE_FROM AND DATE_TO
);
6.25
SELECT HOTEL.HOTEL NO, ROOM.TYPE, COUNT(ROOM.TYPE) AS Booking Count
FROM ROOM
JOIN BOOKING ON ROOM.ROOM_NO = BOOKING.ROOM_NO
JOIN HOTEL ON ROOM.HOTEL_NO = HOTEL.HOTEL_NO
WHERE HOTEL.CITY = 'London'
GROUP BY HOTEL.HOTEL_NO, ROOM.TYPE
HAVING COUNT(ROOM.TYPE) = (
 SELECT MAX(Type_Count)
 FROM (
  SELECT COUNT(ROOM.TYPE) AS Type_Count
   FROM ROOM
```

JOIN BOOKING ON ROOM.ROOM_NO = BOOKING.ROOM_NO

WHERE ROOM.HOTEL_NO = HOTEL.HOTEL_NO

```
GROUP BY ROOM.TYPE
) AS TypeCounts
);

6.26

SELECT HOTEL_NO, SUM(PRICE) AS Lost_Income
FROM ROOM
WHERE ROOM_NO NOT IN (
SELECT ROOM_NO
FROM BOOKING
WHERE CURDATE() BETWEEN DATE_FROM AND DATE_TO
)

GROUP BY HOTEL_NO;
```