Hotel Reservation Dataset
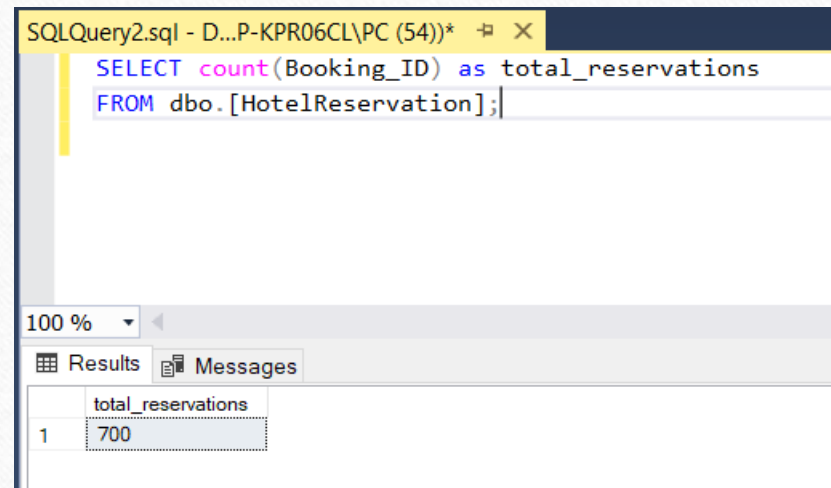
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Presented To: Mentorness

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1. What is the total number of reservations in the dataset?

2. Which meal plan is the most popular among guests?

3. What is the average price per room for reservations involving children?

4. How many reservations were made for the year 20XX (replace XX with the desired year)?


```sql
SELECT count(Booking_ID) as total_no_of_reservations_in_2018
FROM dbo.[HotelReservation]
where year(arrival_date) = 2018;
```

	total_no_of_reservations_in_2018
1	577

5. What is the most commonly booked room type?
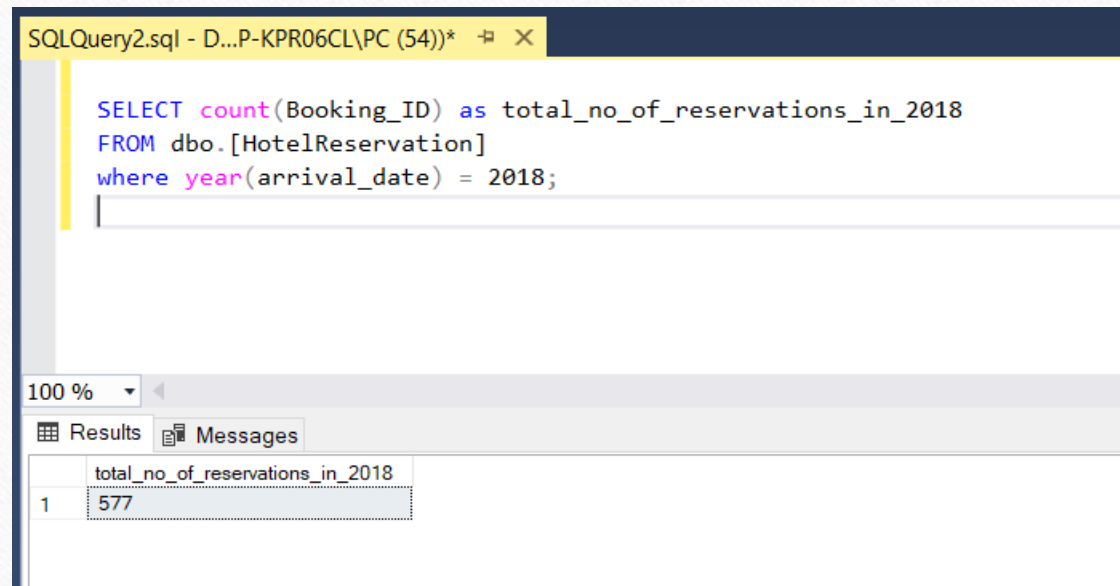

```
SQLQuery2.sql - D...P-KPR06CL\PC (54))*  + X
    SELECT room_type_reserved, count(Booking_ID) as max_no_of_times_booked_room
    FROM dbo.[HotelReservation]
    group by room_type_reserved
    order by max_no_of_times_booked_room desc;
```
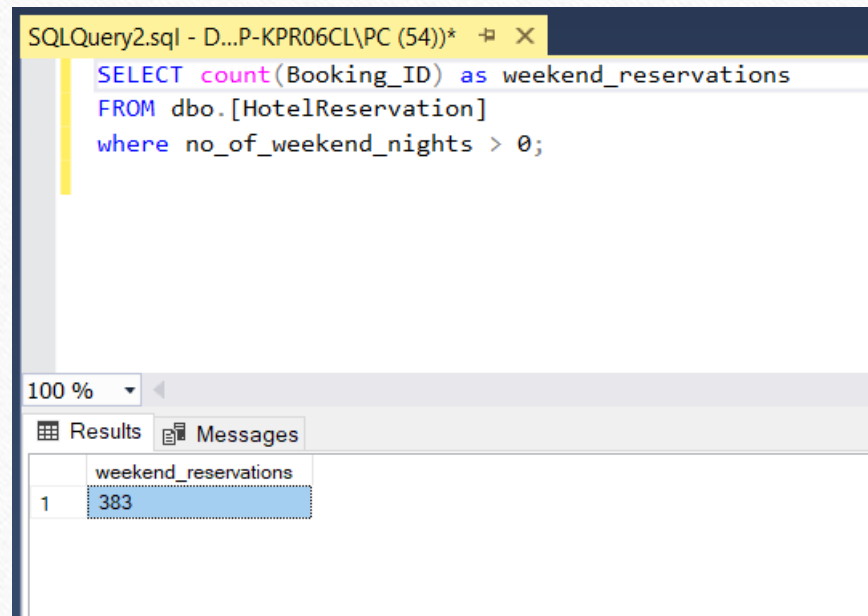
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☷ Results ☶ Messages

	room_type_reserved	max_no_of_times_booked_room
1	Room_Type 1	534
2	Room_Type 4	130
3	Room_Type 6	18
4	Room_Type 2	8
5	Room_Type 7	6
6	Room_Type 5	4

6. How many reservations fall on a weekend (no_of_weekend_nights > 0)?

7. What is the highest and lowest lead time for reservations?

8. What is the most common market segment type for reservations?
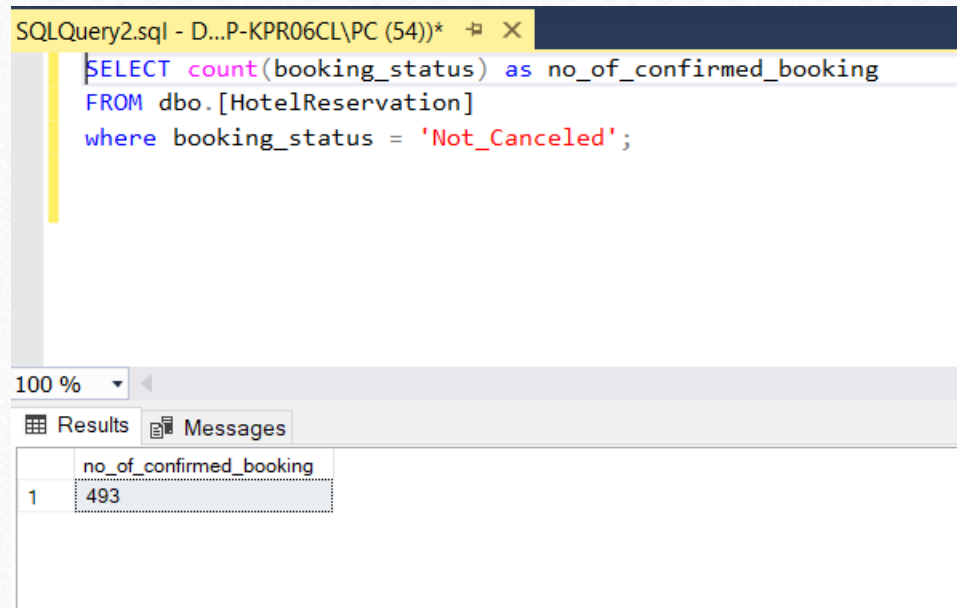
```sql
SQLQuery2.sql - D...P-KPR06CL\PC (54))*  ⊕ ✕
SELECT market_segment_type, count(market_segment_type) as max_number_of_reservations
FROM dbo.[HotelReservation]
group by market_segment_type
order by max_number_of_reservations DESC ;
```

100 %

⊞ Results   📄 Messages

	market_segment_type	max_number_of_reservations
1	Online	518
2	Offline	140
3	Corporate	27
4	Complementary	14
5	Aviation	1

9. How many reservations have a booking status of "Confirmed"?

10. What is the total number of adults and children across all reservations?

SQLQuery2.sql - D...P-KPR06CL\PC (54))* ⊣ ✕

```sql
SELECT sum(no_of_adults) as total_adults, sum(no_of_children) as no_of_total_children
FROM dbo.[HotelReservation]
```

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☐ Results 📄 Messages

	total_adults	total_children
1	1316	69

11. What is the average number of weekend nights for reservations involving children?

12. How many reservations were made in each month of the year?

13. What is the average number of nights (both weekend and weekday) spent by guests for each room type?

SQLQuery2.sql - D...P-KPR06CL\PC (54))*

```sql
SELECT room_type_reserved, AVG(no_of_weekend_nights) as avg_weekend_nights, AVG(no_of_week_nights) as avg_week_nights
FROM dbo.[HotelReservation]
group by room_type_reserved;
```

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Results | Messages

	room_type_reserved	avg_weekend_nights	avg_week_nights
1	Room_Type 1	0	2
2	Room_Type 2	1	2
3	Room_Type 4	1	2
4	Room_Type 5	0	2
5	Room_Type 6	1	2
6	Room_Type 7	1	1

14. For reservations involving children, what is the most common room type, and what is the average price for that room type?

```sql
SELECT room_type_reserved, count(room_type_reserved) as count, AVG(avg_price_per_room) AS avg_price_for_room
FROM dbo.[HotelReservation]
WHERE no_of_children > 0
GROUP BY room_type_reserved
ORDER BY COUNT(Booking_ID) DESC;
```

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Results | Messages

room_type_reserved	count	avg_price_for_room
Room_Type 1	24	123.12291653951
Room_Type 6	17	185.328235401827
Room_Type 2	5	112.078001403809
Room_Type 4	1	86.3199996948242
Room_Type 7	1	187.039993286133

15. Find the market segment type that generates the highest average price per room.

Thank you