HOTEL RESERVATION ANALYSIS

BY
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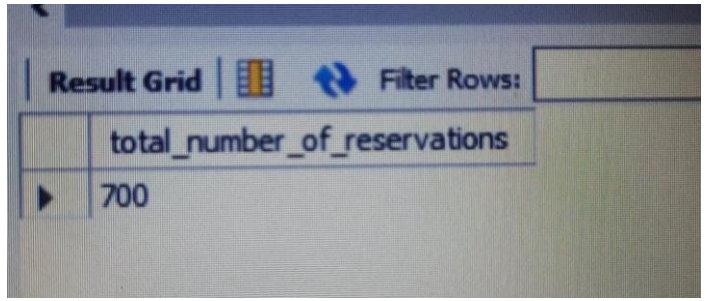
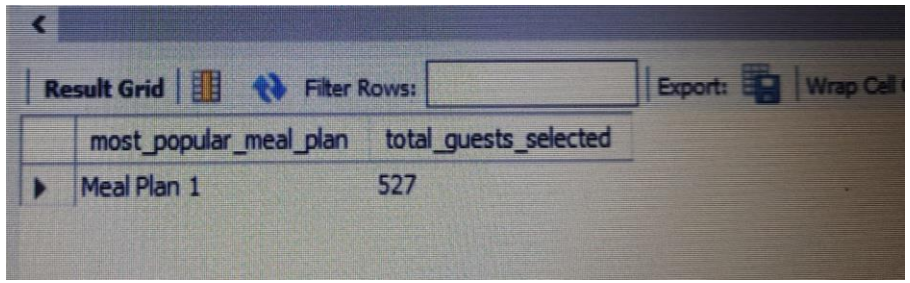
INTRODUCTION

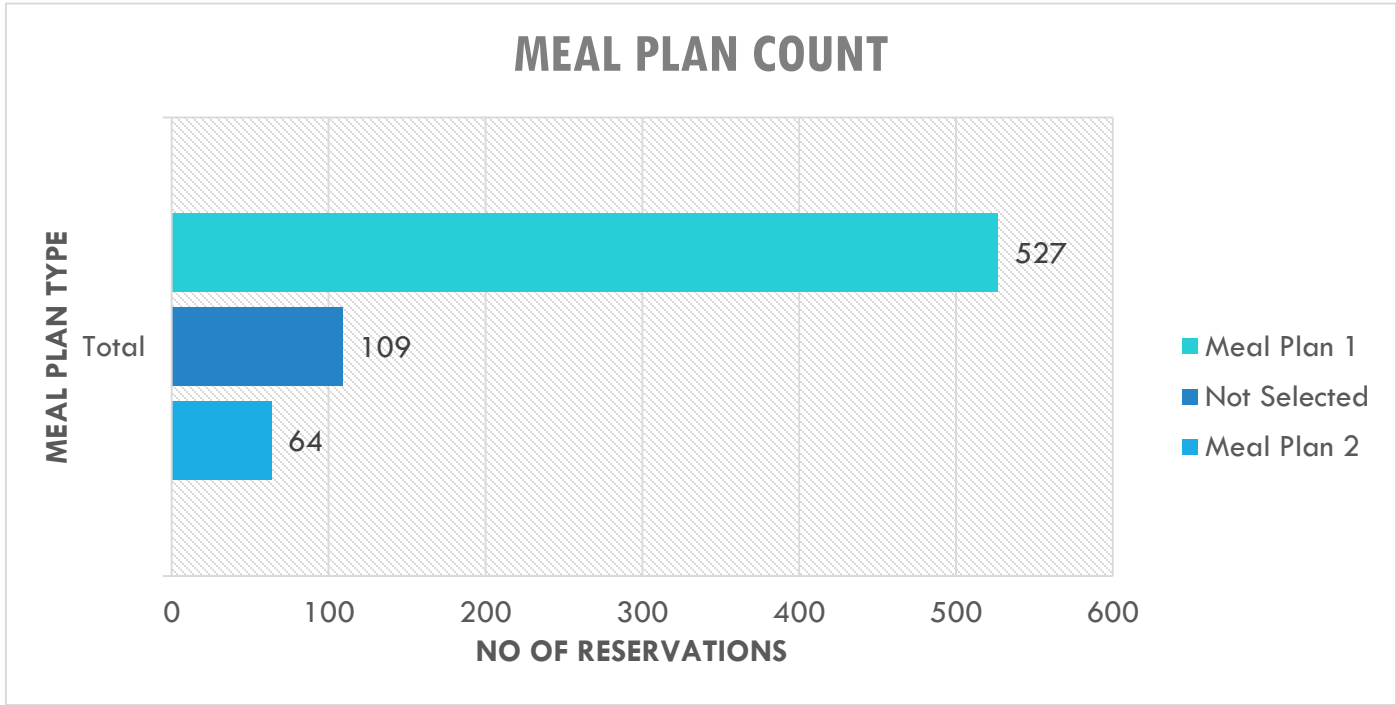
- This project is about analysing a hotel’s reservation to find trends and gain insights into the guests preferences for rooms, food and booking mode etc.
- I have analyzed it from the dataset with 700 reservations for the year 2017 and 2018.
- I have been given the problem statement with 15 questions to gain insights using MYSQL.

Q1: What is the total number of reservations in the dataset?



Q2: Which meal plan is the most popular among guests?





Q3:What is the average price per room for reservations involving children?

Result Grid | Filter Rows:

booking_id	no_of_children	avg_price_per_room
INN00033	2	82.44
INN00061	2	258
INN00081	2	159.3
INN00096	1	130.5
INN00100	2	156.9
INN00115	2	184.24
INN00118	1	102.83
INN00128	2	190.8
INN00137	1	121.5
INN00170	1	87.4

Out of 700 only 48 reservations involved children

Result Grid | Filter Rows:

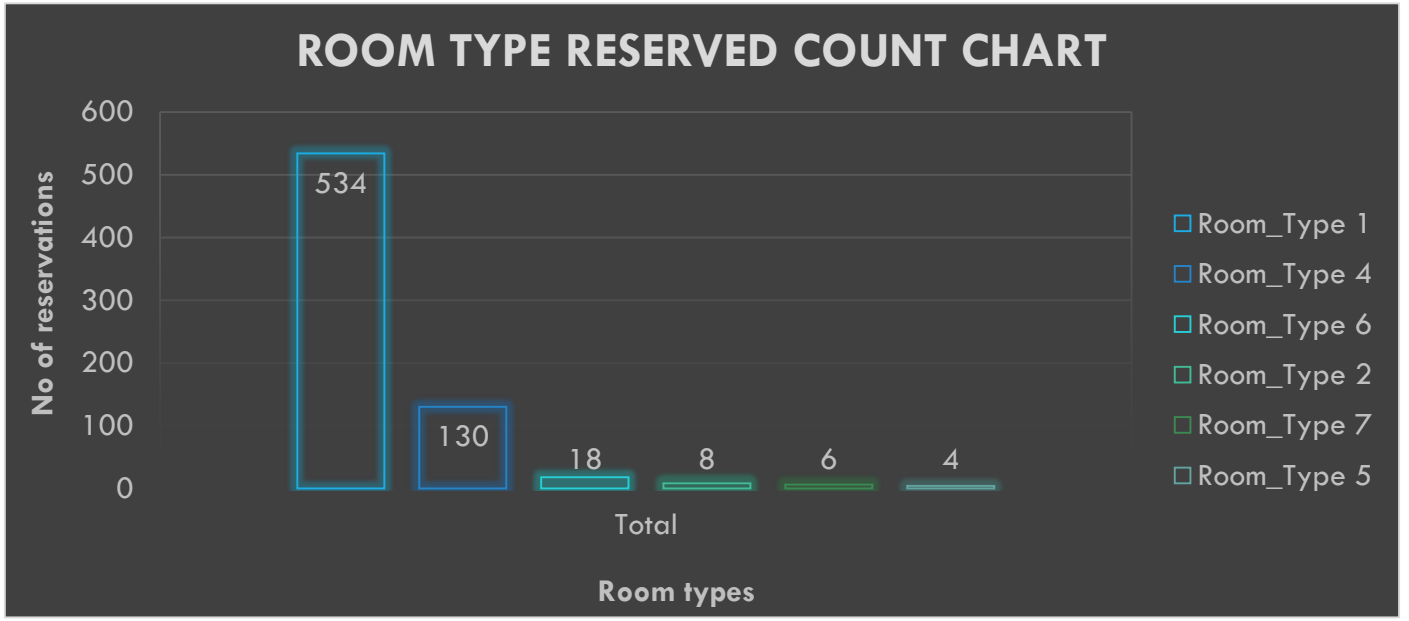
	Total_reservations	YEAR
▶	577	2018

Q4: How many reservations were made for the year 20XX (replace XX with the desired year)?

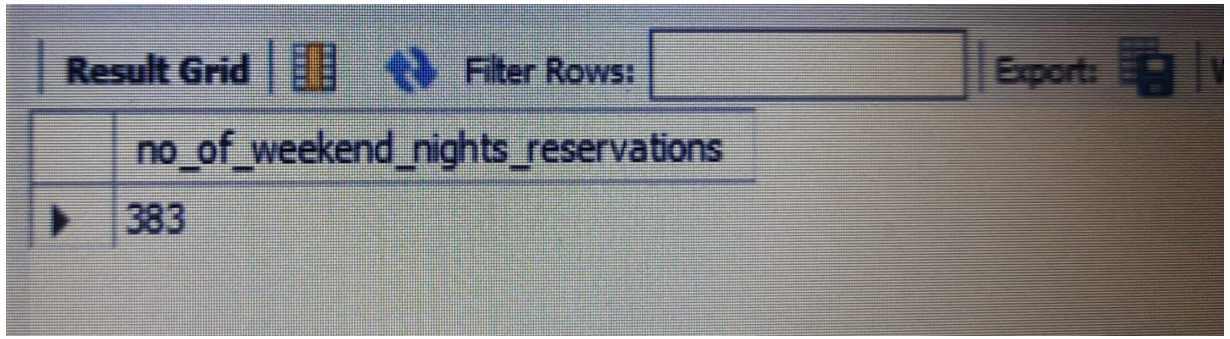
Q5: What is the most commonly booked room type?

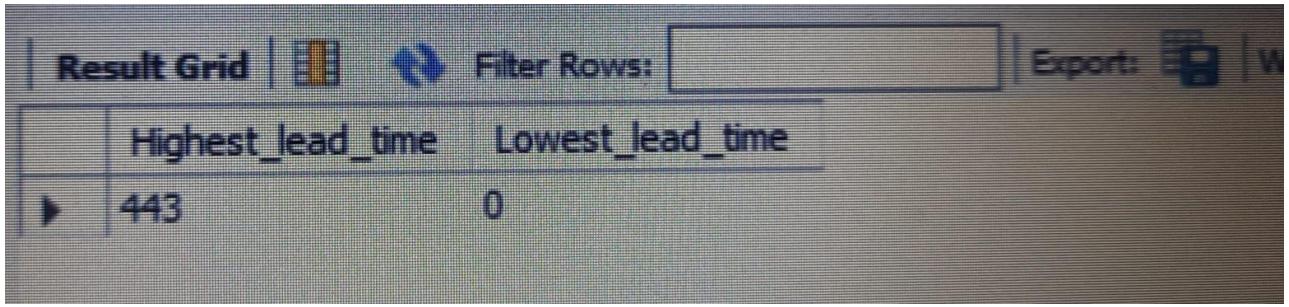
Result Grid | Filter Rows:

	most_booked_room_type	total_no_of_bookings
▶	Room_Type 1	534



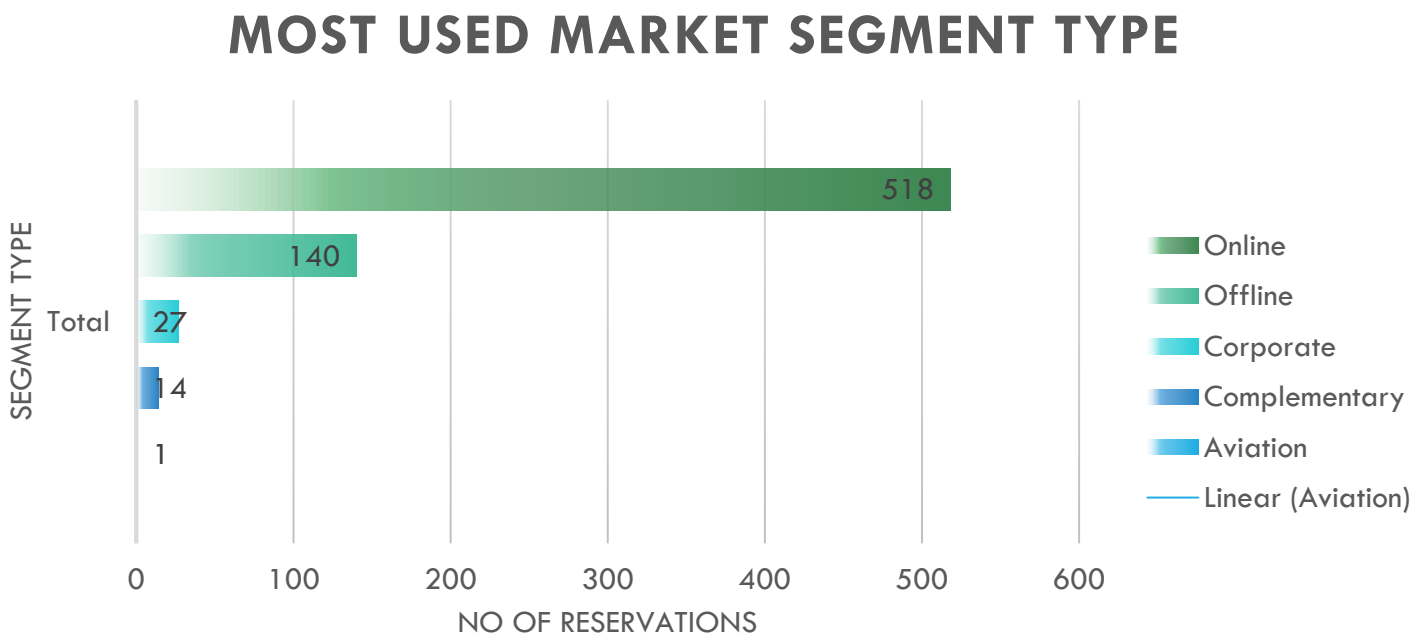
Q6: How many reservations fall on a weekend (no_of_weekend_nights > 0)?

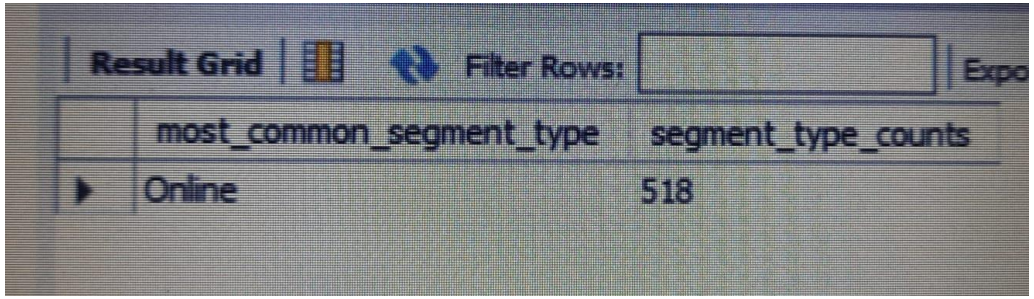




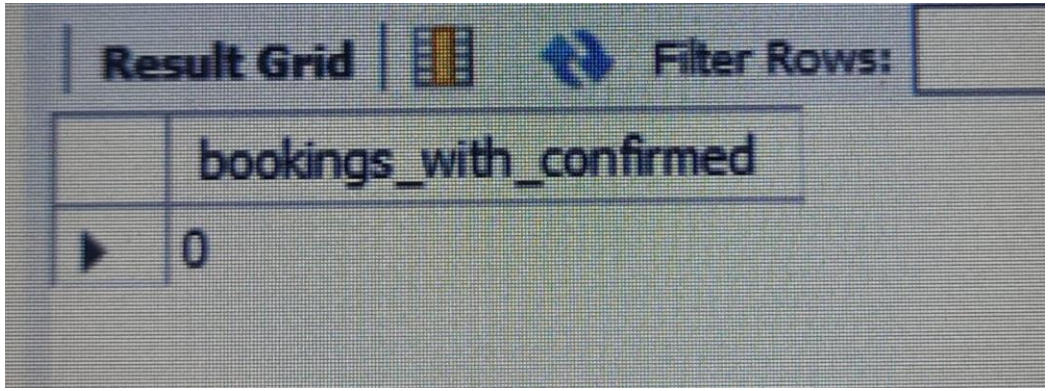
Q7: What is the highest and lowest lead time for reservations?

Q8: What is the most common market segment type for reservations?

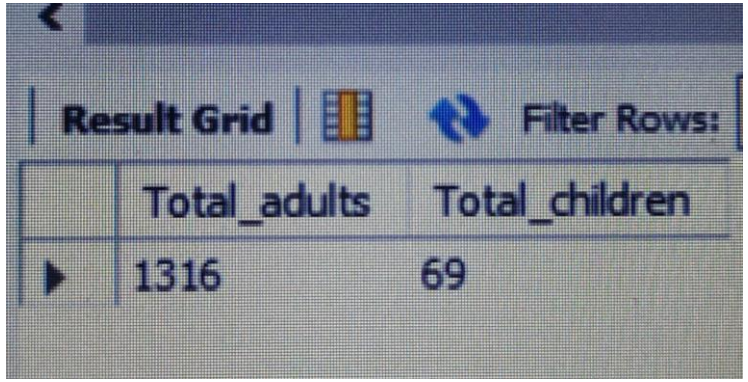


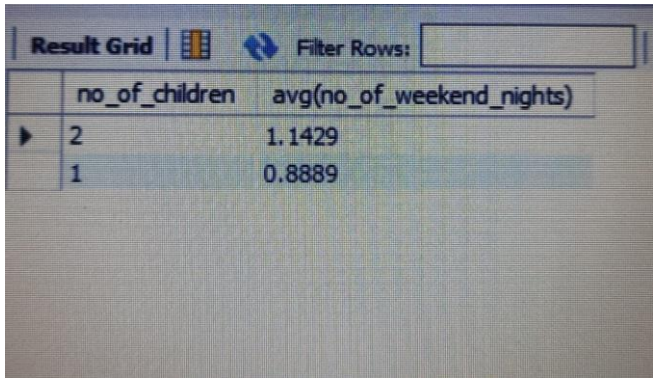


Q9: How many reservations have a booking status of "Confirmed"?



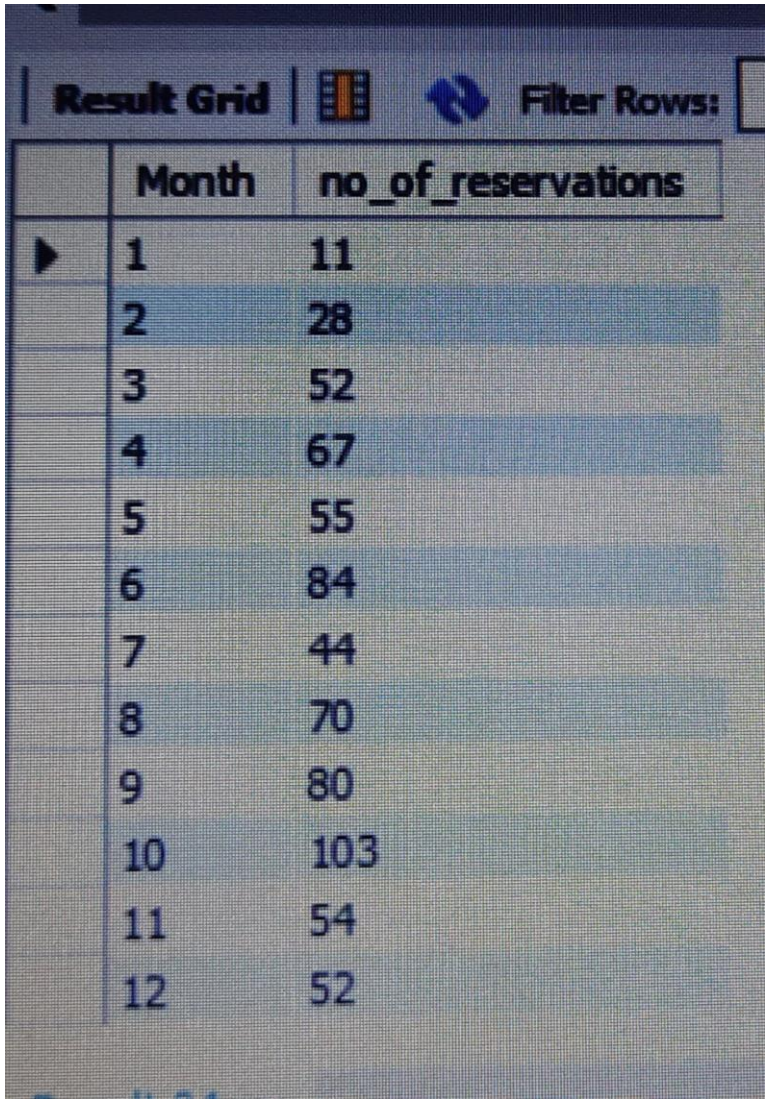
Q10. What is the total number of adults and children across all reservations?





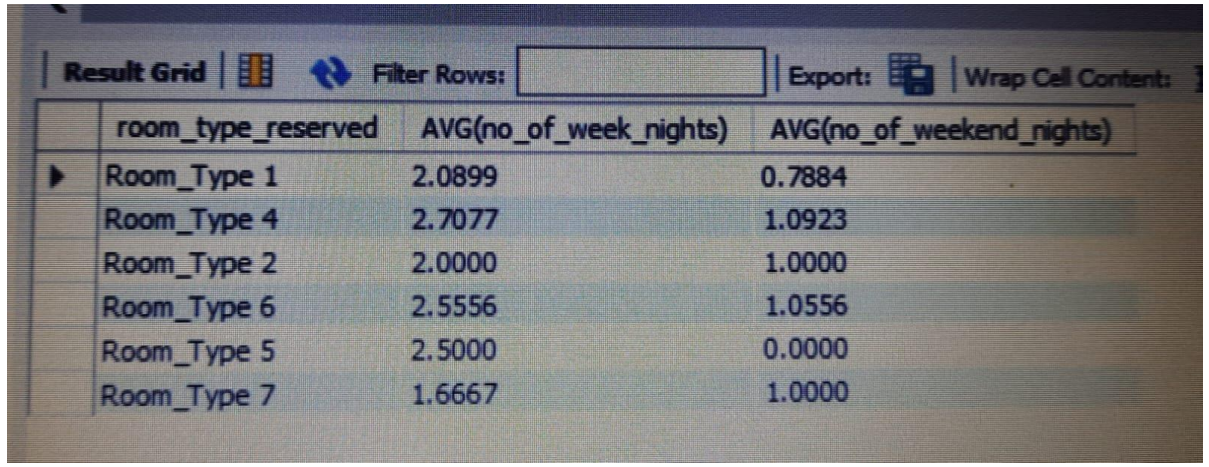
Q11. What is the average number of weekend nights for reservations involving children?

Q12. How many reservations were made in each month of the year?



Result Grid | Filter Rows:

Month	no_of_reservations
1	11
2	28
3	52
4	67
5	55
6	84
7	44
8	70
9	80
10	103
11	54
12	52

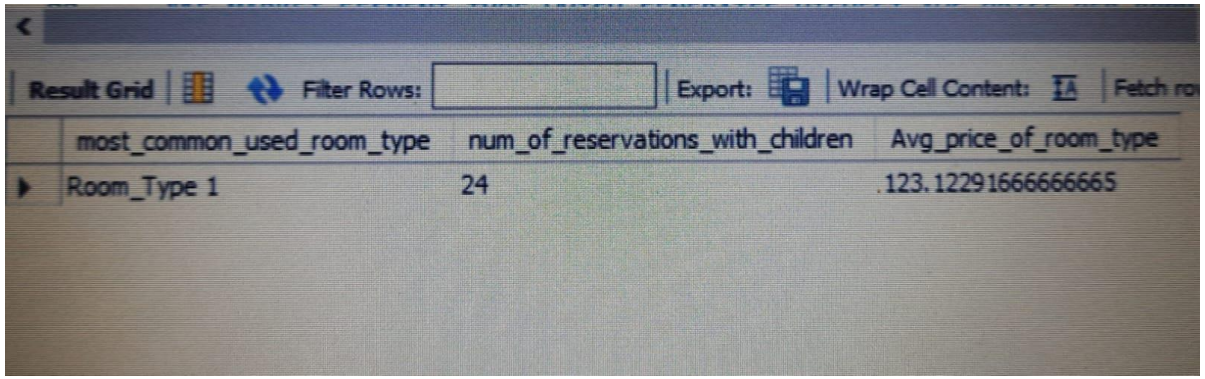


Result Grid | Filter Rows: | Export: | Wrap Cell Content:

room_type_reserved	AVG(no_of_week_nights)	AVG(no_of_weekend_nights)
Room_Type 1	2.0899	0.7884
Room_Type 4	2.7077	1.0923
Room_Type 2	2.0000	1.0000
Room_Type 6	2.5556	1.0556
Room_Type 5	2.5000	0.0000
Room_Type 7	1.6667	1.0000

Q13. What is the average number of nights (both weekend and weekday) spent by guests for each room type?

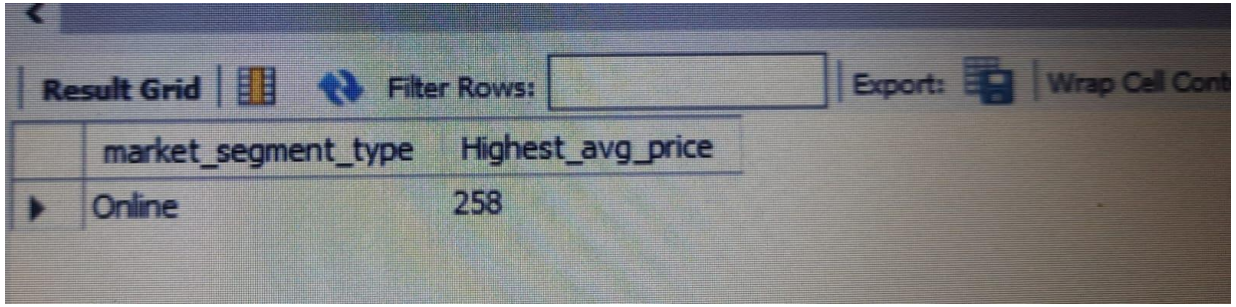
Q14. For reservations involving children, what is the most common room type, and what is the average
price for that room type?



Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Fetch ro

most_common_used_room_type	num_of_reservations_with_children	Avg_price_of_room_type
Room_Type 1	24	123.12291666666665

Q15. Find the market segment type that generates the highest average price per room?



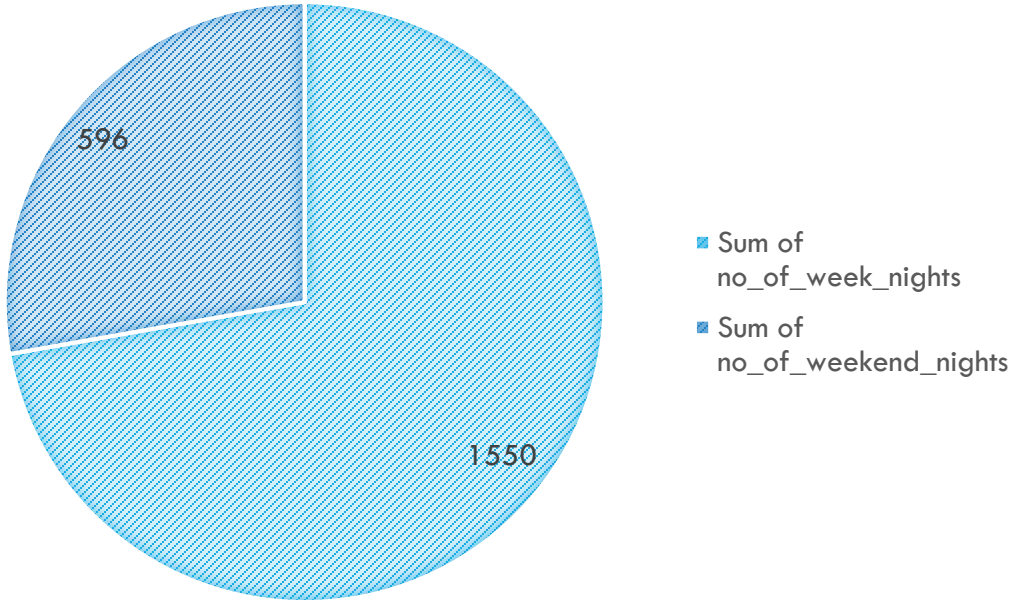
SOME EXTRA STUFFS

AVERAGE PRICE OF ROOM TYPES

Room Types	Average Price (ROUNDED)
Room_Type 1	97
Room_Type 2	90
Room_Type 4	123
Room_Type 5	121
Room_Type 6	183
Room_Type 7	169

TOTAL

MOST RESERVED TIME



Out of 700 reservations only 493 bookings were not cancelled. Balance 207 bookings were cancelled by guests.

Booking Status	No of booking status
Cancelled	207
Not Cancelled	493

THANK YOU !!!