



# MENTORNESS INTERNSHIP

# Agenda

- 1.) IMPORTING THE CSV FILE INTO DATA TOOL (POSTGRESQL)
- 2.) RETRIEVE VALUABLE INSIGHTS FROM THE GIVEN DATA

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

```
select count(*) as total_res  
from hotel;
```

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

```
select type_of_meal, count(*) as meal_count
from hotel
where type_of_meal in ('Meal Plan 1', 'Meal Plan 2',
                      'Not Selected')
group by type_of_meal
order by meal_count desc;
```



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

```
select count(*) as num_reservations  
from hotel  
where extract(year from arrival_date) = 2017 and  
booking_status = 'Not_Canceled';
```

--5. What is the most commonly booked room type?

```
select room_type_reserved, count(*) as most_booked
from hotel
where room_type_reserved in ('Room_Type 1', 'Room_Type 2',
'Room_Type 3', 'Room_Type 4', 'Room_Type 5', 'Room_Type 6',
'Room_Type 7')
group by room_type_reserved
order by most_booked desc;
```

--6. How many reservations fall on a weekend  
(no\_of\_weekend\_nights > 0)?

```
select no_of_weekend, count(*) as no_of_reservations  
from hotel  
where no_of_weekend > 0  
group by no_of_weekend  
order by no_of_reservations desc;
```



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

```
select max(lead_time) as highest_time, min(lead_time) as  
lowest_time  
from hotel  
where booking_status = 'Not_Canceled';
```

--8. What is the most common market segment type for reservations?

```
select market_segment, count(*) as most_common_type  
from hotel  
group by market_segment  
order by most_common_type desc  
limit 1;
```

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

```
select booking_status, count(*) as confirmed
from hotel
group by booking_status
order by booking_status desc;
```

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

```
select sum(no_of_children) as total_children,  
sum(no_of_adults) as total_adults  
from hotel  
where booking_status = 'Not_Canceled';
```

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

```
select Round(avg(no_of_weekend),2) as  
avg_no_of_weekend_nights  
from hotel  
where booking_status in ('Not_Canceled') and  
no_of_children > 0;
```

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

```
select
```

```
    DATE_PART('year', arrival_date) as year,  
    DATE_PART('month', arrival_date) as month,  
    count(*) as num_reservations
```

```
from hotel
```

```
where booking_status = 'Not_Canceled'
```

```
group by DATE_PART('year', arrival_date),  
DATE_PART('month', arrival_date)
```

```
order by year, month;
```

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

```
select room_type_reserved, round(avg(no_of_weekend +  
no_of_week),2) as avg_total_nights  
from hotel  
group by room_type_reserved;
```

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

```
select room_type_reserved, count(*) as num_reservations
from hotel
where no_of_children > 0 and booking_status =
'Not_Canceled'
group by room_type_reserved
order by num_reservations desc
limit 1;
```



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

```
select market_segment, avg(avg_price) as  
avg_price_per_room  
from hotel  
group by market_segment  
order by avg_price_per_room desc  
LIMIT 1;
```

THANK YOU