

# HOTEL RESERVATION ANALYSIS



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

```
SELECT COUNT(*) AS total_reservations  
FROM reservations;
```

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

```
SELECT type_of_meal_plan, COUNT(*) AS count
FROM reservations
GROUP BY type_of_meal_plan
ORDER BY count DESC
LIMIT 1;
```

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

```
SELECT AVG(avg_price_per_room) AS avg_price  
FROM reservations  
WHERE no_of_children > 0;
```

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

```
SELECT COUNT(*) AS reservations_for_year  
FROM reservations  
WHERE YEAR(arrival_date) = 20XX;
```

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

```
SELECT room_type_reserved, COUNT(*) AS count  
FROM reservations  
GROUP BY room_type_reserved  
ORDER BY count DESC  
LIMIT 1;
```

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

```
SELECT COUNT(*) AS weekend_reservations  
FROM reservations  
WHERE no_of_weekend_nights > 0;
```

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

```
SELECT MAX(lead_time) AS highest_lead_time,  
MIN(lead_time) AS lowest_lead_time  
FROM reservations;
```



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

```
SELECT market_segment_type, COUNT(*) AS count  
FROM reservations  
GROUP BY market_segment_type  
ORDER BY count DESC  
LIMIT 1;
```

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

```
SELECT COUNT(*) AS confirmed_reservations  
FROM reservations  
WHERE booking_status = 'Confirmed';
```

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

```
SELECT SUM(no_of_adults) AS total_adults,  
SUM(no_of_children) AS total_children  
FROM reservations;
```

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

```
SELECT AVG(no_of_weekend_nights) AS avg_weekend_nights  
FROM reservations  
WHERE no_of_children > 0;
```

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

```
SELECT MONTH(arrival_date) AS month,  
COUNT(*) AS reservations_count  
FROM reservations  
GROUP BY MONTH(arrival_date)  
ORDER BY month;
```



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

```
SELECT room_type_reserved,  
AVG(no_of_weekend_nights + no_of_week_nights) AS avg_nights  
FROM reservations  
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 count,  
AVG(avg_price_per_room) AS avg_price  
FROM reservations  
WHERE no_of_children > 0  
GROUP BY room_type_reserved  
ORDER BY count DESC  
LIMIT 1;
```

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

```
SELECT market_segment_type,  
AVG(avg_price_per_room) AS avg_price  
FROM reservations  
GROUP BY market_segment_type  
ORDER BY avg_price DESC  
LIMIT 1;
```





# THANK YOU

I hope you liked my presentation :)