# 



ANALYSIS

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

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SELECT COUNT(\*) AS total\_reservations FROM reservations;



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

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SELECT type\_of\_meal\_plan, COUNT(\*) AS count FROM reservations
GROUP BY type\_of\_meal\_plan
ORDER BY count DESC
LIMIT 1;



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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?

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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?

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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?

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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?

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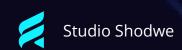
SELECT AVG(no\_of\_weekend\_nights) AS avg\_weekend\_nights FROM reservations WHERE no\_of\_children > 0;



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

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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;

