

SQL Query

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

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

2. Most Popular Meal Plan

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

3. Average Price Per Room for Reservations Involving Children

```
SELECT AVG(avg_price_per_room) AS average_price
FROM hotel_reservations
WHERE no_of_children > 0;
```

4. Reservations Made for a Specific Year

```
SELECT COUNT(*) AS reservations_in_year
FROM hotel_reservations
WHERE YEAR(arrival_date) = 2019;
```

5. Most Commonly Booked Room Type

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

6. Reservations on a Weekend

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

7. Highest and Lowest Lead Time for Reservations

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

8. Most Common Market Segment

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

9. Confirmed Reservations

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

10. Total Number of Adults and Children

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

11. Average Number of Weekend Nights for Reservations Involving Children

```
SELECT AVG(no_of_weekend_nights) AS average_weekend_nights
FROM hotel_reservations
WHERE no_of_children > 0;
```

12. Reservations Per Month

```
SELECT MONTH(arrival_date) AS month, COUNT(*) AS reservations_count
```

```
FROM hotel_reservations
GROUP BY MONTH(arrival_date)
ORDER BY month;
```

13. Average Number of Nights by Room Type

```
SELECT room_type_reserved, AVG(no_of_weekend_nights + no_of_week_nights) AS
average_nights
FROM hotel_reservations
GROUP BY room_type_reserved;
```

14. Most Common Room Type and Average Price for Reservations with Children

```
SELECT room_type_reserved, COUNT(*) AS count, AVG(avg_price_per_room) AS
average_price
FROM hotel_reservations
WHERE no_of_children > 0
GROUP BY room_type_reserved
ORDER BY count DESC
LIMIT 1;
```

15. Market Segment with Highest Average Price per Room

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