SELECT \* FROM hotelreservation

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

SELECT

COUNT(\*) AS total\_reservation

FROM hotelreservation

1. Which meal plan is the most popular among guests?

SELECT type\_of\_meal\_plan, COUNT(\*) AS no\_reservation

FROM hotelreservation

GROUP BY type\_of\_meal\_plan

ORDER BY no\_reservation DESC

LIMIT 1;

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

SELECT ROUND(AVG(avg\_price\_per\_room),2) AS average\_price\_per\_room

FROM hotelreservation

WHERE no\_of\_children > 0;

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

SELECT COUNT(\*) AS total\_reservations\_on\_2018

FROM hotelreservation

WHERE EXTRACT(YEAR FROM arrival\_date) = 2018;

1. . What is the most commonly booked room type?

SELECT room\_type\_reserved,

COUNT(room\_type\_reserved) AS total\_bookings

FROM hotelreservation

GROUP BY room\_type\_reserved

ORDER BY total\_bookings DESC

LIMIT 1;

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

SELECT COUNT(\*) AS weekend\_reservations

FROM hotelreservation

WHERE no\_of\_weekend\_nights > 0;

SELECT \* FROM hotelreservation

1. 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 hotelreservation;

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

SELECT market\_segment\_type AS common\_market\_segment,

COUNT(\*) AS segment\_count

FROM hotelreservation

GROUP BY market\_segment\_type

ORDER BY segment\_count DESC

LIMIT 1;

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

SELECT COUNT(\*) AS confirm\_booking

FROM hotelreservation

WHERE booking\_status = 'Not\_Canceled';

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

SELECT

SUM(no\_of\_adults) AS total\_no\_of\_adults,

SUM(no\_of\_children) AS total\_no\_of\_children

FROM hotelreservation;

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

SELECT ROUND(AVG(no\_of\_weekend\_nights),0) AS avg\_no\_of\_weekend\_night

FROM hotelreservation

WHERE no\_of\_children > 0;

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

SELECT

EXTRACT(MONTH FROM arrival\_date) AS month,

COUNT(\*) AS total\_reservation

FROM hotelreservation

GROUP BY EXTRACT(MONTH FROM arrival\_date)

ORDER BY month;

1. 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\_nights + no\_of\_week\_nights)) AS avg\_no\_of\_night

FROM hotelreservation

GROUP BY room\_type\_reserved

ORDER BY room\_type\_reserved ASC;

1. 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 AS common\_room\_type,

ROUND(AVG(avg\_price\_per\_room,2) AS average\_price

FROM hotelreservation

WHERE no\_of\_children > 0

GROUP BY room\_type\_reserved

ORDER BY average\_price DESC

LIMIT 1;

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

SELECT

market\_segment\_type,

ROUND(AVG(avg\_price\_per\_room),2) AS average\_price\_per\_room

FROM hotelreservation

GROUP BY market\_segment\_type

ORDER BY average\_price\_per\_room DESC

LIMIT 1;