SOURCE CODE

SQL QUERY FOR HOTEL RESERVATION ANALYSIS

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

```
SELECT count(Booking_ID)
FROM hotel reservation dataset
```

Q2.) Which meal plan is the most popular among guests?

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

Q3.) What is the average price per room for reservations involving children?

```
SELECT ROUND(AVG(avg_price_per_room),2) AS avg_price_per_room FROM hotel_reservation_dataset WHERE no_of_children > 0;
```

Q4.) How many reservations were made for the year 20XX (replace XX with the desired year)?

```
SELECT substring(arrival_date,-4) AS year, count(*) AS reservation_count FROM hotel_reservation_dataset GROUP BY year;
```

Q5.) What is the most commonly booked room type?

SELECT room_type_reserved,
COUNT(room_type_reserved) as booked_room_count
FROM hotel_reservation_dataset
GROUP BY room_type_reserved
ORDER BY booked room count DESC

Q6.)How many reservations fall on a weekend (no_of_weekend_nights > 0)?

SELECT count(*) AS total_booking_on_weekend FROM hotel_reservation_dataset WHERE no_of_weekend_nights > 0

Q7.) 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 hotel reservation dataset

Q8.) What is the most common market segment type for reservations?

Q9.)How many reservations have a booking status of "Confirmed"?

SELECT count(booking_status) as booking_status FROM hotel_reservation_dataset WHERE booking_status ="Not_Canceled"

Q10.) 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 hotel reservation dataset

Q11.)What is the average number of weekend nights for reservations involving children?

SELECT round(avg(no_of_weekend_nights),2) AS avg_weekend_night_for_chlidren FROM hotel_reservation_dataset WHERE no_of_children>0

Q12.)How many reservations were made in each month of the year?

SELECT month(str_to_date(arrival_date,'%d-%m-%Y')) AS month, count(*) AS total_reservation
FROM hotel_reservation_dataset
GROUP BY month(str_to_date(arrival_date,'%d-%m-%Y'))
ORDER BY month;

Q13.) What is the average number of nights (both weekend and weekday) spent by guests for each room type?

Q14.)For reservations involving children, what is the most common room type, and what is the average price for that room type?

Q15.)Find the market segment type that generates the highest average price per room.