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Name -Siddhi walzade
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Batch - MIP-DA-04

Project -Hotel Reservation Analysis with SQL

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

Query:

SELECT SUM(Totel_reservation) AS total_reservations

FROM hotel reservation. 'hotel reservation dataset';

ALTER TABLE hotel reservation. 'hotel reservation dataset'

DROP COLUMN Totel reservation;

ALTER TABLE hotel reservation. 'hotel reservation dataset'

ADD Totel_reservation smallint;

UPDATE hotel reservation. 'hotel reservation dataset'

SET Totel_reservation = no_of_adults + no_of_children;

2.meal plan is the most popular among guests?

Query:

select type_of_meal_plan, count(*) as most_preferred_meal from hotel_reservation.`hotel reservation dataset` group by type_of_meal_plan order by most_preferred_meal desc

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

Query:

SELECT AVG(avg_price_per_room) AS average_value_no_of_children FROM hotel_reservation.`hotel reservation dataset'

WHERE no_of_children > 0;

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4. How many reservations were made for the year 20XX (replace XX with the desired year)?
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SELECT COUNT(*) AS total_reservations
FROM hotel_reservation. hotel reservation dataset
WHERE YEAR(arrival date) = 2020;
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5. What is the most commonly booked room type?

Query:

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SELECT * FROM hotel_reservation.`hotel reservation dataset`;

Select room_type_reserved, count(*) as room_type_reserved_By_customer from hotel_reservation.`hotel reservation dataset` group by room_type_reserved order by room_type_reserved_By_customer desc limit 1
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6. How many reservations fall on a weekend (no of weekend nights > 0)?

Query:

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FROM hotel_reservation.`hotel reservation dataset`
WHERE no_of_weekend_nights > 0;
```

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

Query:

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SELECT max(lead_time) as Max_lead_time , min(lead_time) as Min_lead_time
```

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

Query:

SELECT market_segment_type as most_perefer_segment_type
FROM hotel_reservation.`hotel reservation dataset`
group by market_segment_type
order by most_perefer_segment_type desc
limit 1

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

Query:

SELECT booking_status ,count(*)as confirm FROM hotel_reservation.`hotel reservation dataset` group by booking_status order by confirm limit 1 ,1;

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

Query:

SELECT sum(no_of_adults) as adults,sum(no_of_children) as children FROM hotel reservation.`hotel reservation dataset`

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

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Query:
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SELECT no_of_children ,avg(no_of_weekend_nights) as avg_no_of_weekend_night

FROM hotel_reservation.`hotel reservation dataset`

group by no_of_children
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12. How many reservations were made in each month of the year?

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Query:
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SELECT

EXTRACT(YEAR from arrival_date)AS reservation_year,
EXTRACT(month from arrival_date) AS reservation_month,
COUNT(arrival_date) AS reservations_count
FROM

hotel_reservation.`hotel reservation dataset`

GROUP BY
arrival_date,
arrival_date
ORDER BY
reservation_month,
reservation year;

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

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Query:
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```
SELECT room_type_reserved, avg(no_of_weekend_nights) as weekend_night, avg(no_of_week_nights) as week_nights
```

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

```
Query:

SELECT room_type_reserved, avg(no_of_weekend_nights) as weekend_night, avg(no_of_week_nights) as week_nights

FROM hotel_reservation.`hotel reservation dataset` group by room_type_reserved;
```

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

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SELECT

room_type_reserved,

AVG(avg_price_per_room) AS avg_price

FROM

`hotel_reservation`.`hotel reservation dataset`

WHERE

no_of_children > 0

GROUP BY

room_type_reserved

order by

count(*) desc

limit 1;
```