Source Code File

Schema-use internship_1stproject;

SELECT * FROM `hotel reservation dataset`;

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

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

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

SELECT type_of_meal_plan,count(type_of_meal_plan)

from `hotel reservation dataset` group by 1 order by 2 desc;

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

SELECT avg(avg_price_per_room)

from `hotel reservation dataset`

where no_of_children >0 order by 1 desc;

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

SELECT COUNT(arrival_date) AS reservations_count

FROM `hotel reservation dataset`

WHERE YEAR(STR_TO_DATE(arrival_date, '%d-%m-%Y')) = 2018;

5. What is the most commonly booked room type?

SELECT room_type_reserved,COUNT(*)

from `hotel reservation dataset`

group by 1 order by 1;

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

SELECT count(Booking_ID)

from `hotel reservation dataset`

where no_of_weekend_nights > 0;

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

select max(lead_time),min(lead_time)

from `hotel reservation dataset`;

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

select count(market_segment_type),market_segment_type

from `hotel reservation dataset` group by 2 order by 1 desc limit 1;

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

```
SELECT count(Booking_ID) FROM `hotel reservation dataset` where booking_status='Not_Canceled';
```

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

```
select sum(no_of_adults) as adults,sum(no_of_children) as children
 from `hotel reservation dataset`
 where no_of_adults>0 and no_of_children>0;
```

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

```
select  avg(no_of_weekend_nights) as weekend
from `hotel reservation dataset`
where no_of_children>0;
```

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

```
SELECT
    YEAR(STR_TO_DATE(arrival_date, '%d-%m-%Y')) AS year,
    MONTH(STR_TO_DATE(arrival_date, '%d-%m-%Y')) AS month,
    COUNT(*) AS reservations_count
FROM
    `hotel reservation dataset`
GROUP BY
    year, month
ORDER BY
    year, month;
```

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

```
 select distinct room_type_reserved,
avg(no_of_weekend_nights) over(partition by room_type_reserved) as weekend ,
 avg(no_of_week_nights) over(partition by room_type_reserved) as weekdays
from `hotel reservation dataset` ;
```

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

```
 with cte as
 (
 select count(room_type_reserved) as room_cnt,room_type_reserved,avg(avg_price_per_room) as
average_price
```

```
from `hotel reservation dataset` where no_of_children>0 group by 2 order by 1 desc
)
select
room_type_reserved,
room_cnt,
average_price
from cte
order by room_cnt 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)
from `hotel reservation dataset` group by 1 order by 2 desc
```