HOTEL RESERVATION ANALYSIS – MIP-DA-10

- SELECT COUNT(Booking_ID) AS TOTAL_NO_OF_RESERVATION FROM [Hotel Reservation Dataset3];
 TOTAL_NO_OF_RESERVATION
 700
- 2. SELECT type_of_meal_plan, COUNT(Booking_ID) AS Total_no_of_meal_Reservations
 FROM [Hotel Reservation Dataset3]
 GROUP BY type of meal plan;

type_of_meal_plan	Total_no_of_meal_Reservations
Meal Plan 1	527
Meal Plan 2	64
Not Selected	109

Meal plan 1 is most popular.

- 3. SELECT AVG(avg_price_per_room) AS Average_price_per_Childrensroom FROM [Hotel
 Reservation Dataset3]
 WHERE no_of_children > 0;
 Average price per room = 144.57
- 4. SELECT COUNT(Booking_ID) AS Reservations_in_2018 FROM [Hotel Reservation Dataset3]
 WHERE arrival_date >= '2018-01-01';
 Ans =577
- 5. SELECT room_type_reserved, COUNT(Booking_ID) AS Total_no_of_room_type_Reservations FROM [Hotel Reservation Dataset3] GROUP BY room_type_reserved ORDER BY Total_no_of_room_type_Reservations DESC;

room_type_reserved	Total_no_of_room_type_Reservations
Room_Type 1	534
Room_Type 4	130
Room_Type 6	18
Room_Type 2	8
Room_Type 7	6
Room_Type 5	4

Most common room is Room type 1

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6.SELECT COUNT(Booking_ID) AS No_of_reservations
  FROM [Hotel Reservation Dataset3]
  WHERE no_of_weekend_nights > 0;
  Ans: 383
```

7.SELECT MAX(lead_time) AS MAIMUM_LEAD_TIME, MIN(lead_time) AS MINIMUM_LEAD_TIME FROM [Hotel Reservation Dataset3];

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MAIMUM_LEAD_TIME
                       MINIMUM_LEAD_TIME
                                                         0
8. SELECT market_segment_type, COUNT(Booking_ID) AS No_of_reservations
FROM [Hotel Reservation Dataset3]
GROUP BY market_segment_type
ORDER BY No of reservations DESC;
Online -558 reservations
9. SELECT COUNT(Booking_ID) AS No_of_reservations
FROM [Hotel Reservation Dataset3]
WHERE booking_status = 'Confirmed'
Ans =0
10. SELECT SUM(no_of_adults) AS Total_adults,
      SUM(no_of_children) AS Total_children
      FROM [Hotel Reservation Dataset3];
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Ans:

Total_adults	Total_children	
	1316	69

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11. SELECT AVG(no_of_weekend_nights) AS Avg_Weekend_Nights_With_Children
FROM [Hotel Reservation Dataset3]
WHERE no_of_children > 0;
Ans = 1
12. SELECT DATEPART(MONTH, arrival_date) AS Month,
    COUNT(*) AS Reservations Count
       FROM [Hotel Reservation Dataset3]
GROUP BY DATEPART(MONTH, arrival_date)
ORDER BY Month;
13.
```

Month	Reservations_Count	
January		11
February		28
March		52
April		67
May		55
June		84
July		44
August		70
September		80
October		103
November		54
December		52

13. SELECT

```
room_type_reserved AS Room_Type,
   AVG(no_of_weekend_nights + no_of_week_nights) AS Avg_Total_Nights
FROM [Hotel Reservation Dataset3]
GROUP BY
```

room_type_reserved;

Room_Type	Avg_Total_Nights	
Room_Type 1		2
Room_Type 2		3
Room_Type 4		3
Room_Type 5		2
Room_Type 6		3
Room_Type 7		2

14. SELECT

```
room_type_reserved AS Common_Room_Type,
    COUNT(*) AS Reservation_Count,
    AVG(avg_price_per_room) AS Avg_Price
FROM [Hotel Reservation Dataset3]
WHERE
    no_of_children > 0
GROUP BY
    room_type_reserved
ORDER BY
    Reservation_Count DESC;
```

Most common room type with children = Room type 1 with an average price of 123.12

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15. SELECT market_segment_type AS Market_Segment,
    AVG(avg_price_per_room) AS Avg_Price_Per_Room
FROM [Hotel Reservation Dataset3]
GROUP BY market_segment_type
ORDER BY Avg_Price_Per_Room DESC;
Ans: Online Avg Price = 112.46
```