SQL TIPS AND TRICKS

PART 30

Case Study
On Travel Company

MAYURI DANDEKAR

booking

	booking_id	booking_date	user_id	line_of_business
)	b1	2022-03-23	u1	flight
	b2	2022-03-27	u2	flight
	b3	2022-03-28	u1	hotel
	b4	2022-03-31	u4	flight
	b5	2022-04-02	u1	hotel
	b6	2022-04-02	u2	flight
	b7	2022-04-06	u5	flight
	b8	2022-04-06	u6	hotel
	b9	2022-04-06	u2	flight
	b10	2022-04-10	u1	flight
	b11	2022-04-12	u4	flight
	b12	2022-04-16	u1	flight
	b13	2022-04-19	u2	flight
	b14	2022-04-20	u5	hotel
	b15	2022-04-22	u6	flight
	b16	2022-04-26	u4	hotel
	b17	2022-04-28	u2	hotel
	b18	2022-04-30	u1	hotel
	b19	2022-05-04	u1	hotel
	b20	2022-05-06	u1	flight

user

	user_id	segment
>	u1	s1
	u2	s1
	u3	s1
	u4	s2
	u5	s2
	u6	s3
	u7	s3
	u8	s3
	u9	s3
	u10	s3

Write a query that gives below output

segment	no_of_users	user_who_booked_flight_in_apr2022
s1	3	2
s2	2	2
s3	5	1

```
SELECT u.segment, COUNT(DISTINCT u.user_id) AS no_of_users,

COUNT(DISTINCT CASE WHEN b.line_of_business='flight' AND

b.booking_date BETWEEN '2022-04-01' AND '2022-04-30'

THEN b.user_id END) AS user_who_booked_flight_in_apr2022

FROM user u

LEFT JOIN booking b ON u.user_id = b.user_id

GROUP BY u.segment;
```

Write a query to identify users whose first booking was hotel booking

```
-- method 1
 37 • ⊝ SELECT * FROM (
            SELECT *,
 38
            RANK() OVER(PARTITION BY user_id ORDER BY booking_date) AS rn
 39
            FROM booking) rank_users
 40
41
        WHERE rn=1 AND line_of_business='hotel';
 42
Result Grid
                                        Export: Wrap Cell Content: TA
             Filter Rows:
   booking_id booking_date user_id line_of_business
  b8
            2022-04-06
                       u6
                               hotel
```

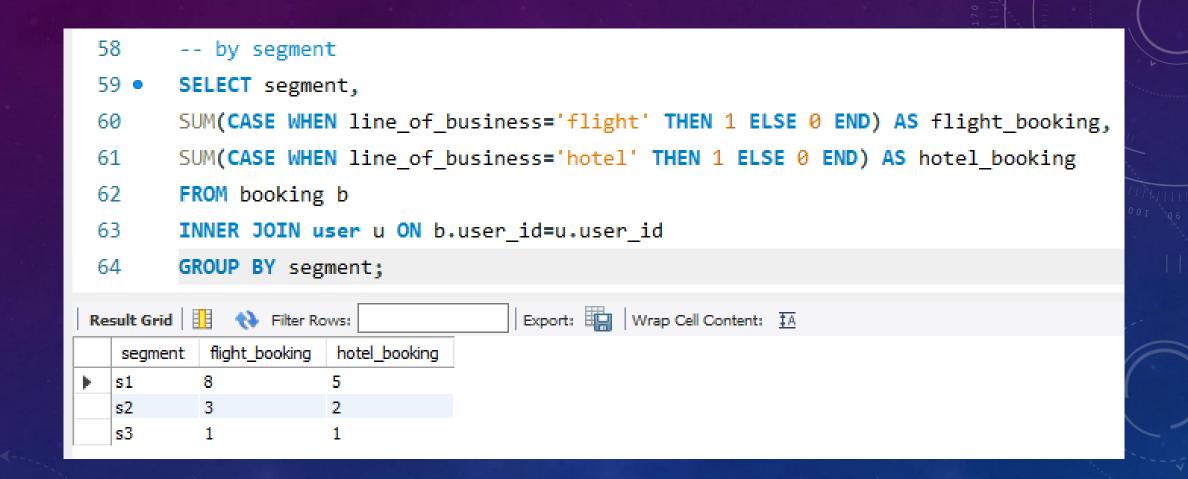
```
43
       -- method 2

⇒ SELECT DISTINCT user_id FROM (
45
           SELECT *,
            FIRST_VALUE(line_of_business) OVER(PARTITION BY user_id ORDER BY booking_date) AS first_booking
46
47
            FROM booking) book_users
48
       WHERE first_booking='hotel';
49
                                     Export: Wrap Cell Content: IA
Result Grid
            Filter Rows:
  user_id
```

Write a query to calculate days between first and last booking of each user

;								
;								
FROM booking								
55 GROUP BY user_id;								
56								
Result Grid ■ ♦ Filter Rows: Export: □ Wrap Cell Content: ፲Α								

Write a query to find the No. of flight and hotel bookings in each of the user segments for the year 2022/



```
58
       -- by user id
59 •
       SELECT user_id,
       SUM(CASE WHEN line_of_business='flight' THEN 1 ELSE 0 END) AS flight_booking,
60
61
       SUM(CASE WHEN line_of_business='hotel' THEN 1 ELSE 0 END) AS hotel_booking
62
       FROM booking b
63
       -- INNER JOIN user u ON b.user_id=u.user_id
       GROUP BY user_id;
64
                                   Export: Wrap Cell Content: 1A
flight_booking hotel_booking
  user_id
 u1
  u2
```

u4 u5 u6

THANK YOU

MAYURI DANDEKAR