Rows and Columns

SELECT * FROM sessions ORDER BY RANDOM() LIMIT 100;

--num count

SELECT

COUNT(session_id)

FROM sessions

SELECT*

FROM information_schema.columns WHERE table name = 'sessions'

SELECT COUNT(*),

COUNT(DISTINCT trip_id) AS distinct_trip

From flights

SELECT COUNT(*)

FROM information schema.columns

WHERE table_name = 'flights'

Joined Table

WITH joined_table AS(

SELECT *

FROM sessions s

LEFT JOIN users u

ON s.user_id=u.user_id

LEFT JOIN flights f

ON s.trip_id=f.trip_id

LEFT JOIN hotels h

ON s.trip_id=h.trip_id

WHERE s.session_start > '2023-01-04'

)

--SELECT COUNT(*)

--FROM joined_table

SELECT*

FROM joined_table

ORDER BY RANDOM()

LIMIT 1000

```
SELECT
 u.user_id,
 COUNT(s.trip id) AS total bookings,
 COUNT(CASE WHEN s.cancellation = TRUE THEN 1 END) AS cancellations,
 AVG(b.price) AS avg booking value,
 COUNT(DISTINCT b.destination) AS unique destinations
FROM users u
LEFT JOIN b ON u.user id = b.user id
GROUP BY u.user id;
Sessions_Base Table
WITH session 2023 AS(
SELECT*
FROM sessions s
WHERE s.session_start > '2023-01-04'),
filtered user AS(
SELECT user_id, COUNT(*)
FROM session 2023 s
GROUP BY user_id
HAVING COUNT (*)>7),
session base table AS(
SELECT s.session_id, s.user_id, s.trip_id, s.session_start, s.session_end, s.page_clicks,
s.flight discount, s.flight discount amount, s.hotel discount, s.hotel discount amount,
s.flight booked, s.hotel booked, s.cancellation,
u.birthdate, u.gender, u.married, u.has_children, u.home_country, u.home_city, u.home_airport,
u.home airport lat, u.home airport lon,u.sign up date,
f.origin airport, f.destination, f.destination airport, f.seats, f.return flight booked,
f.departure time, f.return time, f.checked bags, f.trip airline, f.destination airport lat,
f.destination airport lon,f.base fare usd,
h.hotel_name, h.nights, h.rooms, h.check_in_time, h.check_out_time, h.hotel_per_room_usd
FROM session 2023 s
LEFT JOIN users u
ON s.user id=u.user id
LEFT JOIN flights f
ON s.trip id=f.trip id
LEFT JOIN hotels h
ON s.trip id=h.trip id
WHERE s.user id IN (SELECT user id FROM filtered user))
SELECT *
FROM session base table
WHERE nights<0
```