TravelTide - SQL Code

```
WITH sessions 2023 AS (
 SELECT*
 FROM sessions s
 WHERE s.session start > '2023-01-04'
),
-- Users with more than 7 sessions in 2023
filtered users AS (
 SELECT s.user_id, COUNT(*) AS session_count
 FROM sessions 2023 s
 GROUP BY s.user id
 HAVING COUNT(*) > 7
),
categorized_customers AS (
  SELECT
    u.user id,
    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,
    COUNT(DISTINCT s.session id) AS session count,
    COUNT(DISTINCT f.trip_id) AS flight_count,
    COUNT(DISTINCT h.trip id) AS hotel count,
    AVG(f.base fare usd) AS avg flight fare,
    AVG(h.hotel_per_room_usd) AS avg_hotel_fare,
    SUM(CASE WHEN s.flight discount THEN 1 ELSE 0 END) AS session flight discounts,
    SUM(CASE WHEN s.hotel_discount THEN 1 ELSE 0 END) AS session_hotel_discounts,
    MAX(f.seats) AS max seats,
    MAX(h.rooms) AS max rooms,
    -- Check if the user prefers local travel
    COUNT(CASE WHEN f.destination = u.home country THEN 1 ELSE NULL END) AS
local travel count
  FROM users u
  JOIN filtered_users fu ON fu.user_id = u.user_id
```

```
LEFT JOIN sessions 2023 s ON u.user id = s.user id
  LEFT JOIN flights f ON s.trip_id = f.trip_id
  LEFT JOIN hotels h ON f.trip id = h.trip id
  GROUP BY u.user id
),
final classification AS (
  SELECT
    CASE
       WHEN flight count > 3 AND session flight discounts > 2 THEN 'Frequent Flyer'
       WHEN (married = TRUE OR has children = TRUE) AND max seats > 1 AND
max rooms >= 1 THEN 'Family Traveler'
       WHEN session flight discounts > 1 AND session hotel discounts > 1 THEN 'Budget
Traveler'
       WHEN avg flight fare > 800 OR avg hotel fare > 500 THEN 'Luxury Traveler'
       WHEN max seats >= 1 AND max rooms >= 1 AND flight count > 3 THEN 'Business
Traveler'
                                  WHEN max seats = 1 AND flight count >= 1 THEN 'Solo
Travellers'
       WHEN max seats >= 3 AND max rooms >= 2 THEN 'The Groupies'
       WHEN max seats >= 2 THEN 'The Explorers'
       ELSE 'Uncharacterizable'
    END AS customer category
  FROM
    categorized_customers
assigned perks AS (
  SELECT
    CASE customer_category
       WHEN 'Frequent Flyer' THEN 'Priority boarding'
       WHEN 'Family Traveler' THEN 'Family discount'
       WHEN 'Budget Traveler' THEN 'Extra discount on flights/hotels'
       WHEN 'Luxury Traveler' THEN 'Access to VIP lounges'
       WHEN 'Business Traveler' THEN 'Free business lounge access'
       WHEN 'Solo Travellers' THEN '100 loyalty points'
       WHEN 'The Groupies' THEN 'Hotel discount'
       WHEN 'The Explorers' THEN 'Free coupons'
    END AS perks
  FROM
    final classification
 --where max_seats is not NULL
Select * from assigned_perks
```