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1 CREATE OR REPLACE VIEW flights_on_2025_09_29 AS
2 SELECT *
3 FROM flights
4 WHERE sch_departure_time::date = DATE '2025-09-29';
5
6 CREATE OR REPLACE VIEW bookings_next_7_days AS
7 SELECT b.*
8 FROM booking b
9 JOIN flights f ON f.flight_id = b.flight_id
10 WHERE f.sch_departure_time::date BETWEEN CURRENT_DATE AND CURRENT_DATE + INTERVAL '7 d'
11
12 CREATE OR REPLACE VIEW top5_routes_by_bookings AS
13 SELECT
14     f.departing_airport_id,
15     ap_from.airport_name AS departure_airport,
16     f.arriving_airport_id,
17     ap_to.airport_name AS arrival_airport,
18     COUNT(*) AS bookings_count
19 FROM booking b
20 JOIN flights f ON f.flight_id = b.flight_id
21 JOIN airport ap_from ON ap_from.airport_id = f.departing_airport_id
22 JOIN airport ap_to ON ap_to.airport_id = f.arriving_airport_id
23 GROUP BY
24     f.departing_airport_id,
25     ap_from.airport_name,
26     f.arriving_airport_id,
27     ap_to.airport_name
28 ORDER BY bookings_count DESC
29 LIMIT 5;
30
31 CREATE OR REPLACE VIEW kazair_flights AS
32 SELECT f.*
33 FROM flights f
34 JOIN airline a ON a.airline_id = f.airline_id
35 WHERE a.airline_name = 'KazAir';
36
37 CREATE OR REPLACE VIEW kazair_flights_next_7_days AS
38 SELECT f.*
39 FROM flights f
40 JOIN airline a ON a.airline_id = f.airline_id
41 WHERE a.airline_name = 'KazAir'
42 AND f.sch_departure_time::date BETWEEN CURRENT_DATE AND CURRENT_DATE + INTERVAL '7 d'
43
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43
44 CREATE OR REPLACE VIEW flights_delayed_more_than_24h AS
45 SELECT *
46 FROM flights
47 WHERE act_departure_time IS NOT NULL
48 AND act_departure_time - sch_departure_time > INTERVAL '24 hours';
49
50 CREATE OR REPLACE VIEW leffler_thompson_passengers AS
51 SELECT DISTINCT
52     p.passenger_id,
53     p.first_name,
54     p.last_name,
55     p.country_of_citizenship AS country_of_origin
56 FROM booking b
57 JOIN passengers p ON p.passenger_id = b.passenger_id
58 WHERE b.booking_platform = 'Leffler-Thompson';
59
60 CREATE OR REPLACE VIEW top10_visited_countries AS
61 SELECT
62     ap.country,
63     COUNT(*) AS total_bookings
64 FROM booking b
65 JOIN flights f ON f.flight_id = b.flight_id
66 JOIN airport ap ON ap.airport_id = f.arriving_airport_id
67 GROUP BY ap.country
68 ORDER BY total_bookings DESC
69 LIMIT 10;
70
71 INSERT INTO booking (flight_id, passenger_id, booking_platform, created_at, updated_at)
72 VALUES (1001, 1, 'Leffler-Thompson', NOW(), NOW(), 'paid', 15000);
73
74 SELECT * FROM leffler_thompson_passengers;
75
76 DROP VIEW IF EXISTS
77     flights_on_2025_09_29,
78     bookings_next_7_days,
79     top5_routes_by_bookings,
80     kazair_flights,
81     kazair_flights_next_7_days,
82     flights_delayed_more_than_24h,
83     leffler_thompson_passengers,
84     top10_visited_countries
85 CASCADE;
```