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lab7=# CREATE OR REPLACE VIEW top_10_profitable_flights AS
lab7=# SELECT
lab7=#   bf.flight_id,
lab7=#   COUNT(bp.boarding_pass_id) AS total_revenue
lab7=# FROM booking_flight bf
lab7=# JOIN booking b
lab7=#   ON bf.booking_id = b.booking_id
lab7=# JOIN boarding_pass bp
lab7=#   ON bp.booking_id = b.booking_id
lab7=# GROUP BY bf.flight_id
lab7=# ORDER BY total_revenue DESC
lab7=# LIMIT 10;
CREATE VIEW

lab7=# CREATE OR REPLACE VIEW recent_year_passengers AS
lab7=# SELECT DISTINCT
lab7=#   p.passenger_id,
lab7=#   p.first_name,
lab7=#   p.last_name,
lab7=#   p.passport_number
lab7=# FROM passengers p
lab7=# JOIN booking b ON p.passenger_id = b.passenger_id
lab7=# JOIN booking_flight bf ON b.booking_id = bf.booking_id
lab7=# JOIN flights f ON bf.flight_id = f.flight_id
lab7=# WHERE f.scheduled_departure >= NOW() - INTERVAL '1 year';
CREATE VIEW

lab7=# CREATE OR REPLACE VIEW flights_per_airline AS
lab7=# SELECT
lab7=#   a.airline_id,
lab7=#   a.airline_name,
lab7=#   COUNT(f.flight_id) AS flight_count
lab7=# FROM airline a
lab7=# LEFT JOIN flights f ON a.airline_id = f.airline_id
lab7=# GROUP BY a.airline_id, a.airline_name
lab7=# ORDER BY flight_count DESC;
CREATE VIEW

lab7=# CREATE OR REPLACE VIEW passenger_flight_counts AS
lab7=# SELECT
lab7=#   p.passenger_id,
lab7=#   p.first_name,
lab7=#   p.last_name,
lab7=#   COUNT(bf.flight_id) AS total_flights
lab7=# FROM passengers p
lab7=# JOIN booking b ON p.passenger_id = b.passenger_id
lab7=# JOIN booking_flight bf ON b.booking_id = bf.booking_id
lab7=# GROUP BY p.passenger_id, p.first_name, p.last_name
lab7=# ORDER BY total_flights DESC;
CREATE VIEW

lab7=# CREATE OR REPLACE VIEW top_5_destinations AS
lab7=# SELECT
lab7=#   bf.flight_id,
lab7=#   COUNT(bp.boarding_pass_id) AS tickets_sold
lab7=# FROM booking_flight bf
lab7=# JOIN booking b ON bf.booking_id = b.booking_id
lab7=# JOIN boarding_pass bp ON bp.booking_id = b.booking_id
lab7=# GROUP BY bf.flight_id
lab7=# ORDER BY tickets_sold DESC
lab7=# LIMIT 5;
CREATE VIEW

lab7=# CREATE OR REPLACE VIEW frequent_passengers AS
lab7=# SELECT *
lab7=# FROM passenger_flight_counts
lab7=# WHERE total_flights > 3;
CREATE VIEW

lab7=# CREATE OR REPLACE VIEW delayed_flights AS
lab7=# SELECT
lab7=#   f.flight_id,
lab7=#   f.scheduled_arrival,
lab7=#   f.actual_arrival,
lab7=#   (f.actual_arrival - f.scheduled_arrival) AS delay_minutes
lab7=# FROM flights f
lab7=# WHERE f.actual_arrival IS NOT NULL
lab7=# AND (f.actual_arrival - f.scheduled_arrival) > 60;
CREATE VIEW

lab7=# DROP VIEW IF EXISTS top_10_profitable_flights;
DROP VIEW
lab7=# DROP VIEW IF EXISTS recent_year_passengers;
DROP VIEW
lab7=# DROP VIEW IF EXISTS flights_per_airline;
DROP VIEW
lab7=# DROP VIEW IF EXISTS passenger_flight_counts;
ERROR: cannot drop view passenger_flight_counts because other objects depend on it
DETAIL:  view frequent_passengers depends on view passenger_flight_counts
HINT:  Use DROP ... CASCADE to drop the dependent objects too.
lab7=# DROP VIEW IF EXISTS top_5_destinations;
DROP VIEW
lab7=# DROP VIEW IF EXISTS frequent_passengers;
DROP VIEW
lab7=# DROP VIEW IF EXISTS delayed_flights;
DROP VIEW

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