

SQL SCRIPT

Step 1: Aggregate DB1B by route and quarter

```
CREATE TABLE db1b_grouped AS  
SELECT  
    YEAR,  
    QUARTER,  
    ORIGIN,  
    DEST,  
    AVG(MARKET_FARE) AS AVG_MARKET_FARE  
FROM db1b_market  
GROUP BY YEAR, QUARTER, ORIGIN, DEST;
```

Step 2: Aggregate T-100 data by route and quarter

```
CREATE TABLE t100_grouped AS  
SELECT  
    YEAR,  
    QUARTER,  
    ORIGIN,  
    DEST,  
    UNIQUE_CARRIER,  
    SUM(TOTAL_PASSENGERS) AS TOTAL_PASSENGERS,  
    SUM(TOTAL_SEATS) AS TOTAL_SEATS,  
    SUM(DEPARTURES) AS DEPARTURES,  
    AVG(DISTANCE) AS DISTANCE  
FROM t100_segment  
WHERE NOT (YEAR = 2025 AND QUARTER = 2) -- Exclude Q2 2025
```

GROUP BY YEAR, QUARTER, ORIGIN, DEST, UNIQUE_CARRIER;

Step 3: Join aggregated T-100 with DB1B fare data and filter for Avelo (XP)

CREATE TABLE avelo_route_performance AS

SELECT

t.YEAR,

t.QUARTER,

t.ORIGIN,

t.DEST,

t.UNIQUE_CARRIER,

t.TOTAL_PASSENGERS,

t.TOTAL_SEATS,

t.DEPARTURES,

t.DISTANCE,

d.AVG_MARKET_FARE

FROM t100_grouped t

LEFT JOIN db1b_grouped d

ON t.YEAR = d.YEAR

AND t.QUARTER = d.QUARTER

AND t.ORIGIN = d.ORIGIN

AND t.DEST = d.DEST

WHERE t.UNIQUE_CARRIER = 'XP';

Step 4: Remove irrelevant or null rows

DELETE FROM avelo_route_performance

WHERE TOTAL_PASSENGERS = 0;

```
DELETE FROM avelo_route_performance  
WHERE AVG_MARKET_FARE IS NULL;
```

Step 5: Add and populate route column (for convenience)

```
ALTER TABLE avelo_route_performance  
ADD COLUMN ROUTE TEXT;
```

```
UPDATE avelo_route_performance  
SET ROUTE = ORIGIN || '-' || DEST;
```

Step 6: Count directionless unique routes in 2024 (sanity check)

```
SELECT COUNT(DISTINCT  
  CASE  
    WHEN ORIGIN < DEST THEN ORIGIN || '-' || DEST  
    ELSE DEST || '-' || ORIGIN  
  )  
  ) AS unique_directionless_routes_2024  
FROM avelo_route_performance  
WHERE YEAR = 2024  
AND DEPARTURES > 5;
```