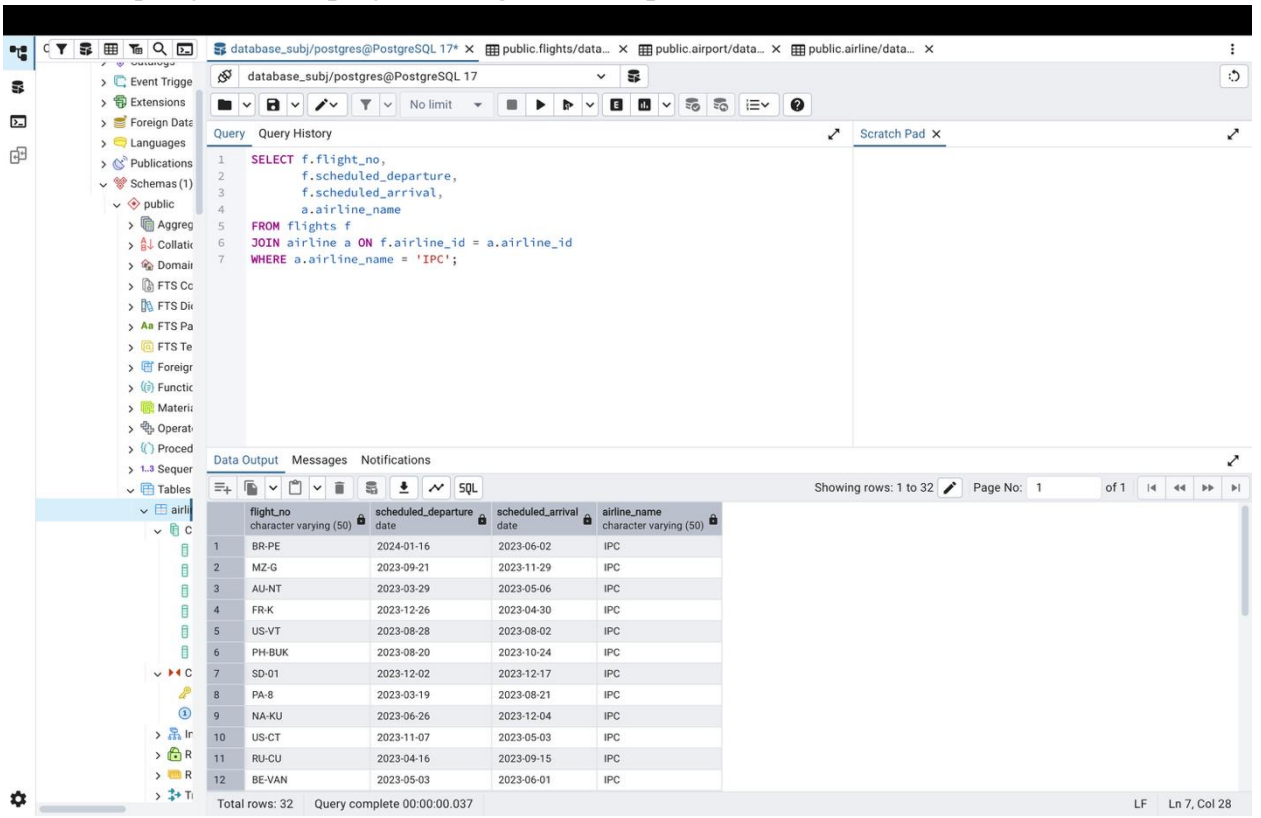
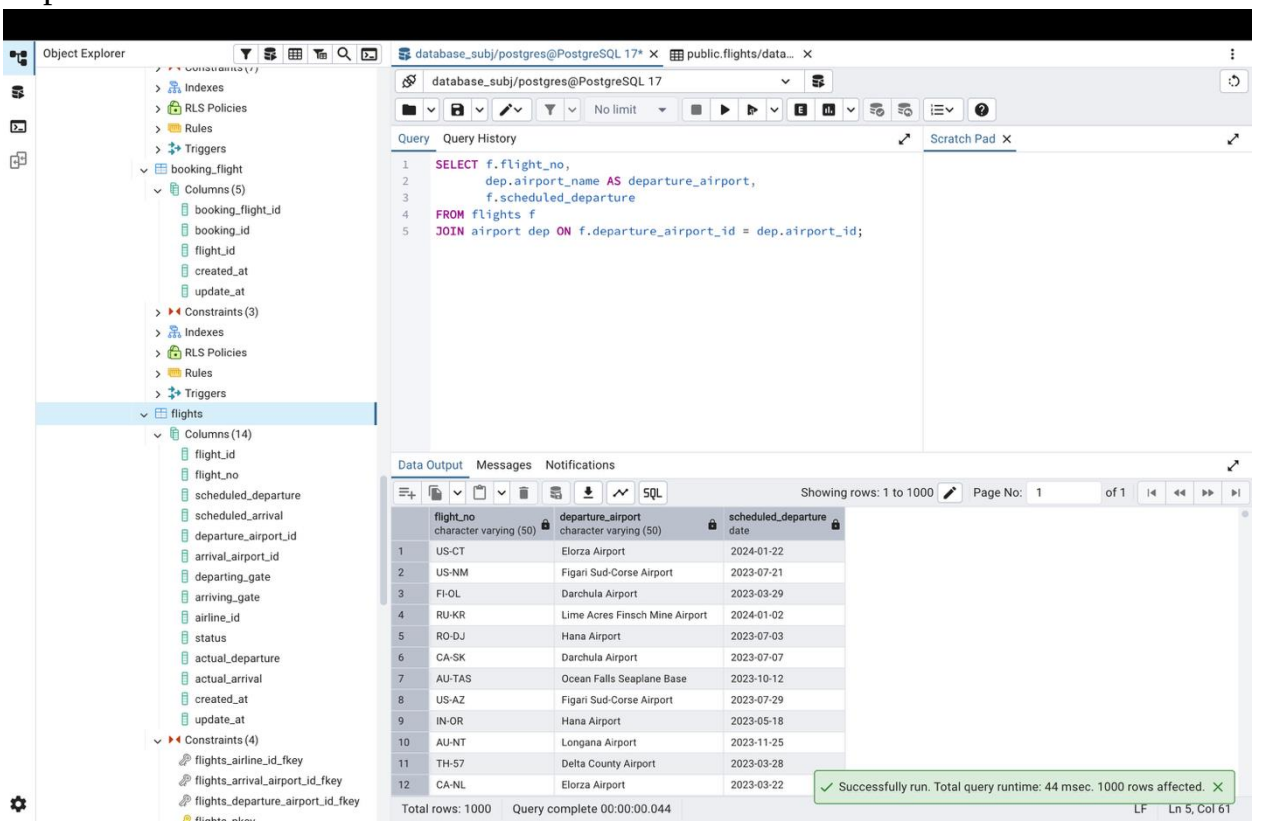
Laboratory work 6
JOIN operations tasks

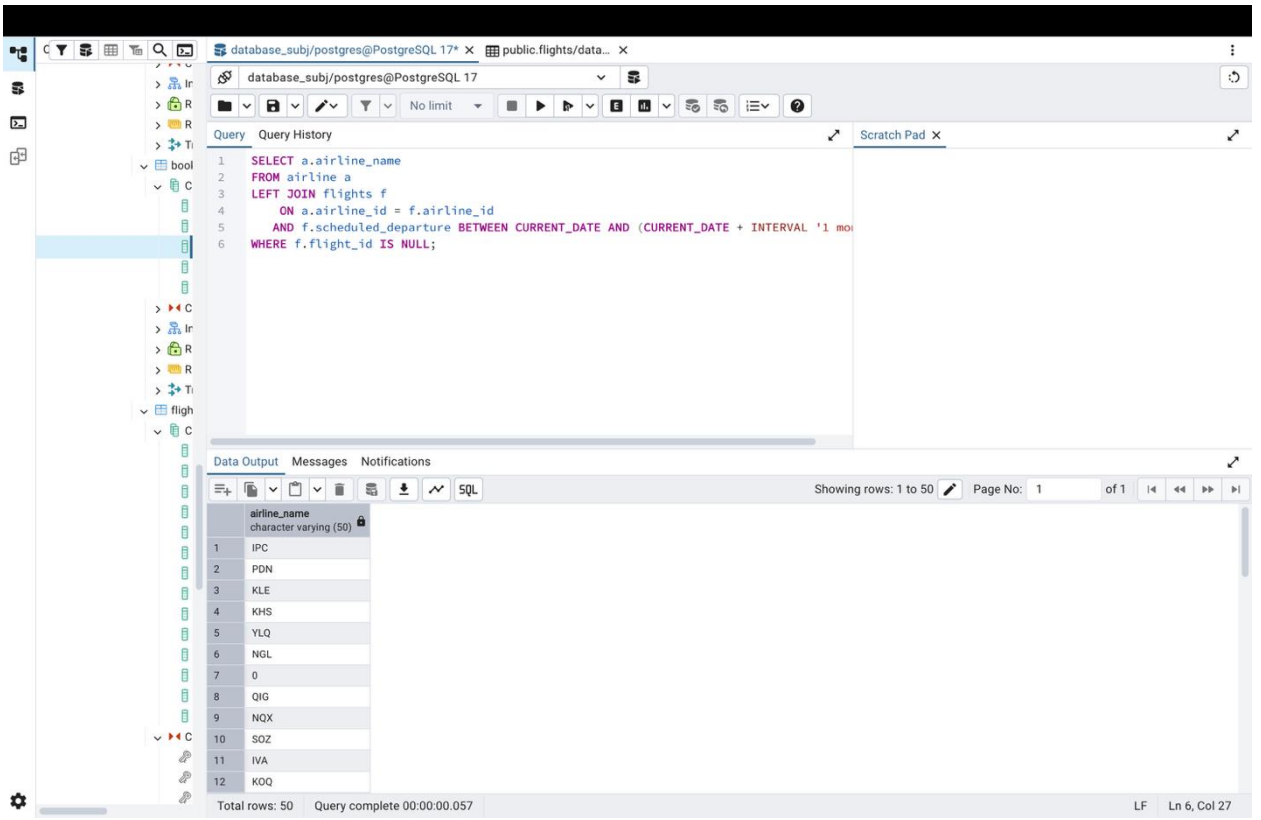
1. Write a query that displays all flights of a specific airline.



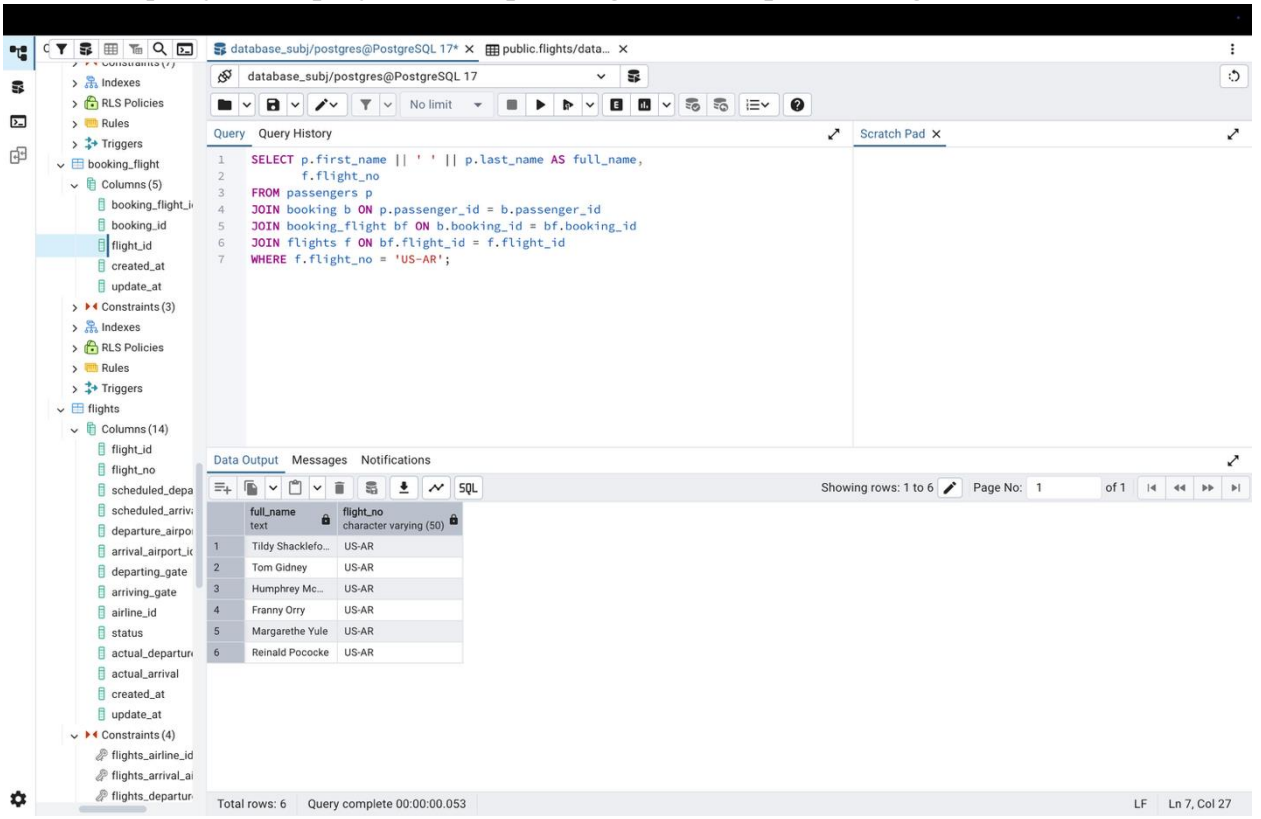
2. Compose a query to obtain a list of all flights with the names of departure airports.



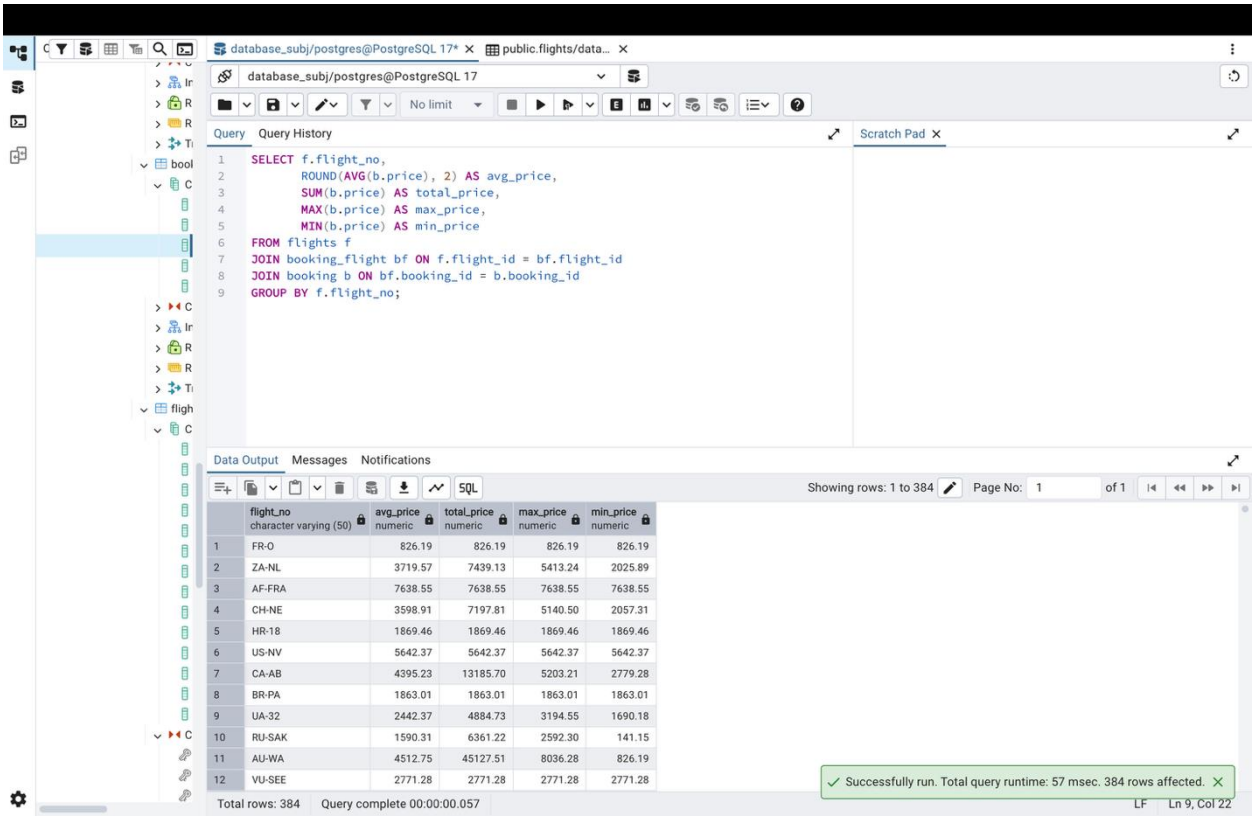
3. Create a query that finds all airlines that have no flights scheduled for the next month.



4. Create a query to display a list of passengers on a specific flight.



5. Write a query that calculates the average, total, maximum and minimum price of tickets for each flight.

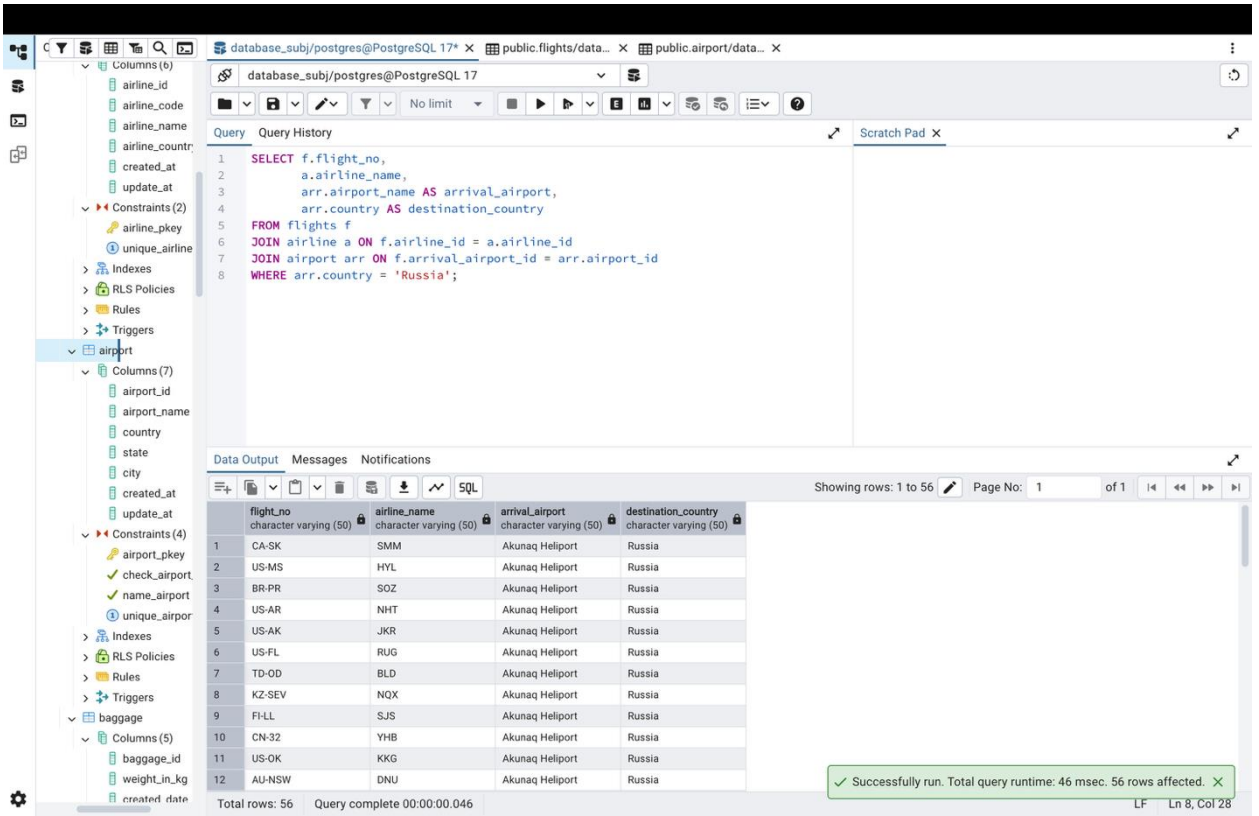


```
SELECT f.flight_no,
       ROUND(AVG(b.price), 2) AS avg_price,
       SUM(b.price) AS total_price,
       MAX(b.price) AS max_price,
       MIN(b.price) AS min_price
FROM flights f
JOIN booking_flight bf ON f.flight_id = bf.flight_id
JOIN booking b ON bf.booking_id = b.booking_id
GROUP BY f.flight_no;
```

flight_no character varying (50)	avg_price numeric	total_price numeric	max_price numeric	min_price numeric
1 FR-O	826.19	826.19	826.19	826.19
2 ZA-NL	3719.57	7439.13	5413.24	2025.89
3 AF-FRA	7638.55	7638.55	7638.55	7638.55
4 CH-NE	3598.91	7197.81	5140.50	2057.31
5 HR-18	1869.46	1869.46	1869.46	1869.46
6 US-NV	5642.37	5642.37	5642.37	5642.37
7 CA-AB	4395.23	13185.70	5203.21	2779.28
8 BR-PA	1863.01	1863.01	1863.01	1863.01
9 UA-32	2442.37	4884.73	3194.55	1690.18
10 RU-SAK	1590.31	6361.22	2592.30	141.15
11 AU-WA	4512.75	45127.51	8036.28	826.19
12 VU-SEE	2771.28	2771.28	2771.28	2771.28

Total rows: 384 Query complete 00:00:00.057 Ln 9, Col 22

6. Create a query that shows all flights flying to a specific country by combining flights, airports and airline, and using the condition on the country name.

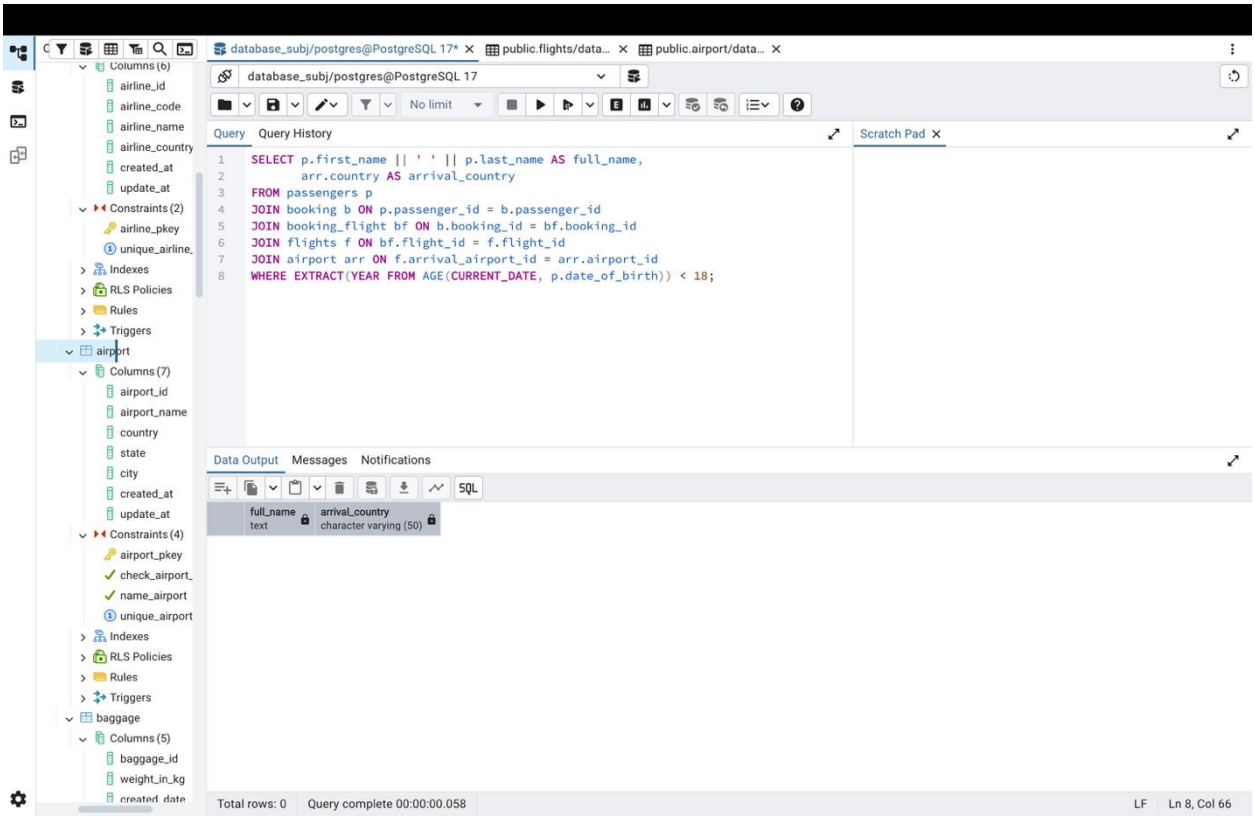


```
SELECT f.flight_no,
       a.airline_name,
       arr.airport_name AS arrival_airport,
       arr.country AS destination_country
FROM flights f
JOIN airline a ON f.airline_id = a.airline_id
JOIN airport arr ON f.arrival_airport_id = arr.airport_id
WHERE arr.country = 'Russia';
```

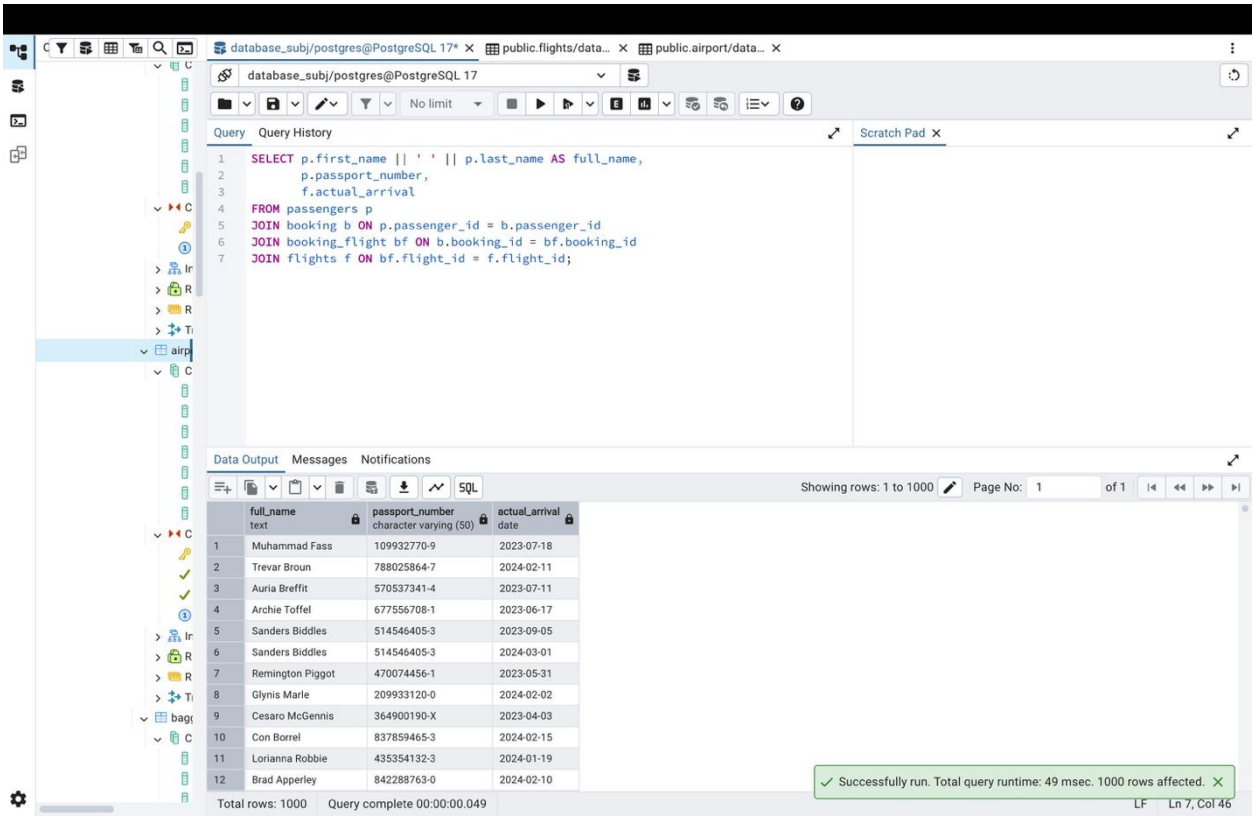
flight_no character varying (50)	airline_name character varying (50)	arrival_airport character varying (50)	destination_country character varying (50)
1 CA-SK	SMM	Akunaq Heliport	Russia
2 US-MS	HYL	Akunaq Heliport	Russia
3 BR-PR	SOZ	Akunaq Heliport	Russia
4 US-AR	NHT	Akunaq Heliport	Russia
5 US-AK	JKR	Akunaq Heliport	Russia
6 US-FL	RUG	Akunaq Heliport	Russia
7 TD-OD	BLD	Akunaq Heliport	Russia
8 KZ-SEV	NQX	Akunaq Heliport	Russia
9 FI-LL	SJS	Akunaq Heliport	Russia
10 CN-32	YHB	Akunaq Heliport	Russia
11 US-OK	KKG	Akunaq Heliport	Russia
12 AU-NSW	DNU	Akunaq Heliport	Russia

Total rows: 56 Query complete 00:00:00.046 Ln 8, Col 28

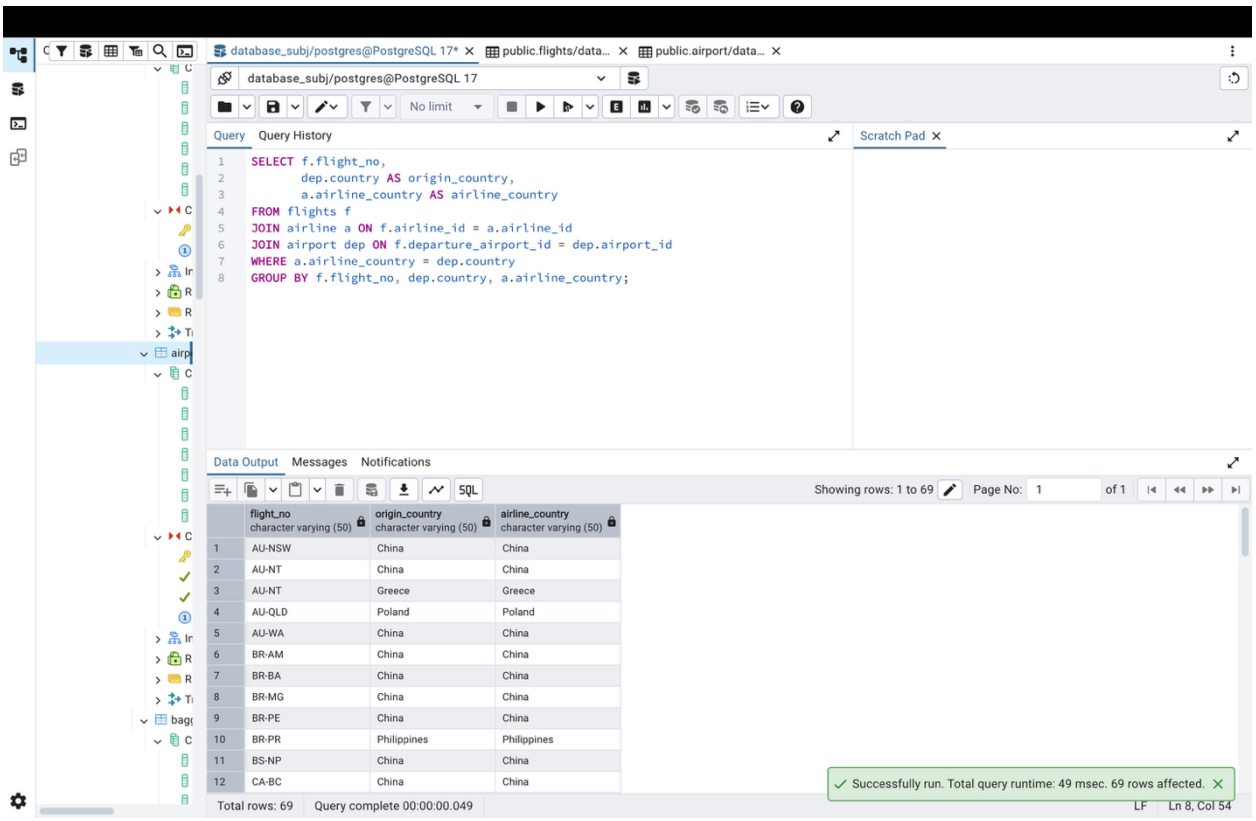
7. Display a list of minor passengers and their arrival destination.



8. Display the passenger's full name, passport number, and the passenger's current time of arrival at the destination.



9. Print a list of flights where the airline's home country and origin country are the same. Group them by the airport country.


database_subj/postgres@PostgreSQL 17*
public.flights/data...
public.airport/data...
database_subj/postgres@PostgreSQL 17
No limit
Query
Query History
Scratch Pad
SELECT f.flight_no,
dep.country AS origin_country,
a.airline_country AS airline_country
FROM flights f
JOIN airline a ON f.airline_id = a.airline_id
JOIN airport dep ON f.departure_airport_id = dep.airport_id
WHERE a.airline_country = dep.country
GROUP BY f.flight_no, dep.country, a.airline_country;
Data Output
Messages
Notifications
SQL
Showing rows: 1 to 69
Page No: 1
of 1
flight_no character varying (50)
origin_country character varying (50)
airline_country character varying (50)
1 AU-NSW China China
2 AU-NT China China
3 AU-NT Greece Greece
4 AU-QLD Poland Poland
5 AU-WA China China
6 BR-AM China China
7 BR-BA China China
8 BR-MG China China
9 BR-PE China China
10 BR-PR Philippines Philippines
11 BS-NP China China
12 CA-BC China China
Successfully run. Total query runtime: 49 msec. 69 rows affected.
Total rows: 69
Query complete 00:00:00.049
LF
Ln 8, Col 54