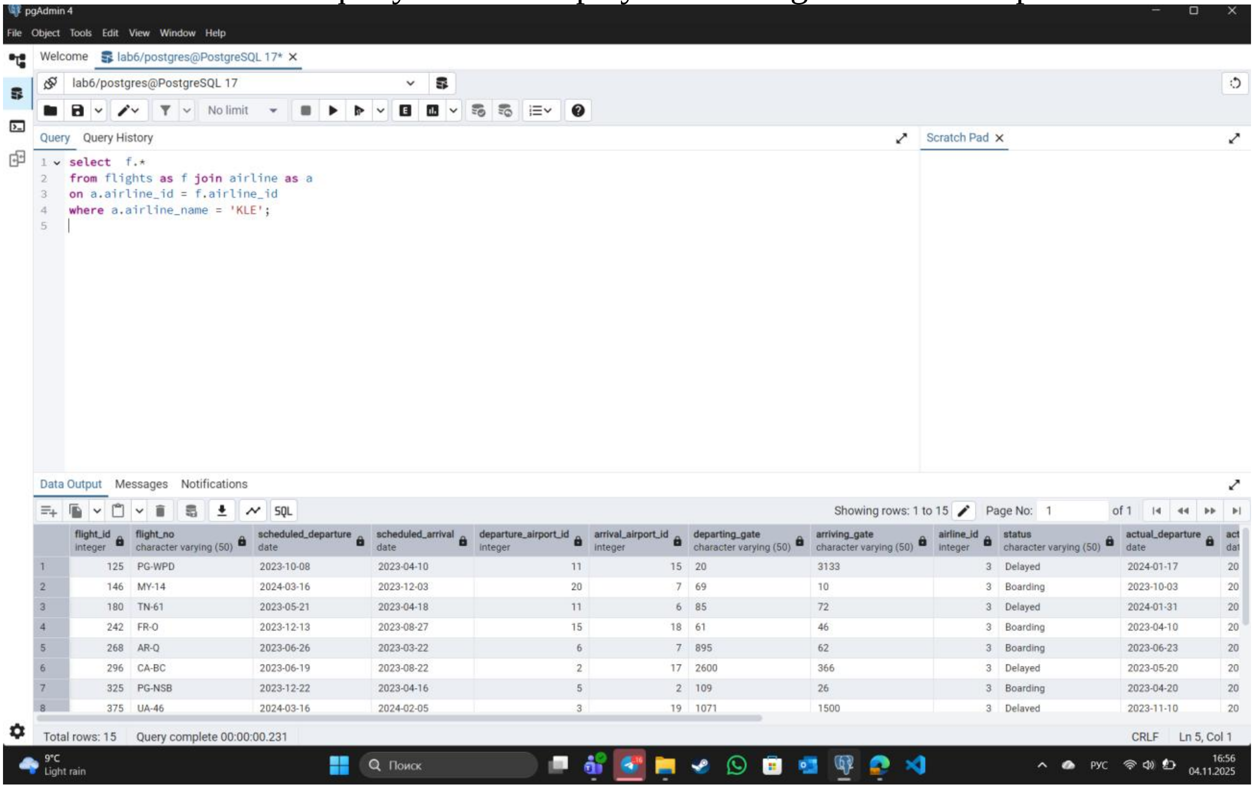
1. Write a query that displays all flights of a specific airline.



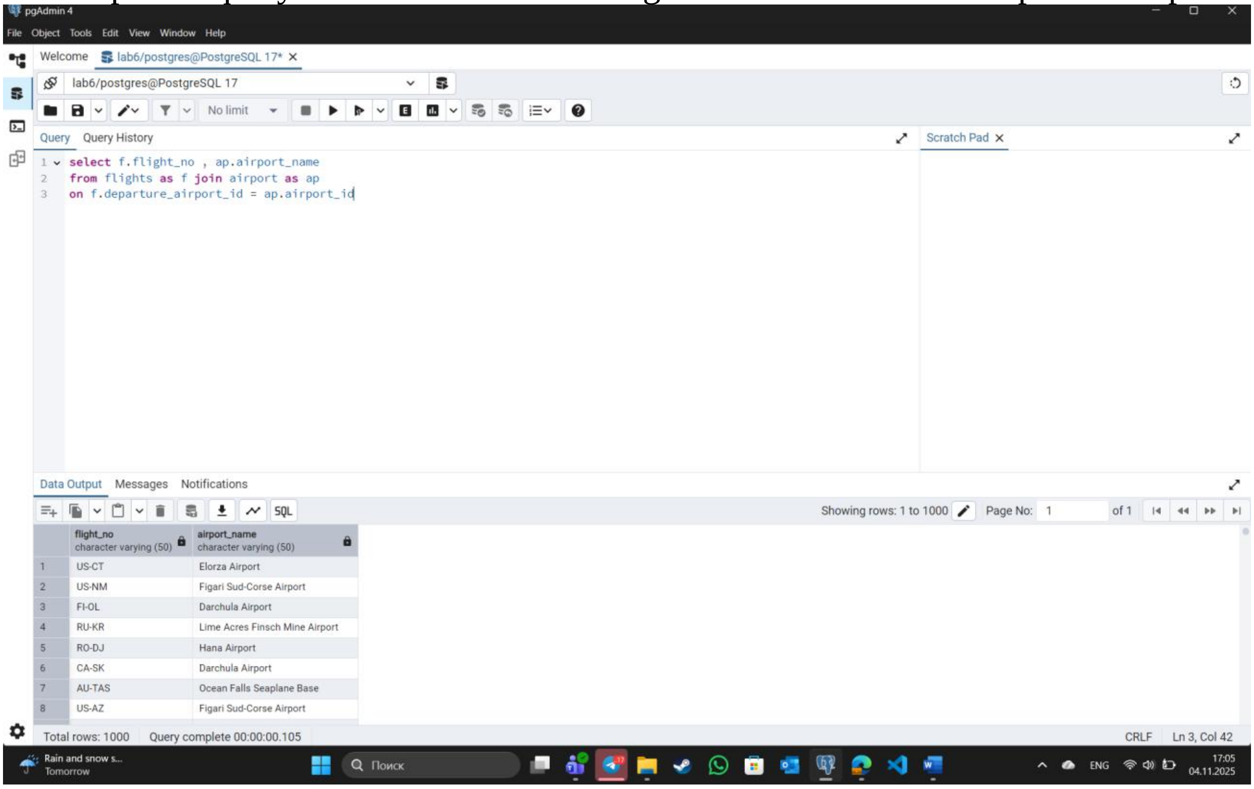
```
select  f.*
from flights as f join airline as a
on a.airline_id = f.airline_id
where a.airline_name = 'KLE';

```

	flight_id integer	flight_no character varying (50)	scheduled_departure date	scheduled_arrival date	departure_airport_id integer	arrival_airport_id integer	departing_gate character varying (50)	arriving_gate character varying (50)	airline_id integer	status character varying (50)	actual_departure date	act dat
1	125	PG-WPD	2023-10-08	2023-04-10	11	15	20	3133	3	Delayed	2024-01-17	20
2	146	MY-14	2024-03-16	2023-12-03	20	7	69	10	3	Boarding	2023-10-03	20
3	180	TN-61	2023-05-21	2023-04-18	11	6	85	72	3	Delayed	2024-01-31	20
4	242	FR-O	2023-12-13	2023-08-27	15	18	61	46	3	Boarding	2023-04-10	20
5	268	AR-Q	2023-06-26	2023-03-22	6	7	895	62	3	Boarding	2023-06-23	20
6	296	CA-BC	2023-06-19	2023-08-22	2	17	2600	366	3	Delayed	2023-05-20	20
7	325	PG-NSB	2023-12-22	2023-04-16	5	2	109	26	3	Boarding	2023-04-20	20
8	375	UA-46	2024-03-16	2024-02-05	3	19	1071	1500	3	Delayed	2023-11-10	20

Showing rows: 1 to 15 Page No: 1 of 1

Total rows: 15 Query complete 00:00:00.231

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



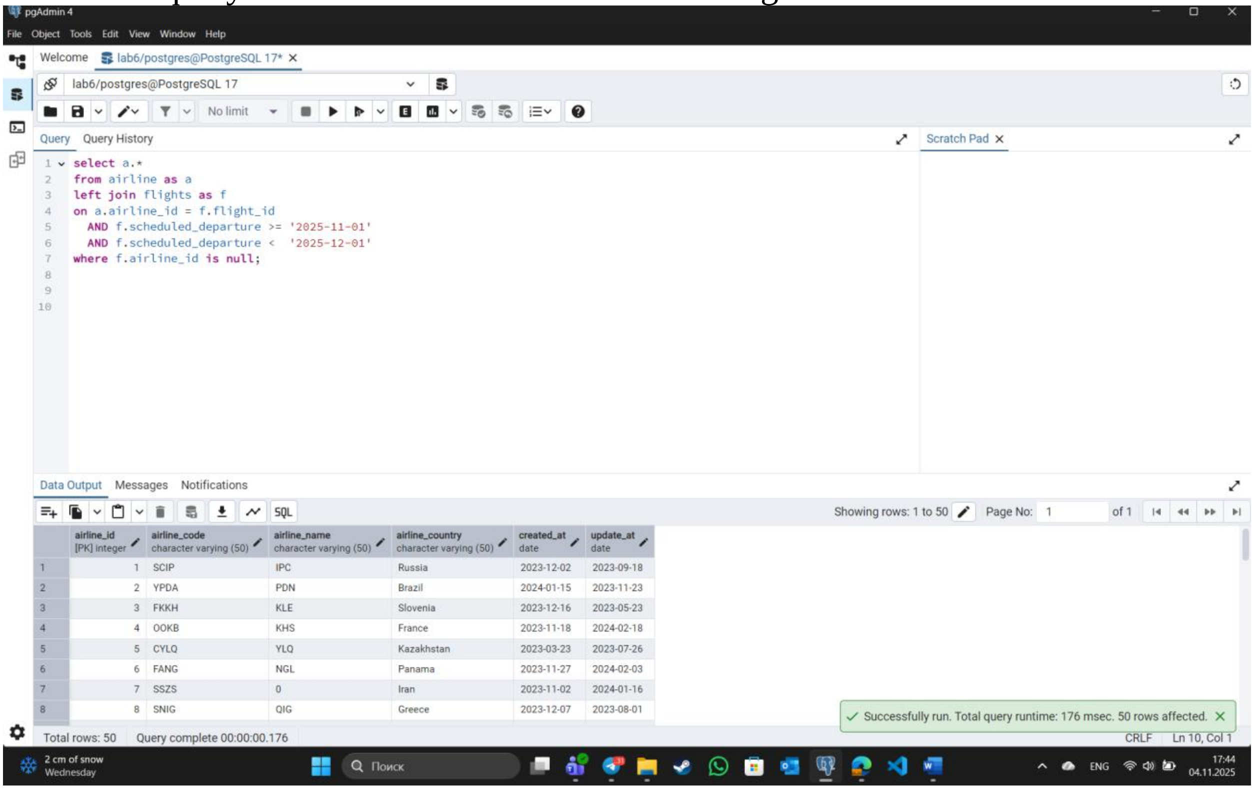
```
select f.flight_no , ap.airport_name
from flights as f join airport as ap
on f.departure_airport_id = ap.airport_id
```

	flight_no character varying (50)	airport_name character varying (50)
1	US-CT	Elorza Airport
2	US-NM	Figari Sud-Corse Airport
3	FI-OL	Darchula Airport
4	RU-KR	Lime Acres Finsch Mine Airport
5	RO-DJ	Hana Airport
6	CA-SK	Darchula Airport
7	AU-TAS	Ocean Falls Seaplane Base
8	US-AZ	Figari Sud-Corse Airport

Showing rows: 1 to 1000 Page No: 1 of 1

Total rows: 1000 Query complete 00:00:00.105

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


pgAdmin 4
File Object Tools Edit View Window Help
Welcome
lab6/postgres@PostgreSQL 17*
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No limit
Query Query History
Scratch Pad
Data Output Messages Notifications
Showing rows: 1 to 50 Page No: 1 of 1
2 cm of snow
Wednesday
Поиск
ENG
17:44
04.11.2025

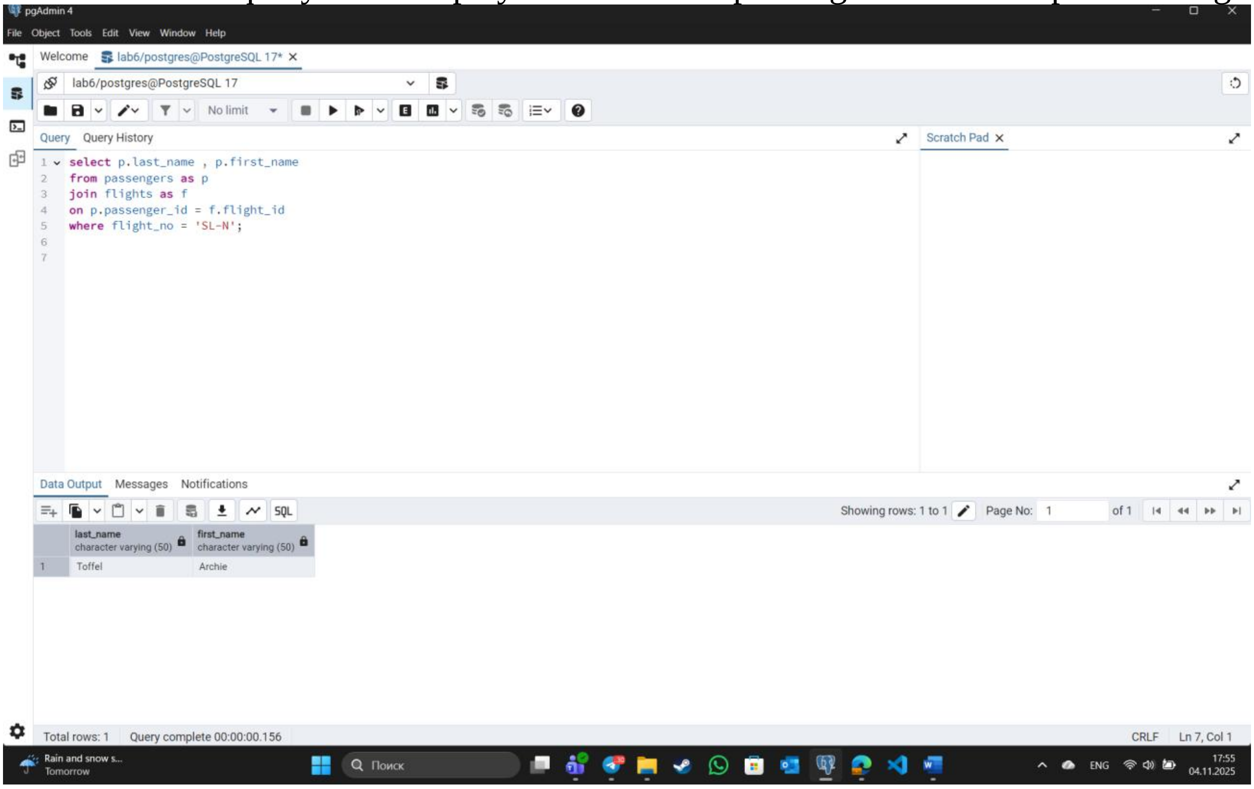
```
select a.*
from airline as a
left join flights as f
on a.airline_id = f.flight_id
  AND f.scheduled_departure >= '2025-11-01'
  AND f.scheduled_departure <  '2025-12-01'
where f.airline_id is null;
```

	airline_id [PK] integer	airline_code character varying (50)	airline_name character varying (50)	airline_country character varying (50)	created_at date	update_at date
1	1	SCIP	IPC	Russia	2023-12-02	2023-09-18
2	2	YPDA	PDN	Brazil	2024-01-15	2023-11-23
3	3	FKKH	KLE	Slovenia	2023-12-16	2023-05-23
4	4	OOKB	KHS	France	2023-11-18	2024-02-18
5	5	CYLQ	YLQ	Kazakhstan	2023-03-23	2023-07-26
6	6	FANG	NGL	Panama	2023-11-27	2024-02-03
7	7	SSZS	0	Iran	2023-11-02	2024-01-16
8	8	SNIG	QIG	Greece	2023-12-07	2023-08-01

Successfully run. Total query runtime: 176 msec. 50 rows affected.

Total rows: 50 Query complete 00:00:00.176 CRLF Ln 10, Col 1

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


pgAdmin 4
File Object Tools Edit View Window Help
Welcome
lab6/postgres@PostgreSQL 17*
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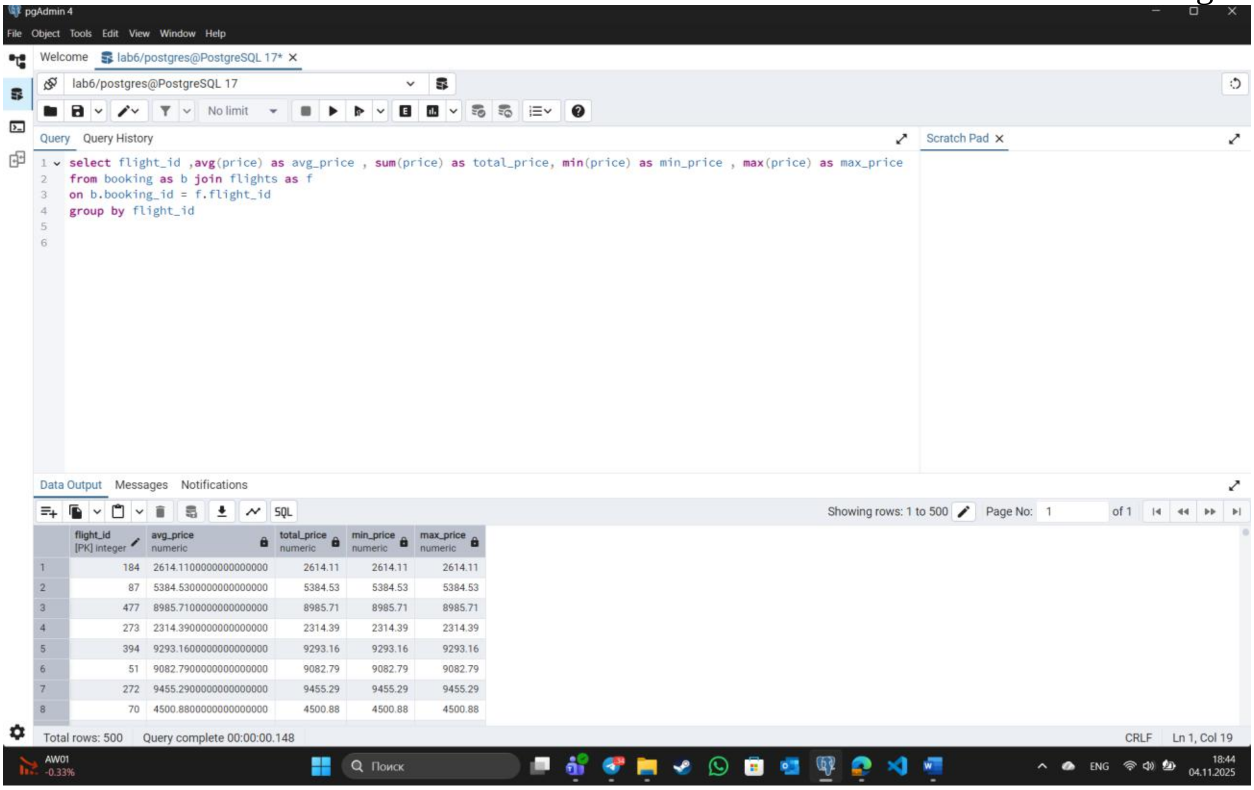
No limit
Query Query History
Scratch Pad
Data Output Messages Notifications
Showing rows: 1 to 1 Page No: 1 of 1
Rain and snow s...
Tomorrow
Поиск
ENG
17:55
04.11.2025

```
select p.last_name , p.first_name
from passengers as p
join flights as f
on p.passenger_id = f.flight_id
where flight_no = 'SL-N';
```

	last_name character varying (50)	first_name character varying (50)
1	Toffel	Archie

Total rows: 1 Query complete 00:00:00.156 CRLF Ln 7, Col 1

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

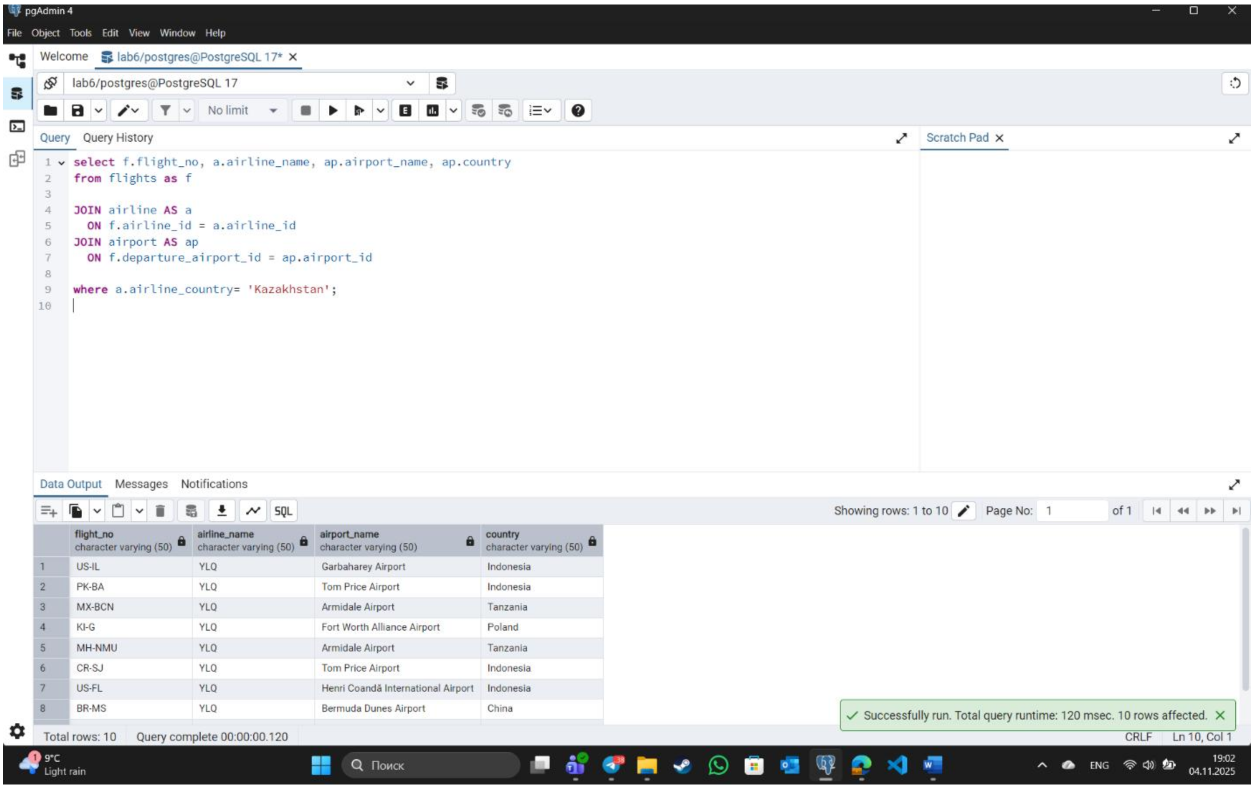


```
select flight_id ,avg(price) as avg_price , sum(price) as total_price, min(price) as min_price , max(price) as max_price
from booking as b join flights as f
on b.booking_id = f.flight_id
group by flight_id
```

	flight_id [PK] integer	avg_price numeric	total_price numeric	min_price numeric	max_price numeric
1	184	2614.1100000000000000	2614.11	2614.11	2614.11
2	87	5384.5300000000000000	5384.53	5384.53	5384.53
3	477	8985.7100000000000000	8985.71	8985.71	8985.71
4	273	2314.3900000000000000	2314.39	2314.39	2314.39
5	394	9293.1600000000000000	9293.16	9293.16	9293.16
6	51	9082.7900000000000000	9082.79	9082.79	9082.79
7	272	9455.2900000000000000	9455.29	9455.29	9455.29
8	70	4500.8800000000000000	4500.88	4500.88	4500.88

Total rows: 500 Query complete 00:00:00.148

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



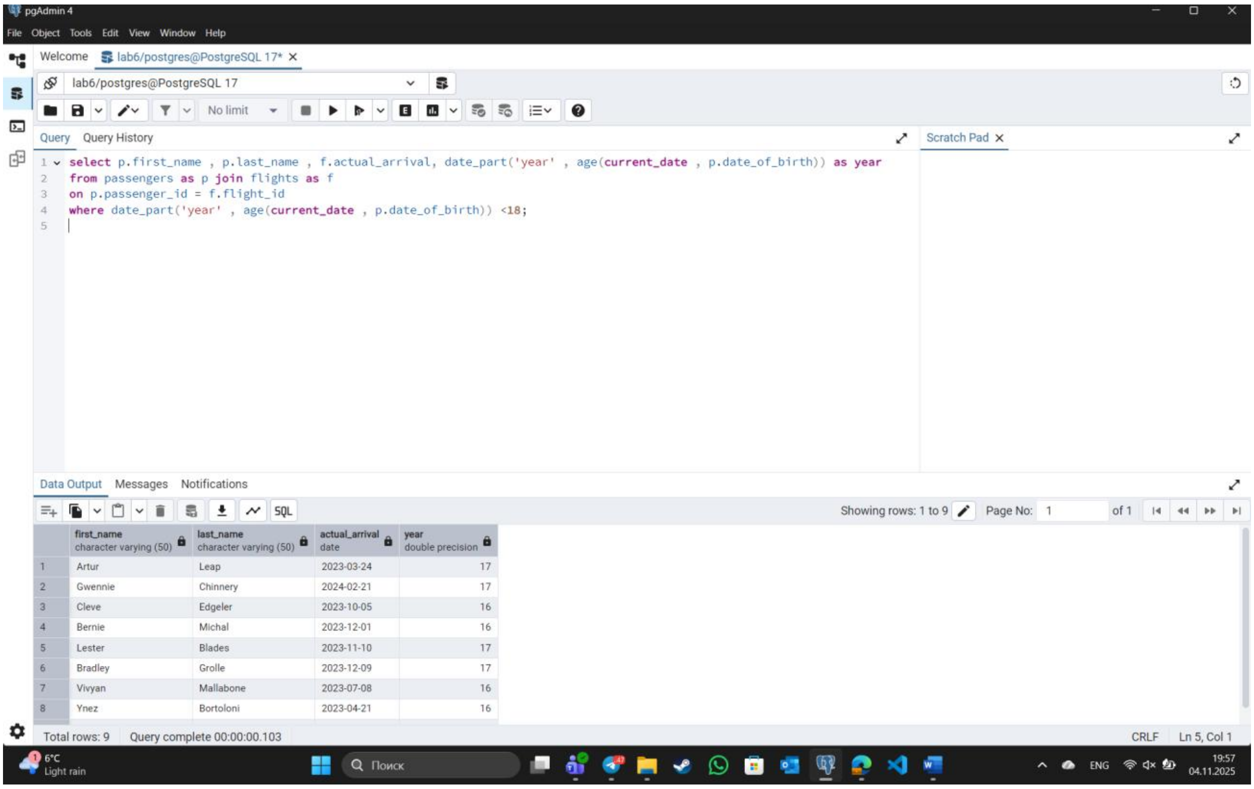
```
select f.flight_no, a.airline_name, ap.airport_name, ap.country
from flights as f

JOIN airline AS a
  ON f.airline_id = a.airline_id
JOIN airport AS ap
  ON f.departure_airport_id = ap.airport_id

where a.airline_country= 'Kazakhstan';
```

	flight_no character varying (50)	airline_name character varying (50)	airport_name character varying (50)	country character varying (50)
1	US-IL	YLQ	Garbaharey Airport	Indonesia
2	PK-BA	YLQ	Tom Price Airport	Indonesia
3	MX-BCN	YLQ	Armidale Airport	Tanzania
4	KI-G	YLQ	Fort Worth Alliance Airport	Poland
5	MH-NMU	YLQ	Armidale Airport	Tanzania
6	CR-SJ	YLQ	Tom Price Airport	Indonesia
7	US-FL	YLQ	Henri Coandă International Airport	Indonesia
8	BR-MS	YLQ	Bermuda Dunes Airport	China

✓ Successfully run. Total query runtime: 120 msec. 10 rows affected. ✕

Total rows: 10 Query complete 00:00:00.120

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



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Welcome
lab6/postgres@PostgreSQL 17*
lab6/postgres@PostgreSQL 17
No limit
Query Query History
Scratch Pad
Data Output Messages Notifications
SQL

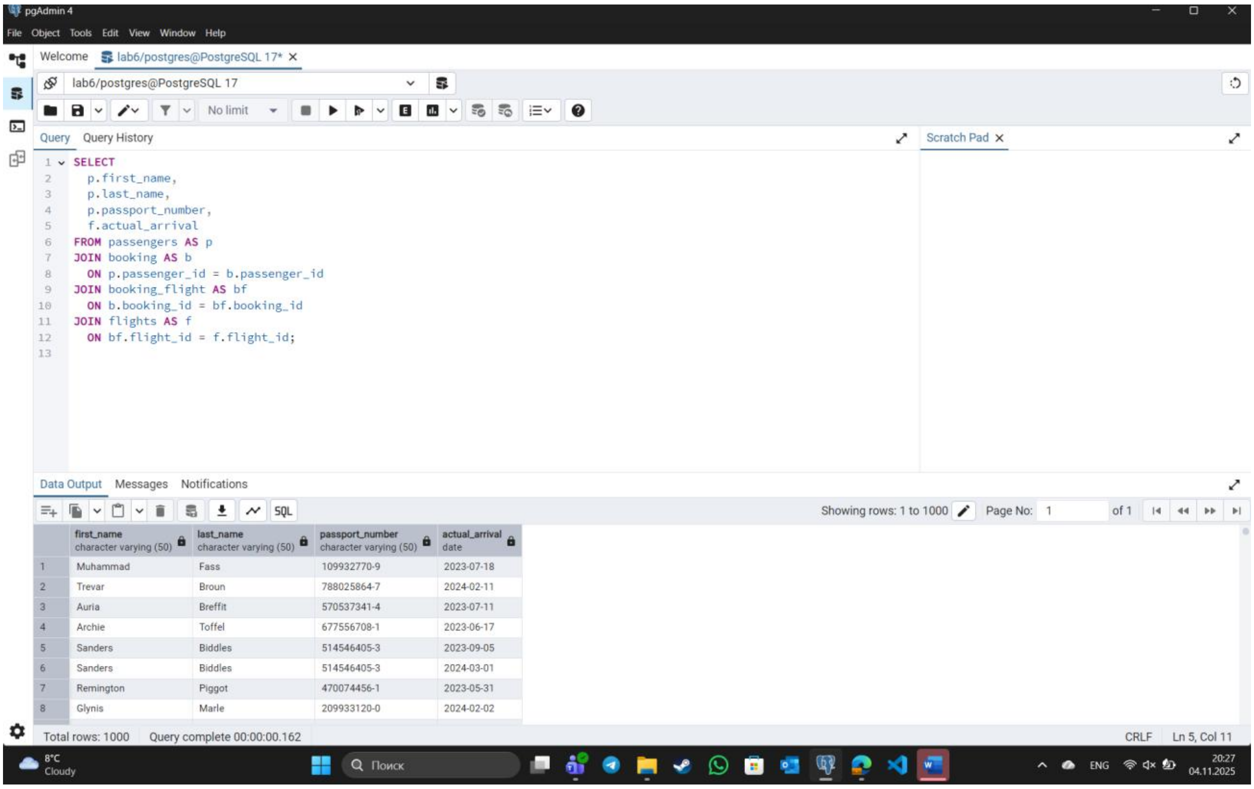
```sql
select p.first_name , p.last_name , f.actual_arrival, date_part('year' , age(current_date , p.date_of_birth)) as year
from passengers as p join flights as f
on p.passenger_id = f.flight_id
where date_part('year' , age(current_date , p.date_of_birth)) <18;
```

Showing rows: 1 to 9 Page No: 1 of 1

	first_name character varying (50)	last_name character varying (50)	actual_arrival date	year double precision
1	Artur	Leap	2023-03-24	17
2	Gwennie	Chinnery	2024-02-21	17
3	Cleve	Edgeler	2023-10-05	16
4	Bernie	Michal	2023-12-01	16
5	Lester	Blades	2023-11-10	17
6	Bradley	Grolle	2023-12-09	17
7	Vivyan	Mallabone	2023-07-08	16
8	Ynez	Bortoloni	2023-04-21	16

Total rows: 9 Query complete 00:00:00.103

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



pgAdmin 4
File Object Tools Edit View Window Help
Welcome
lab6/postgres@PostgreSQL 17*
lab6/postgres@PostgreSQL 17
No limit
Query Query History
Scratch Pad
Data Output Messages Notifications
SQL

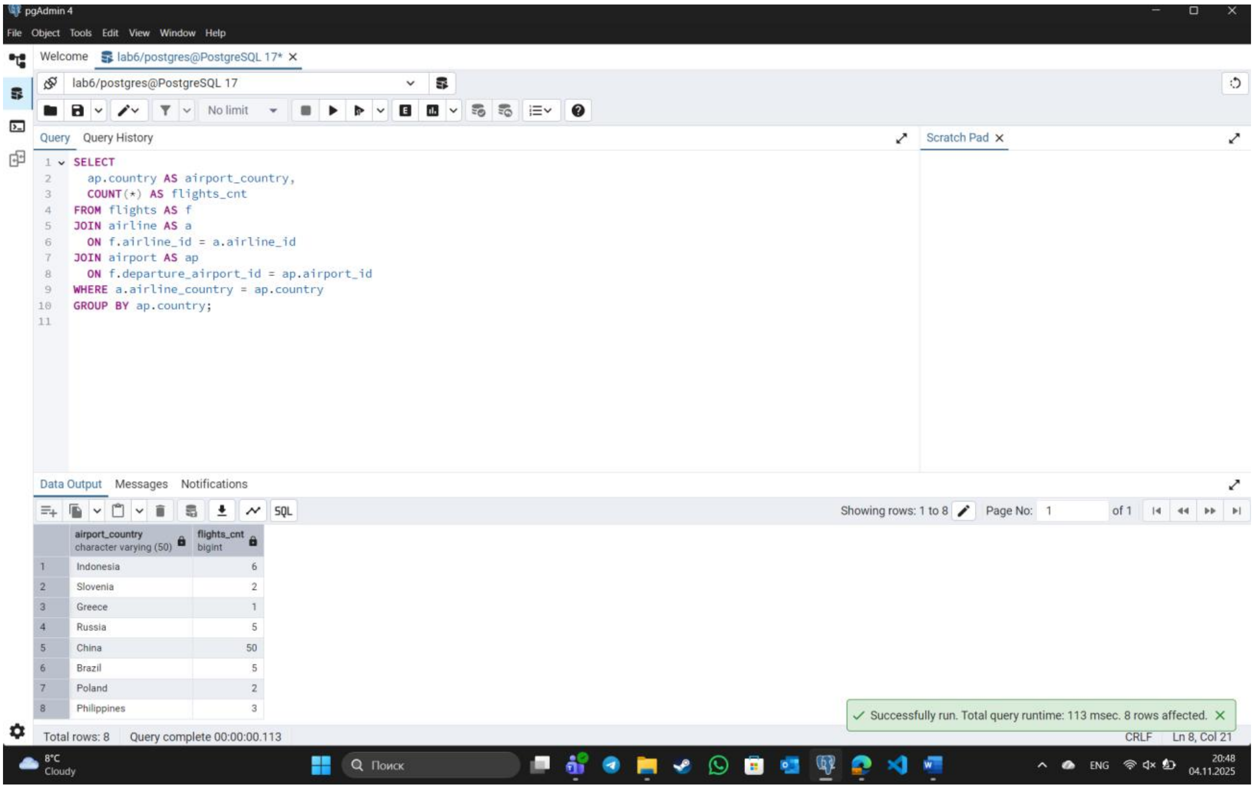
```sql
SELECT
  p.first_name,
  p.last_name,
  p.passport_number,
  f.actual_arrival
FROM passengers AS p
JOIN booking AS b
  ON p.passenger_id = b.passenger_id
JOIN booking_flight AS bf
  ON b.booking_id = bf.booking_id
JOIN flights AS f
  ON bf.flight_id = f.flight_id;
```

Showing rows: 1 to 1000 Page No: 1 of 1

	first_name character varying (50)	last_name character varying (50)	passport_number character varying (50)	actual_arrival date
1	Muhammad	Fass	109932770-9	2023-07-18
2	Trevar	Broun	788025864-7	2024-02-11
3	Auria	Breffit	570537341-4	2023-07-11
4	Archie	Toffel	677556708-1	2023-06-17
5	Sanders	Biddles	514546405-3	2023-09-05
6	Sanders	Biddles	514546405-3	2024-03-01
7	Remington	Piggot	470074456-1	2023-05-31
8	Glynis	Marle	209933120-0	2024-02-02

Total rows: 1000 Query complete 00:00:00.162

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



```
SELECT
  ap.country AS airport_country,
  COUNT(*) AS flights_cnt
FROM flights AS f
JOIN airline AS a
  ON f.airline_id = a.airline_id
JOIN airport AS ap
  ON f.departure_airport_id = ap.airport_id
WHERE a.airline_country = ap.country
GROUP BY ap.country;
```

	airport_country character varying (50)	flights_cnt bigint
1	Indonesia	6
2	Slovenia	2
3	Greece	1
4	Russia	5
5	China	50
6	Brazil	5
7	Poland	2
8	Philippines	3

✓ Successfully run. Total query runtime: 113 msec. 8 rows affected.

Total rows: 8   Query complete 00:00:00.113