

pgAdmin 4

File Object Tools Edit View Window Help

Welcome × postgres/postgres... × postgres/postgres... × postgres/postgres@PostgreSQL 17\*

postgres/postgres@PostgreSQL 17

No limit

Query History

Query Scratch Pad

```
1 SELECT f.* , a.airline_name
2 FROM flights f
3 JOIN airline a ON f.airline_id = a.airline_id
4 WHERE a.airline_name = 'Air_afd85e';
```

Data Output Messages Notifications

Showing rows: 1 to 200 Page No: 1 of 1

flight_id	sch_departure_time	sch_arrival_time	departing_airport_id	arriving_airport_id	departing_gate	arriving_gate	airline_id	act_departure_time	act_arrival_time	created_at	updated_at
1	2025-09-28 12:26:18.609531	2025-09-28 10:01:06.71777	228	203	G34	G22	150	2025-10-11 14:27:00.713001	2025-10-31 14:03:15.618924	2025-09-23 21:33:52.752638	2025-09-23 21:33:52.752638
2	2025-09-30 15:42:27.206758	2025-10-05 00:58:30.008069	228	203	G60	G84	150	2025-10-10 10:19:04.043316	2025-09-24 18:42:24.27333	2025-09-23 21:33:52.752638	2025-09-23 21:33:52.752638
3	2025-10-06 11:04:47.171199	2025-10-10 17:38:00.626649	228	203	G36	G56	150	2025-10-16 02:05:45.025777	2025-10-10 03:13:32.144707	2025-09-23 21:33:52.752638	2025-09-23 21:33:52.752638
4	2025-10-16 20:14:59.27743	2025-11-02 13:44:51.762457	228	203	G52	G91	150	2025-10-22 17:26:14.209645	2025-10-21 03:28:39.171613	2025-09-23 21:33:52.752638	2025-09-23 21:33:52.752638
5	2025-10-16 14:58:33.160989	2025-09-28 10:42:01.543047	228	203	G91	G86	150	2025-10-17 04:52:22.595113	2025-09-28 02:30:42.373822	2025-09-23 21:33:52.752638	2025-09-23 21:33:52.752638
6	2025-10-10 07:45:10.725845	2025-10-19 02:48:45.690694	228	203	G23	G54	150	2025-10-20 00:54:33.408785	2025-10-18 07:06:36.94968	2025-09-23 21:33:52.752638	2025-09-23 21:33:52.752638
7	2025-10-09 10:41:23.320238	2025-10-31 22:00:41.799403	228	203	G64	G20	150	2025-09-28 20:57:36.111865	2025-10-16 22:13:26.699055	2025-09-23 21:33:52.752638	2025-09-23 21:33:52.752638
8	2025-09-23 21:54:22.681495	2025-09-26 16:35:26.557003	228	203	G60	G15	150	2025-09-28 08:16:06.210953	2025-10-05 18:48:20.162353	2025-09-23 21:33:52.752638	2025-09-23 21:33:52.752638
9	2025-10-22 21:58:05.554618	2025-10-25 22:54:34.658662	228	203	G21	G81	150	2025-10-01 05:41:17.531548	2025-10-01 12:09:34.277285	2025-09-23 21:33:52.752638	2025-09-23 21:33:52.752638
10	2025-09-28 20:18:12.483113	2025-11-01 11:15:22.699518	228	203	G49	G84	150	2025-10-05 02:58:08.945964	2025-10-01 01:41:50.631377	2025-09-23 21:33:52.752638	2025-09-23 21:33:52.752638
11	2025-10-01 13:56:42.557443	2025-09-28 09:48:35.548966	228	203	G74	G89	150	2025-09-29 16:59:23.933231	2025-10-13 01:10:55.414749	2025-09-23 21:33:52.752638	2025-09-23 21:33:52.752638
12	2025-10-07 22:14:37.556397	2025-10-31 13:15:26.27224	228	203	G43	G25	150	2025-10-11 16:50:40.932978	2025-10-23 22:54:24.149017	2025-09-23 21:33:52.752638	2025-09-23 21:33:52.752638
13	2025-10-11 09:43:37.111696	2025-10-03 16:54:29.610692	228	203	G53	G41	150	2025-09-28 05:51:18.724662	2025-10-26 21:18:04.106651	2025-09-23 21:33:52.752638	2025-09-23 21:33:52.752638

Total rows: 200 Query complete 00:00:00.188 ✓ Successfully run. Total query runtime: 188 msec. 200 rows affected.

CRLF Ln 4, Col 35

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

pgAdmin 4

File Object Tools Edit View Window Help

Welcome × postgres/postgres... × postgres/postgres... × postgres/postgres@PostgreSQL 17\*

postgres/postgres@PostgreSQL 17

No limit

Query History

Query Scratch Pad

```
1 SELECT f.flight_id, f.sch_departure_time, f.sch_arrival_time, a_depart.airport_name AS departure_airport_name, a_arrive.airport_name AS arrival_airport_name
2 FROM flights f
3 JOIN airport a_depart ON f.departing_airport_id = a_depart.airport_id
4 JOIN airport a_arrive ON f.arriving_airport_id = a_arrive.airport_id;
```

Data Output Messages Notifications

Showing rows: 1 to 200 Page No: 1 of 1

	flight_id	sch_departure_time	sch_arrival_time	departure_airport_name	arrival_airport_name
1	1	2025-09-28 12:26:18.609531	2025-09-28 10:01:06.71777	Airport_371b88	Airport_951c54
2	2	2025-09-30 15:42:27.206758	2025-10-05 00:58:30.008069	Airport_371b88	Airport_951c54
3	3	2025-10-06 11:04:47.171199	2025-10-10 17:38:00.626649	Airport_371b88	Airport_951c54
4	4	2025-10-16 20:14:59.27743	2025-11-02 13:44:51.762457	Airport_371b88	Airport_951c54
5	5	2025-10-16 14:58:33.160989	2025-09-28 10:42:01.543047	Airport_371b88	Airport_951c54
6	6	2025-10-10 07:45:10.725845	2025-10-19 02:48:45.690694	Airport_371b88	Airport_951c54
7	7	2025-10-09 10:41:23.320238	2025-10-31 22:00:41.799403	Airport_371b88	Airport_951c54
8	8	2025-09-23 21:54:22.681495	2025-09-26 16:35:26.557003	Airport_371b88	Airport_951c54
9	9	2025-10-22 21:58:05.554618	2025-10-25 22:54:34.658662	Airport_371b88	Airport_951c54
10	10	2025-09-28 20:18:12.483113	2025-11-01 11:15:22.699518	Airport_371b88	Airport_951c54
11	11	2025-10-01 13:56:42.557443	2025-09-28 09:48:35.548966	Airport_371b88	Airport_951c54
12	12	2025-10-07 22:14:37.556397	2025-10-31 13:15:26.27224	Airport_371b88	Airport_951c54
13	13	2025-10-11 09:43:37.111696	2025-10-03 16:54:29.610692	Airport_371b88	Airport_951c54
14	14	2025-10-09 12:28:09.220176	2025-09-28 03:27:12.608151	Airport_371b88	Airport_951c54

Total rows: 200 Query complete 00:00:00.223 ✓ Successfully run. Total query runtime: 223 msec. 200 rows affected. CRLF Ln 4, Col 5

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

The screenshot shows the pgAdmin 4 interface. The top navigation bar includes File, Object, Tools, Edit, View, Window, and Help. The main window has tabs for Welcome, postgres/postgres..., postgres/postgres..., and postgres/postgres@PostgreSQL 17\*. The current tab is postgres/postgres@PostgreSQL 17\*. Below the tabs is a toolbar with various icons for file operations like Open, Save, and Print, as well as search and refresh functions. The main area is divided into two panes: the left pane is the 'Query' tab showing a SQL script, and the right pane is the 'Scratch Pad' tab which is currently empty. The bottom navigation bar includes Data Output, Messages, and Notifications. The Data Output tab is active, displaying a table of flight data. The table has a single column named 'airline\_name' with 208 rows. A message at the bottom right indicates the query was successfully run with a runtime of 266 msec and 208 rows affected. The status bar at the bottom shows 'Total rows: 208' and 'Query complete 00:00:00.266'.

```
1 SELECT a.airline_name
2 FROM airline a
3 LEFT JOIN flights f ON a.airline_id = f.airline_id
4 AND f.sch_departure_time >= DATE_TRUNC('month', CURRENT_DATE + INTERVAL '1 month')
5 AND f.sch_departure_time < DATE_TRUNC('month', CURRENT_DATE + INTERVAL '2 months')
6 WHERE f.flight_id IS NULL;
```

	airline_name
1	KazAir
2	Air_05cbb7
3	Air_0bca33
4	Air_9c0bbe
5	Air_4ba622
6	Air_722ab8
7	Air_27d4ed
8	Air_1152d4
9	Air_5e8f0b
10	Air_670dc2
11	Air_ee2917
12	Air_a55396
13	Air_a2f2cb
14	Air_196f2f

Showing rows: 1 to 208    Page No: 1    of 1   

✓ Successfully run. Total query runtime: 266 msec. 208 rows affected.

Total rows: 208 | Query complete 00:00:00.266 | CRLF | Ln 6, Col 26

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 × postgres/postgres... × postgres/postgres@PostgreSQL 17\* ×

postgres/postgres@PostgreSQL 17

No limit

Query History

Query Scratch Pad

```
1 SELECT
2     p.first_name,
3     p.last_name,
4     p.passport_number,
5     b.booking_id
6 FROM
7     Passengers p
8 JOIN
9     Booking b ON p.passenger_id = b.passenger_id
10 WHERE
11     b.flight_id = 136; -- Замените 101 на нужный ID рейса
```

Data Output Messages Notifications

Showing rows: 1 to 133 Page No: 1 of 1

	first_name character varying (50)	last_name character varying (50)	passport_number character varying (20)	booking_id integer
1	FN_f0ab27	LN_f16938	79FE10BA	81
2	FN_f0ab27	LN_f16938	79FE10BA	82
3	FN_f0ab27	LN_f16938	79FE10BA	85
4	FN_f0ab27	LN_f16938	79FE10BA	86
5	FN_f0ab27	LN_f16938	79FE10BA	88
6	FN_f0ab27	LN_f16938	79FE10BA	89
7	FN_f0ab27	LN_f16938	79FE10BA	92
8	FN_f0ab27	LN_f16938	79FE10BA	93
9	FN_f0ab27	LN_f16938	79FE10BA	95
10	FN_f0ab27	LN_f16938	79FE10BA	96
11	FN_f0ab27	LN_f16938	79FE10BA	97
12	FN_f0ab27	LN_f16938	79FE10BA	99
13	FN_f0ab27	LN_f16938	79FE10BA	100
14	FN_f0ab27	LN_f16938	79FE10BA	102

Successfully run. Total query runtime: 191 msec. 133 rows affected.

Total rows: 133 Query complete 00:00:00.191 CRLF Ln 11, Col 22

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

pgAdmin 4

File Object Tools Edit View Window Help

Welcome × postgres/postgres... × postgres/postgres@PostgreSQL 17\* ×

postgres/postgres@PostgreSQL 17

No limit ▾ E II ▾

Query History

Query Scratch Pad

```
1 SELECT
2     flight_id,
3     AVG(ticket_price) AS average_ticket_price,
4     SUM(ticket_price) AS total_revenue,
5     MAX(ticket_price) AS maximum_ticket_price,
6     MIN(ticket_price) AS minimum_ticket_price
7 FROM
8     Booking
9 GROUP BY
10    flight_id
11 ORDER BY
12    flight_id;
```

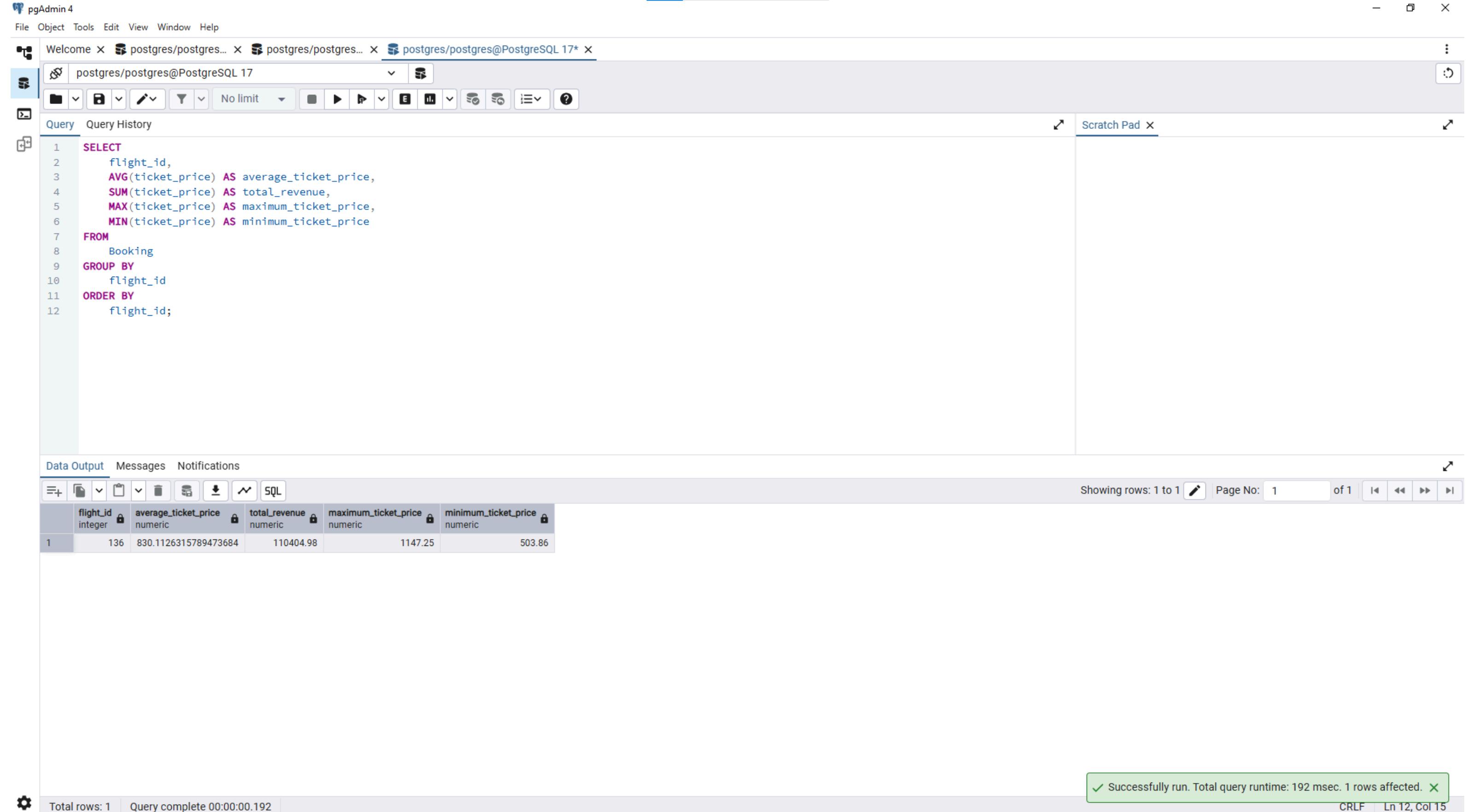
Data Output Messages Notifications

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

	flight_id	average_ticket_price	total_revenue	maximum_ticket_price	minimum_ticket_price
1	136	830.1126315789473684	110404.98	1147.25	503.86

Successfully run. Total query runtime: 192 msec. 1 rows affected.

Total rows: 1 Query complete 00:00:00.192 CRLF Ln 12, Col 15



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

The screenshot shows the pgAdmin 4 interface with the following details:

- File** | **Object** | **Tools** | **Edit** | **View** | **Window** | **Help**
- Three tabs are open in the top bar: "Welcome" (closed), "postgres/postgres@PostgreSQL 17", and "postgres/postgres@PostgreSQL 17\*" (selected).
- The main area is the "Query" tab, which contains the following SQL code:

```
1  SELECT
2    f.flight_id,
3    al.airline_name,
4    a_depart.airport_name AS departure_airport,
5    a_arrive.airport_name AS arrival_airport,
6    f.sch_departure_time,
7    f.sch_arrival_time
8  FROM
9    Flights f
10   JOIN
11     Airport a_arrive ON f.arriving_airport_id = a_arrive.airport_id
12   JOIN
13     Airport a_depart ON f.departing_airport_id = a_depart.airport_id
14   JOIN
15     Airline al ON f.airline_id = al.airline_id
16  WHERE
17    a_arrive.country = 'USA'
18  ORDER BY
19    f.sch_departure_time;
```
- The "Data Output" tab is visible below the query editor.
- The "Messages" and "Notifications" tabs are also present in the bottom navigation bar.
- The status bar at the bottom shows: "Total rows: 0" | "Query complete 00:00:00.219" | "Successfully run. Total query runtime: 219 msec. 0 rows affected." | "CRLF Ln 17, Col 29".

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.

pgAdmin 4

File Object Tools Edit View Window Help

Welcome × postgres/postgres... × postgres/postgres@PostgreSQL 17\* ×

postgres/postgres@PostgreSQL 17

No limit

Query History

Query Scratch Pad

```
1 SELECT
2     first_name,
3     last_name,
4     EXTRACT(YEAR FROM AGE(CURRENT_DATE, date_of_birth)) AS age,
5     country_of_residence
6 FROM
7     Passengers
8 WHERE
9     EXTRACT(YEAR FROM AGE(CURRENT_DATE, date_of_birth)) < 21;
```

Data Output Messages Notifications

Showing rows: 1 to 6 Page No: 1 of 1

	first_name character varying (50)	last_name character varying (50)	age numeric	country_of_residence character varying (50)
1	FN_8d0c25	LN_5afdd0	20	Res_e88661
2	FN_673243	LN_7d1ab1	19	Res_aad3e5
3	FN_ad22b1	LN_dde3b0	20	Res_302ada
4	FN_697cc3	LN_8ce50f	19	Res_0840d4
5	FN_5cf8b7	LN_d892ea	19	Res_328758
6	FN_125a22	LN_a65b73	19	Res_63038d

Total rows: 6 Query complete 00:00:00.162 ✓ Successfully run. Total query runtime: 162 msec. 6 rows affected. CRLF Ln 9, Col 61

Display a list of minor passengers and their arrival destination.

pgAdmin 4

File Object Tools Edit View Window Help

Welcome × postgres/postgres... × postgres/postgres@PostgreSQL 17\* ×

postgres/postgres@PostgreSQL 17

No limit

Query History

Query Scratch Pad

```
1 SELECT
2     p.first_name || ' ' || p.last_name AS full_name,
3     p.passport_number,
4     f.act_arrival_time
5 FROM
6     Passengers p
7 JOIN
8     Booking b ON p.passenger_id = b.passenger_id
9 JOIN
10    Flights f ON b.flight_id = f.flight_id
11 ORDER BY
12     f.act_arrival_time DESC;
```

Data Output Messages Notifications

Showing rows: 1 to 133 Page No: 1 of 1

	full_name	passport_number	act_arrival_time
1	FN_f0ab27 LN_f16938	79FE10BA	2025-10-16 15:21:53.770258
2	FN_f0ab27 LN_f16938	79FE10BA	2025-10-16 15:21:53.770258
3	FN_f0ab27 LN_f16938	79FE10BA	2025-10-16 15:21:53.770258
4	FN_f0ab27 LN_f16938	79FE10BA	2025-10-16 15:21:53.770258
5	FN_f0ab27 LN_f16938	79FE10BA	2025-10-16 15:21:53.770258
6	FN_f0ab27 LN_f16938	79FE10BA	2025-10-16 15:21:53.770258
7	FN_f0ab27 LN_f16938	79FE10BA	2025-10-16 15:21:53.770258
8	FN_f0ab27 LN_f16938	79FE10BA	2025-10-16 15:21:53.770258
9	FN_f0ab27 LN_f16938	79FE10BA	2025-10-16 15:21:53.770258
10	FN_f0ab27 LN_f16938	79FE10BA	2025-10-16 15:21:53.770258
11	FN_f0ab27 LN_f16938	79FE10BA	2025-10-16 15:21:53.770258
12	FN_f0ab27 LN_f16938	79FE10BA	2025-10-16 15:21:53.770258
13	FN_f0ab27 LN_f16938	79FE10BA	2025-10-16 15:21:53.770258
14	FN_f0ab27 LN_f16938	79FE10BA	2025-10-16 15:21:53.770258

Successfully run. Total query runtime: 147 msec. 133 rows affected.

Total rows: 133 Query complete 00:00:00.147 CRLF Ln 2, Col 53

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