

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.

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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: 'Query' on the left and 'Scratch Pad' on the right. The 'Query' pane contains the following SQL code:

```
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;
```

The 'Data Output' tab is active at the bottom, showing the results of the query. The results are presented in a table with one column labeled 'airline_name'. The data consists of 208 rows, with the first few rows being:

	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

At the bottom right, a green message box indicates: ✓ Successfully run. Total query runtime: 266 msec. 208 rows affected.

At the very bottom, status bars show 'Total rows: 208' and 'Query complete 00:00:00.266'.

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

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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;
```

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: 265 msec. 133 rows affected.

Total rows: 133 Query complete 00:00:00.265 CRLF Ln 11, Col 23

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;
```

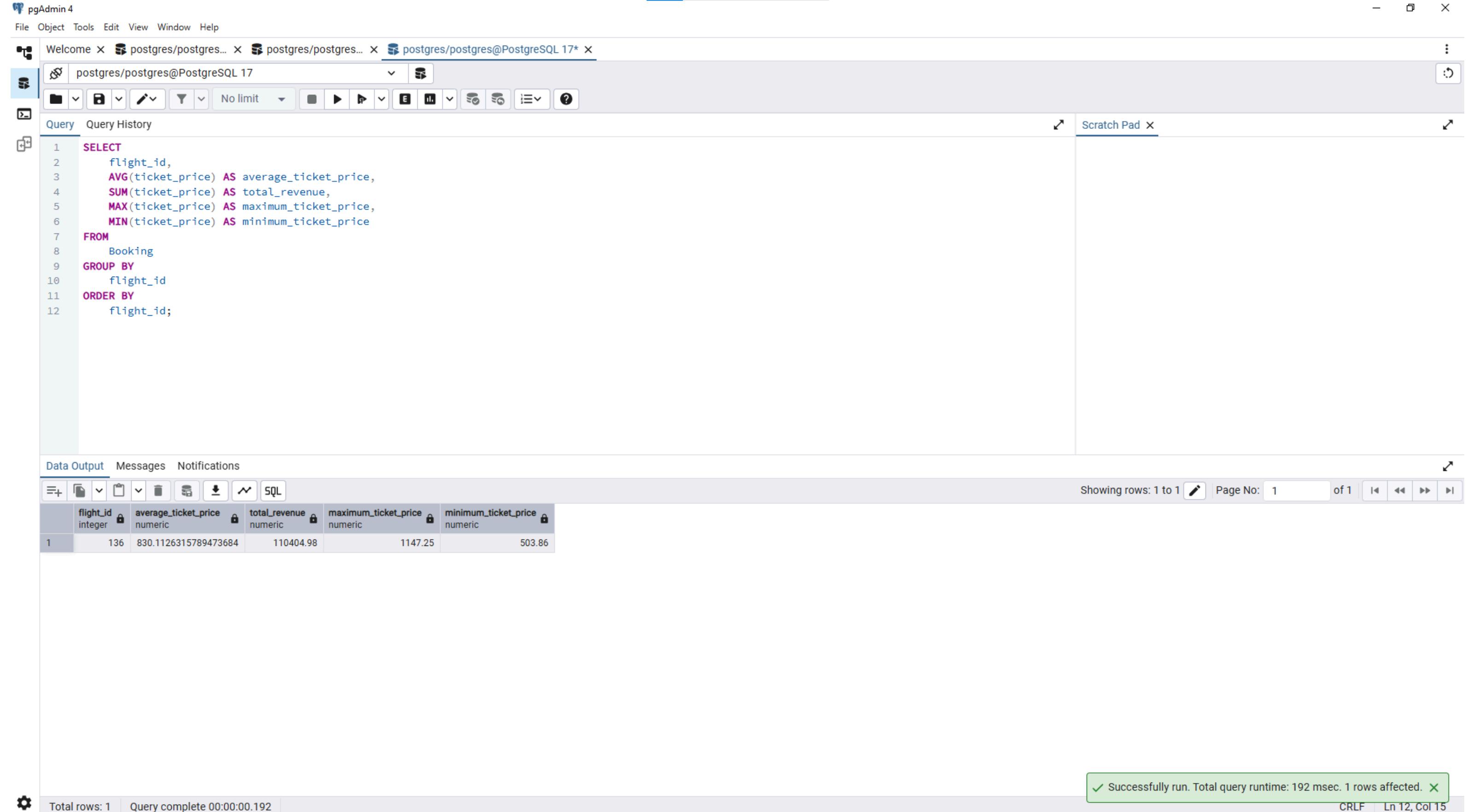
Data Output Messages Notifications

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.

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
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;
```

Data Output Messages Notifications

flight_id | airline_name | departure_airport | arrival_airport | sch_departure_time | sch_arrival_time

integer character varying (50) character varying (50) character varying (50) timestamp without time zone timestamp without time zone

Total rows: 0 Query complete 00:00:00.219

Successfully run. Total query runtime: 219 msec. 0 rows affected.

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

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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 text	passport_number character varying (20)	act_arrival_time timestamp without time zone
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.