

Object Explorer

Schemas (1) public

Tables (10)

- airline
- airport
- baggage
- baggage\_check
- boarding\_pass
- booking
- booking\_flight
- flights
- airline (12)

Columns (12)

name	updated_at	airline_id	airline_code	airline_name	airline_country	created_at	updated_at
1	2024-07-26 05:54:25	34	KZ34	Air Astana	Kazakhstan	2023-05-06 00:56:31	2023-06-27 00:56:31
2	2024-02-25 00:59:35	44	KZ44	Air Astana	Kazakhstan	2022-06-20 08:00:57	2022-07-10 08:00:57
3	2023-10-30 14:32:19	177	KZ177	Air Astana	Kazakhstan	2023-04-18 01:16:45	2023-05-25 01:16:45
4	2022-09-12 02:21:41	11	KZ11	Air Astana	Kazakhstan	2022-09-06 00:31:50	2022-12-05 00:31:50
5	2024-03-11 03:37:01	72	KZ72	Air Astana	Kazakhstan	2024-07-02 21:44:19	2024-09-11 21:44:19
6	2023-11-21 22:43:20	187	KZ187	Air Astana	Kazakhstan	2022-03-13 18:58:20	2022-04-14 18:58:20
7	2023-06-25 08:23:00	34	KZ34	Air Astana	Kazakhstan	2023-05-06 00:56:31	2023-06-27 00:56:31
8	2022-08-08 10:29:05	44	KZ44	Air Astana	Kazakhstan	2022-06-20 08:00:57	2022-07-10 08:00:57
9	2024-05-15 19:16:45	142	KZ142	Air Astana	Kazakhstan	2023-04-24 20:42:15	2023-06-10 20:42:15
10	2023-01-30 16:05:46	11	KZ11	Air Astana	Kazakhstan	2022-09-06 00:31:50	2022-12-05 00:31:50
11	2023-11-20 06:28:04	187	KZ187	Air Astana	Kazakhstan	2022-03-13 18:58:20	2022-04-14 18:58:20
12	2022-04-11 05:59:01	177	KZ177	Air Astana	Kazakhstan	2022-04-10 01:16:45	2022-05-05 01:16:45

Total rows: 18 Query complete 00:00:00.055

LF Ln 3, Col 35

Object Explorer

Schemas (1) public

Tables (10) airline, airport

Columns

Constraints

Indexes

RLS Policies

Rules

Triggers

baggage

baggage\_check

boarding\_pass

booking

booking\_flight

flights

Columns (12)

flight\_id

sch\_departure\_

sch\_arrival\_time

departing\_airport

arriving\_airport

departing\_gate

arriving\_gate

public.airline/postgres@localhost\*

public.airline/postgres@localhost\*

public.flights/postgres@localhost\*

public.airport/postgres@localhost\*

Query History

```
1. SELECT f.flight_id, a.airport_name AS departure_airport
2. FROM flights f
3. JOIN airport a ON f.departing_airport_id = a.airport_id;
```

Data Output

	flight_id	departure_airport
1	1	São Paulo-Guarulhos_12
2	2	Paris Charles de Gaulle_54
3	3	Frankfurt Airport_174
4	4	Istanbul Airport_191
5	5	Almaty International_158
6	6	Paris Charles de Gaulle_142
7	7	Istanbul Airport_76
8	8	Warsaw Chopin_190
9	9	JFK International_70
10	10	Heathrow_27
11	11	Beijing Capital_75
12	12	JFK International_176

Total rows: 200 Query complete 00:00:00.055

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

✓ Table rows counted: 200 LF Ln 3, Col 57

Object Explorer

- > Functions
- > Materialized Views
- > Operators
- > Procedures
- > 1..3 Sequences (1)
- Tables (10)**
  - > airline
  - > airport
    - > Columns
    - > Constraints
    - > Indexes
    - > RLS Policies
    - > Rules
    - > Triggers
  - > baggage
  - > baggage\_check
  - > boarding\_pass
  - > booking
  - > booking\_flight
  - flights**
    - > Columns (12)
      - 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
    - > Constraints
    - > Indexes
    - > RLS Policies
    - > Rules

public.flights/postgres@localhost

No limit

Query History

```
1. SELECT a.airline_name
2. FROM airline a
3. LEFT JOIN flights f ON a.airline_id = f.airline_id
4. AND sch_departure_time BETWEEN '2025-11-01' AND '2025-11-30'
5. WHERE f.flight_id IS NULL;
```

Data Output

airline_name
character varying (50)
1 Turkish Airlines
2 British Airways
3 Lufthansa
4 FlyFly
5 AirEasy
6 Turkish Airlines
7 FlyFly
8 FlyFly
9 FlyFly
10 FlyHigh
11 Air Astana
12 AirEasy

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

Total rows: 200 Query complete 00:00:00.076

✓ Table rows counted: 200 LF Ln 5, Col 27

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

- Object Explorer:** On the left, it lists several databases (public.airline, public.flights, public.airport) and their schemas (flights, airline, airport). The 'flights' schema is currently selected.
- Query Editor:** The main area contains a SQL query window titled 'Query History' with the following code:

```
1 SELECT p.passenger_id, p.first_name, p.last_name
2 FROM passengers p
3 JOIN booking b ON p.passenger_id = b.passenger_id
4 WHERE b.flight_id = 100;
```
- Data Output:** Below the query editor, there is a table showing the results of the query. The table has columns: passenger\_id, first\_name, and last\_name. The data is as follows:

	passenger_id	first_name	last_name
1	80	Айгерим	Әлиев
2	97	Мария	Кузнецов
3	169	Нұрсұлтан	Қуанышев

At the bottom right, a message box indicates "Table rows counted: 200".

Bottom status bar: Total rows: 3 Query complete 00:00:00.051 LF Ln 1, Col 19

Object Explorer

public.flights/postgres@localhost\* public.airport/postgres@localhost\* public.flights/postgres@localhost\* public.booking/postgres@localhost\* public.booking/postgres@localhost\*

Operators Procedures Sequences(1) Tables(10)

- airline
- airport
  - Columns
  - Constraints
  - Indexes
  - RLS Policies
  - Rules
  - Triggers
- baggage
- baggage\_check
- boarding\_pass
- booking
  - Columns(9)
    - booking\_id
    - flight\_id
    - passenger\_id
    - booking\_platform
    - created\_at
    - updated\_at
    - status
    - ticket\_price
    - ticket\_discount
  - Constraints
  - Indexes
  - RLS Policies
  - Rules
  - Triggers
- booking\_flight
- flights
  - Columns(12)
    - flight\_id
    - sch\_departure\_time
    - sch\_arrival\_time

public.booking/postgres@localhost

No limit

Query History

```
1 SELECT b.flight_id,
2     AVG(b.ticket_price) AS avg_t_price,
3     SUM(b.ticket_price) AS sum_t_price,
4     MAX(b.ticket_price) AS max_t_price,
5     MIN(b.ticket_price) AS min_t_price
6 FROM booking b
7 GROUP BY b.flight_id;
```

Scratch Pad

Data Output Messages Notifications

Showing rows: 1 to 127 Page No: 1 of 1

flight_id	avg_t_price	sum_t_price	max_t_price	min_t_price
184	19290.7000000000000000	19290.70	19290.70	19290.70
116	29725.670000000000	59451.34	39451.34	20000.00
71	19471.723333333333	58415.17	30208.22	5674.46
51	20000.000000000000	20000.00	20000.00	20000.00
80	20000.000000000000	20000.00	20000.00	20000.00
52	20000.000000000000	40000.00	20000.00	20000.00
190	20000.000000000000	40000.00	20000.00	20000.00
162	20000.000000000000	20000.00	20000.00	20000.00
84	20000.000000000000	20000.00	20000.00	20000.00
192	20000.000000000000	20000.00	20000.00	20000.00
169	19770.200000000000	39540.40	20000.00	19540.40
176	25501.445000000000	51002.89	31002.89	20000.00

Total rows: 127 Query complete 00:00:00.060 ✓ Table rows counted: 200 LF Ln 1, Col 20

Object Explorer

public.flights/postgres@localhost\*

Columns (9)

- booking\_id
- flight\_id
- passenger\_id
- booking\_platform
- created\_at
- updated\_at
- status
- ticket\_price
- ticket\_discount

Constraints

Indexes

RLS Policies

Rules

Triggers

booking\_flight

flights

Columns (12)

- 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

Constraints

Indexes

RLS Policies

Rules

Triggers

passengers

security\_check

public.flights/postgres@localhost

No limit

Query History

```
1. SELECT f.flight_id, a.airport_name, a.country
2. FROM flights f
3. JOIN airport a ON f.arriving_airport_id = a.airport_id
4. WHERE a.country = 'China';
```

Scratch Pad

Data Output

Messages

Notifications

Showing rows: 1 to 20

Page No: 1 of 1

	flight_id	airport_name	country
1	7	Beijing Capital_64	China
2	12	Beijing Capital_98	China
3	13	Beijing Capital_71	China
4	52	Beijing Capital_188	China
5	55	Beijing Capital_32	China
6	57	Beijing Capital_14	China
7	61	Beijing Capital_98	China
8	62	Beijing Capital_167	China
9	78	Beijing Capital_146	China
10	81	Beijing Capital_107	China
11	82	Beijing Capital_14	China
12	93	Beijing Capital_198	China

Total rows: 20 Query complete 00:00:00.075

✓ Table rows counted: 200 LF Ln 4, Col 27

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

- Object Explorer:** On the left, it shows the database schema. Under the "passengers" table, the "Columns (10)" section is expanded, listing columns: passenger\_id, first\_name, last\_name, date\_of\_birth, gender, country\_of\_citizen, country\_of\_residence, passport\_number, created\_at, and updated\_at.
- Query Editor:** The main area contains a SQL query:

```
1 SELECT p.first_name, p.last_name, a.airport_name AS arriving_airport
2 FROM passengers p
3 JOIN booking b ON p.passenger_id = b.passenger_id
4 JOIN flights f ON b.flight_id = f.flight_id
5 JOIN airport a ON f.arriving_airport_id = a.airport_id
6 WHERE EXTRACT(YEAR FROM AGE(CURRENT_DATE,p.date_of_birth)) < 18;
```
- Data Output:** Below the query editor, there's a preview of the result set with columns: first\_name, last\_name, and arriving\_airport. The data type for each column is character varying (50).
- Status Bar:** At the bottom, it shows "Total rows: 0" and "Query complete 00:00:00.064".
- Notifications:** In the bottom right corner, there are two green notifications: "Table rows counted: 200" and "Table rows counted: 200".

Object Explorer

- Rules
- Triggers
- flights
- Columns (12)
  - flight\_id
  - sch\_departure\_time
  - sch\_arrival\_time
  - departing\_airport
  - arriving\_airport\_id
  - departing\_gate
  - arriving\_gate
  - airline\_id
  - act\_departure\_time
  - act\_arrival\_time
  - created\_at
  - updated\_at
- Constraints
- Indexes
- RLS Policies
- Rules
- Triggers

public.passengers/postgres@localhost\*

Query History

```
1 SELECT p.first_name || ' ' || p.last_name AS full_name,
2       p.passport_number,
3       f.sch_arrival_time
4   FROM passengers p
5  JOIN booking b ON p.passenger_id = b.passenger_id
6  JOIN flights f ON b.flight_id = f.flight_id;
```

Data Output

	full_name	passport_number	sch_arrival_time
1	Иван Сидорова	nt036900	2024-02-17 14:08:56
2	Айгерим Толегенова	ov318393	2022-07-23 00:00:10
3	Ольга Иванов	Gm521818	2023-06-07 15:33:47
4	Гульнас Жұмабекова	PT367837	2024-12-16 10:38:14
5	Анна Иванов	nr859770	2022-09-13 09:09:20
6	Елена Волкова	Ss369594	2022-04-03 08:20:16
7	Иван Волкова	WA375564	2023-12-04 06:41:23
8	Аян Толегенова	RU927065	2024-01-11 02:20:41
9	Меруерт Куанышев	WK921277	2024-03-25 11:31:19
10	Аин Толегенова	RU927065	2023-11-18 01:20:19
11	John Brown	pt794738	2024-03-24 03:41:59
12	James Davis	oP709859	2024-07-21 14:54:52

Total rows: 201 Query complete 00:00:00.045

Showing rows: 1 to 201 Page No: 1 of 1

✓ Table rows counted: 200 ✗

✓ Table rows counted: 200 ✗

LF Ln 5, Col 47

Object Explorer

public.flights/postgres@localhost

Query History

```
1. SELECT f.flight_id, a.airline_name, ap.country
2. FROM flights f
3. JOIN airline a ON f.airline_id = a.airline_id
4. JOIN airport ap ON f.departing_airport_id = ap.airport_id
5. WHERE a.airline_country = ap.country
6. GROUP BY f.flight_id, a.airline_name, ap.country;
```

Data Output

	flight_id	airline_name	country
1	181	Lufthansa	Germany
2	186	Air Astana	Kazakhstan
3	176	British Airways	UK
4	51	Air Astana	Kazakhstan
5	76	KazAir	Kazakhstan
6	61	KazAir	Kazakhstan
7	6	AirEasy	France
8	123	KazAir	Kazakhstan
9	18	Lufthansa	Germany
10	132	Air Astana	Kazakhstan
11	52	British Airways	UK
12	135	Air Astana	Kazakhstan

Total rows: 19 Query complete 00:00:00.044

Showing rows: 1 to 19 Page No: 1 of 1

✓ Table rows counted: 200 ✓

✓ Table rows counted: 200 ✓

LF Ln 5, Col 36