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 - boarding_pass
 - booking

BD_Lab2/postgres@PostgreSQL 17*

BD_Lab2/postgres@PostgreSQL 17

Query Query History

```
1 #1
2 SELECT UPPER(airline_name) as airline_name_upper
3 FROM airline;
```

Scratch Pad

Data Output Messages Notifications

Showing rows: 1 to 20 Page No: 1 of 1

	airline_name_upper text
1	AIRFRANCE
2	FLYBRAZIL
3	POLAIR
4	TURKISHWINGS
5	USAIR
6	LUFTHANSA
7	BRITISHFLY
8	ITALAIR
9	IBERIA
10	KAZAIR
11	KAZAIR
12	AIREASY
13	FLYHIGH

Total rows: 20 Query complete 00:00:00.118

LF Ln 2, Col 1

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BD_Lab2/postgres@PostgreSQL 17*

BD_Lab2/postgres@PostgreSQL 17

Query Query History

```
1 #1
2 SELECT UPPER(airline_name) as airline_name_upper
3 FROM airline;
4
5 #2
6 SELECT REPLACE(airline_name, 'Air', 'Aero') AS updated_name
7 FROM airline;
8
```

Scratch Pad

Data Output Messages Notifications

Showing rows: 1 to 20 Page No: 1 of 1

	updated_name text
1	AeroFrance
2	FlyBrazil
3	PolAero
4	TurkishWings
5	USAero
6	Lufthansa
7	BritishFly
8	ItalAero
9	Iberia
10	KazAero
11	KazAero
12	AeroEasy
13	FlyHigh

Total rows: 20 Query complete 00:00:00.135

LF Ln 6, Col 1

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- > 1.3 Sequences
- > Tables (10)
 - > airline
 - > airport
 - > 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

BD_Lab2/postgres@PostgreSQL 17* X

BD_Lab2/postgres@PostgreSQL 17

Query Query History

```
1 #1
2 SELECT UPPER(airline_name) as airline_name_upper
3 FROM airline;
4
5 #2
6 SELECT REPLACE(airline_name, 'Air', 'Aero') AS updated_name
7 FROM airline;
8
9 #3
10 SELECT flight_id
11 FROM flights
12 WHERE airline_id IN (1, 2)
13 GROUP BY flight_id
14 HAVING COUNT(DISTINCT airline_id) = 2;
```

Data Output Messages Notifications

flight_id
[FK] integer

Total rows: 0 Query complete 00:00:00.157

LF Ln 10, Col 1

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- > Tables (10)
 - > airline
 - > airport
 - Columns (7)
 - airport_id
 - airport_name
 - country
 - state
 - city
 - created_at
 - updated_at
 - > Constraints
 - > Indexes
 - > RLS Policies
 - > Rules
 - > Triggers
 - > baggage
 - > baggage_check
 - > boarding_pass
 - > booking
 - > booking_flight
 - > flights
 - Columns (12)
 - flight_id
 - sch_departure_time

BD_Lab2/postgres@PostgreSQL 17*

BD_Lab2/postgres@PostgreSQL 17

Query Query History

```
4
5 #2
6 SELECT REPLACE(airline_name, 'Air', 'Aero') AS updated_name
7 FROM airline;
8
9 #3
10 SELECT flight_id
11 FROM flights
12 WHERE airline_id IN (1, 2)
13 GROUP BY flight_id
14 HAVING COUNT(DISTINCT airline_id) = 2;
15
16 #4
17 SELECT airport_name FROM airport
18 WHERE airport_name ILIKE '%Reginal%' AND airport_name ILIKE '%Air%';
```

Data Output Messages Notifications

airport_name
character varying (50)

Successfully run. Total query runtime: 80 msec. 0 rows affected.

Total rows: 0 Query complete 00:00:00.080

LF Ln 17, Col 1

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- > Tables(10)
 - > airline
 - > airport
 - > baggage
 - > baggage_check
 - > boarding_pass
 - > booking
 - > booking_flight
 - > flights
 - > passengers
 - > Columns(10)
 - passenger_id
 - first_name
 - last_name
 - date_of_birth
 - gender
 - country_of_citizenship
 - country_of_residence
 - passport_number
 - created_at
 - updated_at
 - > Constraints
 - > Indexes
 - > RLS Policies
 - > Rules

BD_Lab2/postgres@PostgreSQL 17* X

BD_Lab2/postgres@PostgreSQL 17

Query Query History

```
9 #3
10 SELECT flight_id
11 FROM flights
12 WHERE airline_id IN (1, 2)
13 GROUP BY flight_id
14 HAVING COUNT(DISTINCT airline_id) = 2;
15
16 #4
17 SELECT airport_name FROM airport
18 WHERE airport_name ILIKE '%Reginal%' AND airport_name ILIKE '%Air%';
19
20 #5
21 SELECT first_name || ' ' || last_name AS passenger_name,
22        TO_CHAR(date_of_birth, 'Month DD, YYYY') AS formatted_birth_date
23 FROM passengers;
```

Data Output Messages Notifications

Showing rows: 1 to 59 Page No: 1 of 1

	passenger_name text	formatted_birth_date text
1	John Smith	January 01, 1990
2	Anna Ivanova	May 10, 1992
3	Ali Khan	September 15, 1988
4	Maria Garcia	July 21, 1995
5	Luca Rossi	November 30, 1993
6	Pierre Dupont	February 14, 1991
7	Julia Muller	April 25, 1994
8	David Brown	December 05, 1990
9	Pedro Silva	June 06, 1996
10	Algerim Sadykova	March 12, 1998
11	Max Johnson	January 01, 1987
12	Emma Taylor	February 02, 1993
13	Lucas Martins	March 03, 1995
14	Sofia Costa	April 04, 1997

Total rows: 59 Query complete 00:00:00.094

✓ Successfully run. Total query runtime: 94 msec. 59 rows affected. ✕

LF Ln 21, Col 1

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- > 1.3 Sequences
- > Tables (10)
 - airline
 - airport
 - 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
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BD_Lab2/postgres@PostgreSQL 17*

BD_Lab2/postgres@PostgreSQL 17

Query Query History

```
13 GROUP BY flight_id
14 HAVING COUNT(DISTINCT airline_id) = 2;
15
16 #4
17 SELECT airport_name FROM airport
18 WHERE airport_name ILIKE '%Reginal%' AND airport_name ILIKE '%Air%';
19
20 #5
21 SELECT first_name || ' ' || last_name AS passenger_name,
22        TO_CHAR(date_of_birth, 'Month DD, YYYY') AS formatted_birth_date
23 FROM passengers;
24
25 #6
26 SELECT flight_id FROM flights
27 WHERE act_arrival_time > sch_arrival_time;
```

Data Output Messages Notifications

Showing rows: 1 to 30 Page No: 1 of 1

flight_id	[PK] integer
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13

Total rows: 30 Query complete 00:00:00.077 LF Ln 26, Col 1

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- Tables (10)
 - airline
 - airport
 - baggage
 - baggage_check
 - boarding_pass
 - booking
 - booking_flight
 - flights
 - passengers
 - Columns (10)
 - passenger_id
 - first_name
 - last_name
 - date_of_birth
 - gender
 - country_of_c
 - country_of_re
 - passport_nur
 - created_at
 - updated_at
 - Constraints
 - Indexes
 - RLS Policies

BD_Lab2/postgres@PostgreSQL 17

Query Query History

```
23 FROM passengers;
24
25 #6
26 SELECT flight_id FROM flights
27 WHERE act_arrival_time > sch_arrival_time;
28
29 #7
30 SELECT first_name, last_name,
31        EXTRACT(YEAR FROM AGE(date_of_birth)) AS age,
32        CASE
33          WHEN EXTRACT(YEAR FROM AGE(date_of_birth)) BETWEEN 18 AND 35 THEN 'Young'
34          WHEN EXTRACT(YEAR FROM AGE(date_of_birth)) BETWEEN 36 AND 55 THEN 'Adult'
35          ELSE 'Other'
36        END AS age_group
37 FROM passengers;
```

Data Output Messages Notifications

Showing rows: 1 to 59 Page No: 1 of 1

	first_name character varying (50)	last_name character varying (50)	age numeric	age_group text
1	John	Smith	35	Young
2	Anna	Ivanova	33	Young
3	Ali	Khan	37	Adult
4	Maria	Garcia	30	Young
5	Luca	Rossi	31	Young
6	Pierre	Dupont	34	Young
7	Julia	Muller	31	Young
8	David	Brown	34	Young
9	Pedro	Silva	29	Young
10	Algerim	Sadykova	27	Young
11	Max	Johnson	38	Adult
12	Emma	Taylor	32	Young
13	Lucas	Martins	30	Young
14	Sofia	Costa	28	Young

Total rows: 59 Query complete 00:00:00.134

LF Ln 30, Col 1

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 - Tables (10)
 - airline
 - airport
 - baggage
 - baggage_check
 - boarding_pass
 - booking
 - Columns (8)
 - booking_id
 - flight_id
 - passenger_id
 - booking_platform
 - created_at
 - updated_at
 - status
 - price
 - Constraints
 - Indexes
 - RLS Policies

BD_Lab2/postgres@PostgreSQL 17*

BD_Lab2/postgres@PostgreSQL 17

Query Query History

```
32 CASE
33     WHEN EXTRACT(YEAR FROM AGE(date_of_birth)) BETWEEN 18 AND 35 THEN 'Young'
34     WHEN EXTRACT(YEAR FROM AGE(date_of_birth)) BETWEEN 36 AND 55 THEN 'Adult'
35     ELSE 'Other'
36 END AS age_group
37 FROM passengers;
38
39 #8
40 SELECT booking_id, price,
41        CASE
42            WHEN price < 100 THEN 'Cheap'
43            WHEN price BETWEEN 100 AND 300 THEN 'Medium'
44            ELSE 'Expensive'
45        END AS price_category
46 FROM booking;
```

Data Output Messages Notifications

Showing rows: 1 to 46 Page No: 1 of 1

	booking_id [PK] integer	price numeric (7,2)	price_category text
1	1	17250.00	Expensive
2	2	13800.58	Expensive
3	3	24150.00	Expensive
4	4	10350.00	Expensive
5	5	21275.86	Expensive
6	6	26450.00	Expensive
7	7	12650.00	Expensive
8	8	20125.00	Expensive
9	9	22425.00	Expensive
10	10	29325.00	Expensive
11	11	12075.00	Expensive
12	12	18630.00	Expensive
13	13	27945.00	Expensive

Total rows: 46 Query complete 00:00:00.105

✓ Successfully run. Total query runtime: 105 msec. 46 rows affected. ✕

LF Ln 40, Col 1

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 - Sequences
 - Tables (10)
 - airline
 - Columns (6)
 - airline_id
 - airline_code
 - airline_name
 - airline_country
 - created_at
 - updated_at
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 - Rules
 - Triggers
 - airport
 - baggage
 - baggage_check
 - boarding_pass
 - booking

BD_Lab2/postgres@PostgreSQL 17*

BD_Lab2/postgres@PostgreSQL 17

Query Query History

```
37 FROM passengers;
38
39 #8
40 SELECT booking_id, price,
41        CASE
42            WHEN price < 100 THEN 'Cheap'
43            WHEN price BETWEEN 100 AND 300 THEN 'Medium'
44            ELSE 'Expensive'
45        END AS price_category
46 FROM booking;
47
48 #9
49 SELECT airline_country, COUNT(*) AS airline_count FROM airline
50 GROUP BY airline_country
51 ORDER BY airline_count DESC;
```

Data Output Messages Notifications

Showing rows: 1 to 10 Page No: 1 of 1

	airline_country character varying (50)	airline_count bigint
1	Kazakhstan	6
2	Turkey	3
3	France	2
4	Brazil	2
5	Poland	2
6	USA	1
7	Germany	1
8	UK	1
9	Spain	1
10	Italy	1

Total rows: 10 Query complete 00:00:00.103

✓ Successfully run. Total query runtime: 103 msec. 10 rows affected. ✕

LF Ln 49, Col 1

Object Explorer

- > RLS Policies
- > Rules
- > Triggers
- > airport
- > baggage
- > baggage_check
- > boarding_pass
- > booking
 - Columns (8)
 - booking_id
 - flight_id
 - passenger_id
 - booking_platform
 - created_at
 - updated_at
 - status
 - price
- > 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

BD_Lab2/postgres@PostgreSQL 17*

BD_Lab2/postgres@PostgreSQL 17

Query Query History

```
43         WHEN price BETWEEN 100 AND 300 THEN 'Medium'
44         ELSE 'Expensive'
45     END AS price_category
46 FROM booking;
47
48 #9
49 SELECT airline_country, COUNT(*) AS airline_count FROM airline
50 GROUP BY airline_country
51 ORDER BY airline_count DESC;
52
53 #10
54 SELECT flight_id,sch_arrival_time,act_arrival_time,(act_arrival_time - sch_arrival_time)
55 FROM flights
56 WHERE act_arrival_time > sch_arrival_time;
```

Data Output Messages Notifications

Showing rows: 1 to 30 Page No: 1 of 1

	flight_id [FK] integer	sch_arrival_time timestamp without time zone	act_arrival_time timestamp without time zone	delay interval
1	1	2025-01-01 10:30:00	2025-01-01 10:40:00	00:10:00
2	2	2025-01-01 11:20:00	2025-01-01 11:25:00	00:05:00
3	3	2025-01-01 12:45:00	2025-01-01 12:50:00	00:05:00
4	4	2025-01-02 09:30:00	2025-01-02 09:36:00	00:06:00
5	5	2025-01-02 14:30:00	2025-01-02 14:35:00	00:05:00
6	6	2025-01-03 08:10:00	2025-01-03 08:12:00	00:02:00
7	7	2025-01-03 15:20:00	2025-01-03 15:28:00	00:08:00
8	8	2025-01-04 11:05:00	2025-01-04 11:12:00	00:07:00
9	9	2025-01-04 18:45:00	2025-01-04 18:50:00	00:05:00
10	10	2025-01-05 13:50:00	2025-01-05 13:58:00	00:08:00
11	11	2025-01-06 10:40:00	2025-01-06 10:45:00	00:05:00
12	12	2025-01-06 12:00:00	2025-01-06 12:05:00	00:05:00
13	13	2025-01-07 09:15:00	2025-01-07 09:20:00	00:05:00
14	14	2025-01-07 14:25:00	2025-01-07 14:40:00	00:15:00

Total rows: 30 Query complete 00:00:00.094

✓ Successfully run. Total query runtime: 94 msec. 30 rows affected. ✕

LF Ln 54, Col 1