

Object Explorer

- booking\_flight
  - Columns (5)
    - booking\_flight\_id
    - booking\_id
    - flight\_id
    - created\_at
    - update\_at
  - Constraints
  - Indexes
  - RLS Policies
  - Rules
  - Triggers
- flights
- passengers
  - Columns (10)
    - passenger\_id
    - first\_name
    - last\_name
    - date\_of\_birth
    - gender
    - country\_of\_citizenship
    - country\_of\_residence
    - passport\_number
    - created\_at
    - update\_at
  - Constraints
  - Indexes
  - RLS Policies
  - Rules
  - Triggers

lab3/postgres@PostgreSQL 18

Query Query History

```
1 --1
2 select upper(airline_country) from airline;
```

Data Output Messages Notifications

SQL

Showing rows: 1 to 50 Page No: 1 of 1

	upper text
1	RUSSIA
2	BRAZIL
3	SLOVENIA
4	FRANCE
5	KAZAKHSTAN
6	PANAMA
7	IRAN
8	GREECE
9	VENEZUELA
10	INDONESIA
11	PHILIPPINES
12	RUSSIA

Total rows: 50 Query complete 00:00:00.174

✓ Successfully run. Total query runtime: 172 msec. 50 rows affected. ✕

CRLF Ln 2, Col 31

Object Explorer

- Foreign Data Wrappers
- Languages
- Publications
- Schemas (1)
  - public
    - Aggregates
    - Collations
    - Domains
    - FTS Configurations
    - FTS Dictionaries
    - FTS Parsers
    - FTS Templates
    - Foreign Tables
    - Functions
    - Materialized Views
    - Operators
    - Procedures
    - Sequences
    - Tables (10)
      - airline
        - Columns (6)
          - airline\_id
          - airline\_code
          - airline\_name
          - airline\_country
          - created\_at
          - update\_at
        - Constraints
        - Indexes
        - RLS Policies
        - Rules

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Query Query History

```
--2
SELECT REPLACE(airline_name, 'Air', 'Aero')
FROM airline;
```

Data Output Messages Notifications

Showing rows: 1 to 50 Page No: 1 of 1

	replace text
5	YLQ
6	NGL
7	0
8	QIG
9	NQX
10	SOZ
11	IVA
12	KOQ
13	IFH
14	PIR
15	KKG
16	DUC
17	YLP
18	KIQ
19	CSC
20	SSL
21	YDQ

Total rows: 50 Query complete 00:00:00.056

CRLF Ln 3, Col 13

Object Explorer

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  - Columns (5)
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    - booking\_id
    - flight\_id
    - created\_at
    - update\_at
  - Constraints
  - Indexes
  - RLS Policies
  - Rules
  - Triggers
- flights
- passengers
  - Columns (10)
    - passenger\_id
    - first\_name
    - last\_name
    - date\_of\_birth
    - gender
    - country\_of\_citizenship
    - country\_of\_residence
    - passport\_number
    - created\_at
    - update\_at
  - Constraints
  - Indexes
  - RLS Policies
  - Rules
  - Triggers

lab3/postgres@PostgreSQL 18

No limit

Query Query History

```
1  --3
2  SELECT flight_id
3  FROM flights
4  WHERE airline_id IN (1, 2)
5  GROUP BY flight_id
6  HAVING COUNT(DISTINCT airline_id) = 2;
7
```

Data Output Messages Notifications

flight\_id  
[PK] integer

✓ Successfully run. Total query runtime: 93 msec. 0 rows affected. ✕

Total rows: 0 Query complete 00:00:00.093

CRLF Ln 1, Col 4



Object Explorer

- FTS Templates
- Foreign Tables
- Functions
- Materialized Views
- Operators
- Procedures
- Sequences
- Tables (10)
  - airline
    - Columns (6)
      - airline\_id
      - airline\_code
      - airline\_name
      - airline\_country
      - created\_at
      - update\_at
    - Constraints
    - Indexes
    - RLS Policies
    - Rules
    - Triggers
  - airport
  - baggage
  - baggage\_check
  - boarding\_pass
  - booking
  - booking\_flight
  - flights
  - passengers
  - security\_check

lab3/postgres@PostgreSQL 18

Query Query History

```
1 --4
2 SELECT airport_name
3 FROM airport
4 WHERE airport_name LIKE '%Reginal%' AND airport_name LIKE '%Air%';
```

Data Output Messages Notifications

airport\_name  
character varying (50)

Total rows: 0 Query complete 00:00:00.082

CRLF Ln 4, Col 22

Object Explorer

- > indexes
- > RLS Policies
- > Rules
- > Triggers
- > 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
    - update\_at
  - > Constraints
  - > Indexes
  - > RLS Policies
  - > Rules
  - > Triggers
  - > security\_check
  - > Trigger Functions

lab3/postgres@PostgreSQL 18

No limit

Query Query History

```
1 --5
2 SELECT
3     first_name,
4     TO_CHAR(date_of_birth, 'Month DD, YYYY') AS formatted_birth_date
5 FROM passengers;
```

Data Output Messages Notifications

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

	first_name	formatted_birth_date
	character varying (50)	text
1	Hilde	January 03, 2000
2	Arvy	June 09, 1974
3	Reinald	June 07, 1982
4	Con	October 17, 1986
5	Wayne	April 22, 1996
6	Tildy	April 15, 2004
7	Byrle	July 07, 1985
8	Howard	March 29, 1984
9	Alphonso	August 30, 1975
10	Fairfax	July 08, 1981
11	Vanda	May 17, 1977
12	Terra	January 02, 1977

Total rows: 200 Query complete 00:00:00.113

CRLF Ln 5, Col 17

Object Explorer

- > Constraints
- > Indexes
- > RLS Policies
- > Rules
- > Triggers
- > airport
- > baggage
- > baggage\_check
- > boarding\_pass
- > booking
- > booking\_flight
- ▼ flights
  - ▼ Columns (14)
    - flight\_id
    - flight\_no
    - scheduled\_departure
    - scheduled\_arrival
    - departure\_airport\_id
    - arrival\_airport\_id
    - departing\_gate
    - arriving\_gate
    - airline\_id
    - status
    - actual\_departure
    - actual\_arrival
    - created\_at
    - update\_at
  - > Constraints
  - > Indexes
  - > RLS Policies
  - > Rules

lab3/postgres@PostgreSQL 18

No limit

Query Query History

```
--6
SELECT flight_no
FROM flights
WHERE actual_arrival > scheduled_arrival;
```

Data Output Messages Notifications

Showing rows: 1 to 509 Page No: 1 of 1

	flight_no
	character varying (50)
1	US-CT
2	US-NM
3	RU-KR
4	US-AZ
5	IN-OR
6	CA-NL
7	BR-PE
8	TH-32
9	US-MS
10	GB-ENG
11	UZ-SU
12	US-OR

Total rows: 509 Query complete 00:00:00.182

CRLF Ln 4, Col 42



Object Explorer

- > Constraints
- > Indexes
- > RLS Policies
- > Rules
- > Triggers
- > airport
- > baggage
- > baggage\_check
- > boarding\_pass
- > booking
- > booking\_flight
- > flights
  - Columns (14)
    - flight\_id
    - flight\_no
    - scheduled\_departure
    - scheduled\_arrival
    - departure\_airport\_id
    - arrival\_airport\_id
    - departing\_gate
    - arriving\_gate
    - airline\_id
    - status
    - actual\_departure
    - actual\_arrival
    - created\_at
    - update\_at
  - > Constraints
  - > Indexes
  - > RLS Policies
  - > Rules

lab3/postgres@PostgreSQL 18

Query Query History

```
--7
SELECT
    first_name,
    CASE
        WHEN EXTRACT(YEAR FROM AGE(date_of_birth)) BETWEEN 18 AND 35 THEN 'Young'
        WHEN EXTRACT(YEAR FROM AGE(date_of_birth)) BETWEEN 36 AND 55 THEN 'Adult'
        ELSE 'Other'
    END AS age_group
FROM passengers;
```

Data Output Messages Notifications

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

	first_name	age_group
	character varying (50)	text
1	Hilde	Young
2	Arvy	Adult
3	Reinald	Adult
4	Con	Adult
5	Wayne	Young
6	Tildy	Young
7	Byrle	Adult
8	Howard	Adult
9	Alphonso	Adult
10	Fairfax	Adult
11	Vanda	Adult
12	Terra	Adult

Total rows: 200 Query complete 00:00:00.109

✓ Successfully run. Total query runtime: 109 msec. 200 rows affected. ✕

CRLF Ln 6, Col 49

Object Explorer

booking\_flight

Columns (5)

booking\_flight\_id

booking\_id

flight\_id

created\_at

update\_at

Constraints

Indexes

RLS Policies

Rules

Triggers

flights

passengers

Columns (10)

passenger\_id

first\_name

last\_name

date\_of\_birth

gender

country\_of\_citizenship

country\_of\_residence

passport\_number

created\_at

update\_at

Constraints

Indexes

RLS Policies

Rules

Triggers

lab3/postgres@PostgreSQL 18

Query

Query History

1

2

3

4

5

6

7

8

9

10

--8

SELECT

booking\_id,

price,

CASE

WHEN price < 100 THEN 'Cheap'

WHEN price BETWEEN 100 AND 500 THEN 'Medium'

ELSE 'Expensive'

END AS price\_category

FROM Booking;

Data Output

Messages

Notifications

Showing rows: 1 to 500

Page No: 1

of 1

	booking_id [PK] integer	price numeric (7,2)	price_category text
1	2	4216.60	Expensive
2	3	5782.37	Expensive
3	4	102.96	Medium
4	6	7813.55	Expensive
5	7	1346.71	Expensive
6	9	7015.82	Expensive
7	10	1668.38	Expensive
8	12	3283.89	Expensive
9	15	2559.77	Expensive
10	18	6594.51	Expensive
11	21	1742.28	Expensive
12	22	5133.60	Expensive

Total rows: 500    Query complete 00:00:00.000



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  - Columns (10)
    - passenger\_id
    - first\_name
    - last\_name
    - date\_of\_birth
    - gender
    - country\_of\_citizenship
    - country\_of\_residence
    - passport\_number
    - created\_at
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lab3/postgres@PostgreSQL 18

Query Query History

```
--9
SELECT
  airline_country,
  COUNT(airline_id) AS number_of_airlines
FROM airline
GROUP BY airline_country;
```

Data Output Messages Notifications

Showing rows: 1 to 26 Page No: 1 of 1

	airline_country	number_of_airlines
	character varying (50)	bigint
1	Indonesia	2
2	Venezuela	1
3	Hungary	1
4	China	10
5	Russia	4
6	Sweden	1
7	Brazil	3
8	Ireland	1
9	Portugal	3
10	Panama	1
11	Yemen	1
12	Argentina	1

Total rows: 26 Query complete 00:00:00.082

✓ Successfully run. Total query runtime: 82 msec. 26 rows affected. ✕

CRLF Ln 7, Col 1

Object Explorer

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  - Columns (5)
    - booking\_flight\_id
    - booking\_id
    - flight\_id
    - created\_at
    - update\_at
  - Constraints
  - Indexes
  - RLS Policies
  - Rules
  - Triggers
- flights
- passengers
  - Columns (10)
    - passenger\_id
    - first\_name
    - last\_name
    - date\_of\_birth
    - gender
    - country\_of\_citizenship
    - country\_of\_residence
    - passport\_number
    - created\_at
    - update\_at
  - Constraints
  - Indexes
  - RLS Policies
  - Rules
  - Triggers

lab3/postgres@PostgreSQL 18

Query Query History

```
--10
SELECT
    flight_id,
    scheduled_arrival,
    actual_arrival,
    (actual_arrival - scheduled_arrival) AS delay_duration
FROM flights
WHERE actual_arrival > scheduled_arrival;
```

Data Output Messages Notifications

Showing rows: 1 to 509 Page No: 1 of 1

	flight_id [PK] integer	scheduled_arrival date	actual_arrival date	delay_duration integer
1	1	2023-09-08	2023-11-07	60
2	2	2023-09-17	2024-01-23	128
3	4	2023-03-18	2023-04-07	20
4	8	2023-04-08	2023-08-01	115
5	9	2023-09-19	2023-12-03	75
6	12	2023-06-04	2023-11-17	166
7	13	2023-06-02	2023-11-09	160
8	18	2023-03-30	2023-07-21	113
9	20	2024-01-22	2024-03-06	44
10	22	2023-10-11	2024-01-04	85
11	27	2023-05-24	2023-12-23	213
12	30	2023-07-14	2023-10-23	101

Total rows: 509 Query complete 00:00:00.132

Successfully run. Total query runtime: 132 msec. 509 rows affected.