Lab 4

Tokin Alan

pgAdmin 4

File Object Tools Edit View Window Help

Welcome | public.airline/airport_db/postgres@postgres* | public.baggage/air...

public.airline/airport_db/postgres@postgres

No limit

Query | Query History

```
1 SELECT UPPER(airline_name) AS airline_name_upper
2 FROM Airline;
3
```

Scratch Pad

Data Output | Messages | Notifications

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

	airline_name_upper text
1	IPC
2	PDN
3	KLE
4	KHS
5	YLQ
6	NGL
7	0
8	QIG
9	NQX
10	SOZ
11	IVA
12	KOQ
13	IFH

Successfully run. Total query runtime: 59 msec. 50 rows affected.

Total rows: 50 | Query complete 00:00:00.059 | CRLF | Ln 2, Col 13

ENG 03:44 08.10.2025

pgAdmin 4

File Object Tools Edit View Window Help

Welcome | public.airline/airport_db/postgres@postgres* | public.baggage/air...

public.airline/airport_db/postgres@postgres

No limit

Query | Query History

```
1 UPDATE Airline
2 SET airline_name = REPLACE(airline_name, 'Air', 'Aero');
3
```

Scratch Pad

Data Output | Messages | Notifications

```
UPDATE 50

Query returned successfully in 57 msec.
```

Query returned successfully in 57 msec.

Total rows: | Query complete 00:00:00.057 | CRLF | Ln 1, Col 15

ENG 03:45 08.10.2025

pgAdmin 4

File Object Tools Edit View Window Help

Welcome | public.airline/airport_db/postgres@postgres* | public.flights/airp...

public.airline/airport_db/postgres@postgres

No limit

Query | Query History

```
1 SELECT flight_no
2 FROM Flights
3 WHERE airline_id IN (1, 2)
4 GROUP BY flight_no
5 HAVING COUNT(DISTINCT airline_id) = 2;
6
```

Scratch Pad

Data Output | Messages | Notifications

SQL

flight_no character varying (50)

Successfully run. Total query runtime: 55 msec. 0 rows affected.

Total rows: 0 | Query complete 00:00:00.055 | CRLF | Ln 4, Col 19

ENG 03:45 08.10.2025

pgAdmin 4

File Object Tools Edit View Window Help

Welcome | public.airline/airport_db/postgres@postgres* | public.flights/airp...

public.airline/airport_db/postgres@postgres

No limit

Query | Query History

```
1  SELECT *
2  FROM Airport
3  WHERE airport_name ILIKE '%Regional%'
4    AND airport_name ILIKE '%Air%';
5
```

Scratch Pad

Data Output | Messages | Notifications

SQL

	airport_id [PK] integer	airport_name character varying (50)	country character varying (50)	state character varying (50)	city character varying (50)	created_at date	update_at date

Successfully run. Total query runtime: 125 msec. 0 rows affected.

Total rows: 0 | Query complete 00:00:00.125 | CRLF | Ln 2, Col 13

pgAdmin 4

File Object Tools Edit View Window Help

Welcome | public.airline/airport_db/postgres@postgres* | public.flights/airp...

public.airline/airport_db/postgres@postgres

No limit

Query | Query History

Scratch Pad

```
SELECT
    first_name,
    last_name,
    TO_CHAR(date_of_birth, 'Month DD, YYYY') AS formatted_birth_date
FROM Passengers;

```

Data Output | Messages | Notifications

SQL

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

	first_name character varying (50)	last_name character varying (50)	formatted_birth_date text
1	Hilde	Imis	January 03, 2000
2	Arvy	Sparsholt	June 09, 1974
3	Reinald	Pococke	June 07, 1982
4	Con	Borrel	October 17, 1986
5	Wayne	Bangs	April 22, 1996
6	Tildy	Shackleford	April 15, 2004
7	Byrle	Oram	July 07, 1985
8	Howard	Igo	March 29, 1984
9	Alphonso	Philippou	August 30, 1975
10	Fairfax	Needham	July 08, 1981
11	Vanda	Prime	May 17, 1977
12	Terra	Wimmer	January 02, 1977
13	Domenic	Blaszczak	December 31, 2001

Successfully run. Total query runtime: 71 msec. 200 rows affected.

Total rows: 200 | Query complete 00:00:00.071 | CRLF | Ln 6, Col 1

ENG 03:46 08.10.2025

pgAdmin 4

File Object Tools Edit View Window Help

Welcome | public.airline/airport_db/postgres@postgres* | public.flights/airp...

public.airline/airport_db/postgres@postgres

No limit

Query | Query History

```
1 SELECT *
2 FROM Flights
3 WHERE actual_arrival > scheduled_arrival;
4
```

Scratch Pad

Data Output | Messages | Notifications

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

	flight_id [PK] integer	flight_no character varying (50)	scheduled_departure date	scheduled_arrival date	departure_airport_id integer	arrival_airport_id integer	departing_gate character varying (50)	arriving_gate character varying (50)	airline_id integer	status character varying (50)	actual_departure date	actual_arrival date	created_at date	update_at date
1	1	US-CT	2024-01-22	2023-09-08	12	15	9	649	39	Pŷheck-in open	2023-10-30	2023-11-07	2023-03-30	2023-06-23
2	2	US-NM	2023-07-21	2023-09-17	13	16	4216	90	34	Boarding	2024-02-09	2024-01-23	2023-11-16	2023-12-07
3	4	RU-KR	2024-01-02	2023-03-18	3	19	151	66	33	Pŷheck-in open	2023-10-10	2023-04-07	2023-12-16	2023-05-26
4	8	US-AZ	2023-07-29	2023-04-08	13	6	5045	1985	12	Delayed	2023-07-10	2023-08-01	2023-07-09	2023-05-10
5	9	IN-OR	2023-05-18	2023-09-19	6	9	659	621	13	Delayed	2023-06-17	2023-12-03	2024-02-29	2023-04-28
6	12	CA-NL	2023-03-22	2023-06-04	12	13	40	2592	27	Boarding	2023-04-28	2023-11-17	2023-11-29	2023-04-25
7	13	BR-PE	2024-01-16	2023-06-02	13	20	1891	5429	1	Delayed	2023-08-19	2023-11-09	2023-06-29	2023-11-09
8	18	TH-32	2024-02-05	2023-03-30	8	19	478	[null]	17	Boarding	2023-04-21	2023-07-21	2023-10-12	2024-03-06
9	20	US-MS	2024-02-06	2024-01-22	10	1	346	56	38	Delayed	2023-10-30	2024-03-06	2023-07-26	2023-09-17
10	22	GB-ENG	2023-11-03	2023-10-11	2	2	400	85	44	Delayed	2024-02-05	2024-01-04	2023-11-09	2023-08-12
11	27	UZ-SU	2023-05-13	2023-05-24	11	2	1027	190	43	Delayed	2024-02-24	2023-12-23	2023-07-21	2023-11-06
12	30	US-OR	2024-03-10	2023-07-14	6	14	214	285	11	Departed	2023-09-20	2023-10-23	2023-12-11	2023-07-06
13	32	KP-10	2024-03-12	2023-06-06	2	2	4547	2999	25	Departed				

Successfully run. Total query runtime: 107 msec. 509 rows affected.

Total rows: 509 | Query complete 00:00:00.107 | CRLF | Ln 3, Col 41

ENG 03:47 08.10.2025

pgAdmin 4

File Object Tools Edit View Window Help

Welcome | public.airline/airport_db/postgres@postgres* | public.flights/airp...

public.airline/airport_db/postgres@postgres

No limit

Query | Query History

```sql
SELECT
    first_name,
    last_name,
    DATE_PART('year', AGE(CURRENT_DATE, date_of_birth)) AS age,
    CASE
        WHEN DATE_PART('year', AGE(CURRENT_DATE, date_of_birth)) BETWEEN 18 AND 35 THEN 'Young'
        WHEN DATE_PART('year', AGE(CURRENT_DATE, date_of_birth)) BETWEEN 36 AND 55 THEN 'Adult'
        ELSE 'Other'
    END AS age_group
FROM Passengers;
```

Scratch Pad

Data Output | Messages | Notifications

SQL

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

	first_name character varying (50)	last_name character varying (50)	age double precision	age_group text
1	Hilde	Imis	25	Young
2	Arvy	Sparsholt	51	Adult
3	Reinald	Pococke	43	Adult
4	Con	Borrel	38	Adult
5	Wayne	Bangs	29	Young
6	Tildy	Shackleford	21	Young
7	Byrle	Oram	40	Adult
8	Howard	Igo	41	Adult
9	Alphonso	Philippou	50	Adult
10	Fairfax	Needham	44	Adult
11	Vanda	Prime	48	Adult
12	Terra	Wimmer	48	Adult
13	Domenic	Blaszczak	23	Young

Successfully run. Total query runtime: 100 msec. 200 rows affected.

Total rows: 200 | Query complete 00:00:00.100 | CRLF | Ln 11, Col 1

ENG 03:47 08.10.2025

pgAdmin 4

File Object Tools Edit View Window Help

Welcome | public.airline/airport_db/postgres@postgres* | public.flights/airp...

public.airline/airport_db/postgres@postgres

No limit

Query | Query History

Scratch Pad

```sql
SELECT
    booking_id,
    price,
    CASE
        WHEN price < 10000 THEN 'Cheap'
        WHEN price BETWEEN 10000 AND 30000 THEN 'Medium'
        ELSE 'Expensive'
    END AS price_category
FROM Booking;
```

Data Output | Messages | Notifications

SQL

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	Cheap
2	3	5782.37	Cheap
3	4	102.96	Cheap
4	6	7813.55	Cheap
5	7	1346.71	Cheap
6	9	7015.82	Cheap
7	10	1668.38	Cheap
8	12	3283.89	Cheap
9	15	2559.77	Cheap
10	18	6594.51	Cheap
11	21	1742.28	Cheap
12	22	5133.60	Cheap
13	24	1959.02	Cheap

Successfully run. Total query runtime: 95 msec. 500 rows affected.

Total rows: 500 | Query complete 00:00:00.095 | CRLF | Ln 6, Col 14

ENG 03:47 08.10.2025

pgAdmin 4

File Object Tools Edit View Window Help

Welcome | public.airline/airport_db/postgres@postgres* | public.flights/airp...

public.airline/airport_db/postgres@postgres

No limit

Query | Query History

```
1  SELECT airline_country, COUNT(*) AS airline_count
2  FROM Airline
3  GROUP BY airline_country
4  ORDER BY airline_count DESC;
5
```

Scratch Pad

Data Output | Messages | Notifications

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

	airline_country character varying (50)	airline_count bigint
1	China	10
2	Poland	5
3	Russia	4
4	Brazil	3
5	Portugal	3
6	France	3
7	Philippines	2
8	Indonesia	2
9	Iran	1
10	Sweden	1
11	Peru	1
12	Senegal	1
13	Kazakhstan	1

Successfully run. Total query runtime: 64 msec. 26 rows affected.

Total rows: 26 | Query complete 00:00:00.064 | CRLF | Ln 3, Col 18

ENG 03:49 08.10.2025

pgAdmin 4

File Object Tools Edit View Window Help

Welcome | public.airline/airport_db/postgres@postgres* | public.flights/airp...

public.airline/airport_db/postgres@postgres

No limit

Query | Query History

```
1 SELECT flight_id, flight_no, scheduled_arrival, actual_arrival
2 FROM Flights
3 WHERE actual_arrival > scheduled_arrival;
4
```

Scratch Pad

Data Output | Messages | Notifications

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

	flight_id [PK] integer	flight_no character varying (50)	scheduled_arrival date	actual_arrival date
1	1	US-CT	2023-09-08	2023-11-07
2	2	US-NM	2023-09-17	2024-01-23
3	4	RU-KR	2023-03-18	2023-04-07
4	8	US-AZ	2023-04-08	2023-08-01
5	9	IN-OR	2023-09-19	2023-12-03
6	12	CA-NL	2023-06-04	2023-11-17
7	13	BR-PE	2023-06-02	2023-11-09
8	18	TH-32	2023-03-30	2023-07-21
9	20	US-MS	2024-01-22	2024-03-06
10	22	GB-ENG	2023-10-11	2024-01-04
11	27	UZ-SU	2023-05-24	2023-12-23
12	30	US-OR	2023-07-14	2023-10-23
13	32	KP-10	2023-06-06	2023-10-01

Successfully run. Total query runtime: 184 msec. 509 rows affected.

Total rows: 509 | Query complete 00:00:00.184 | CRLF | Ln 1, Col 28

ENG 03:49 08.10.2025