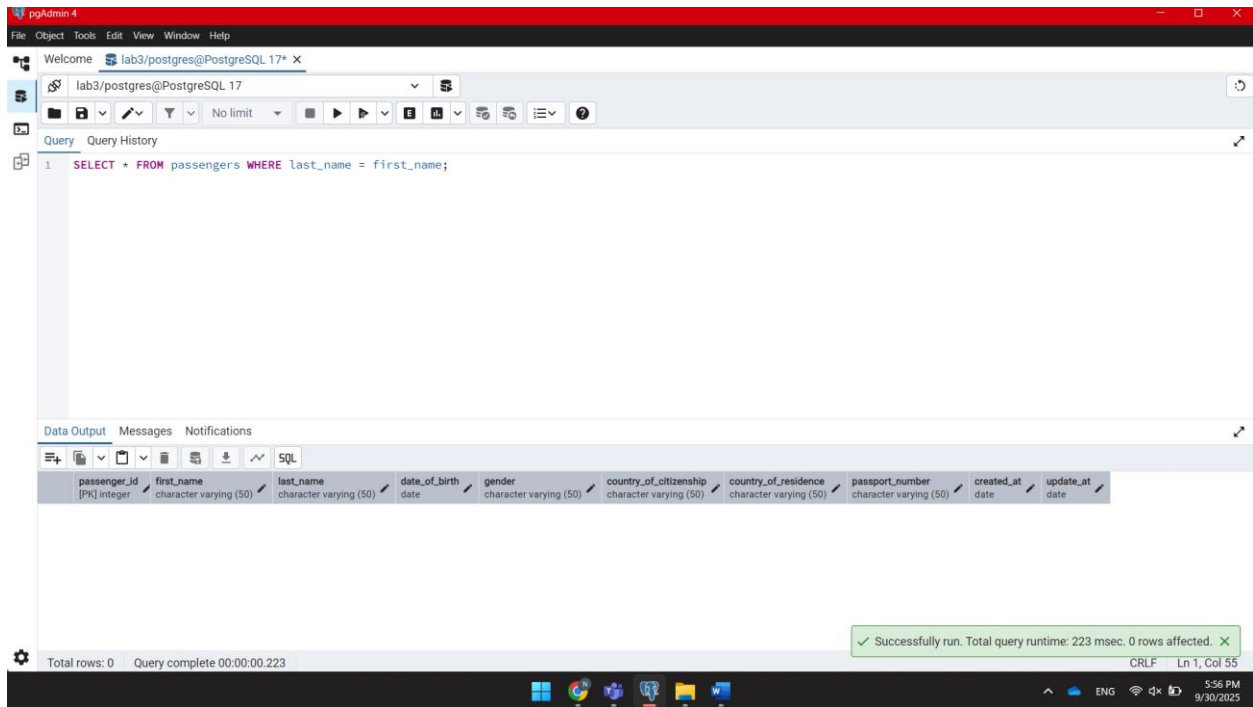
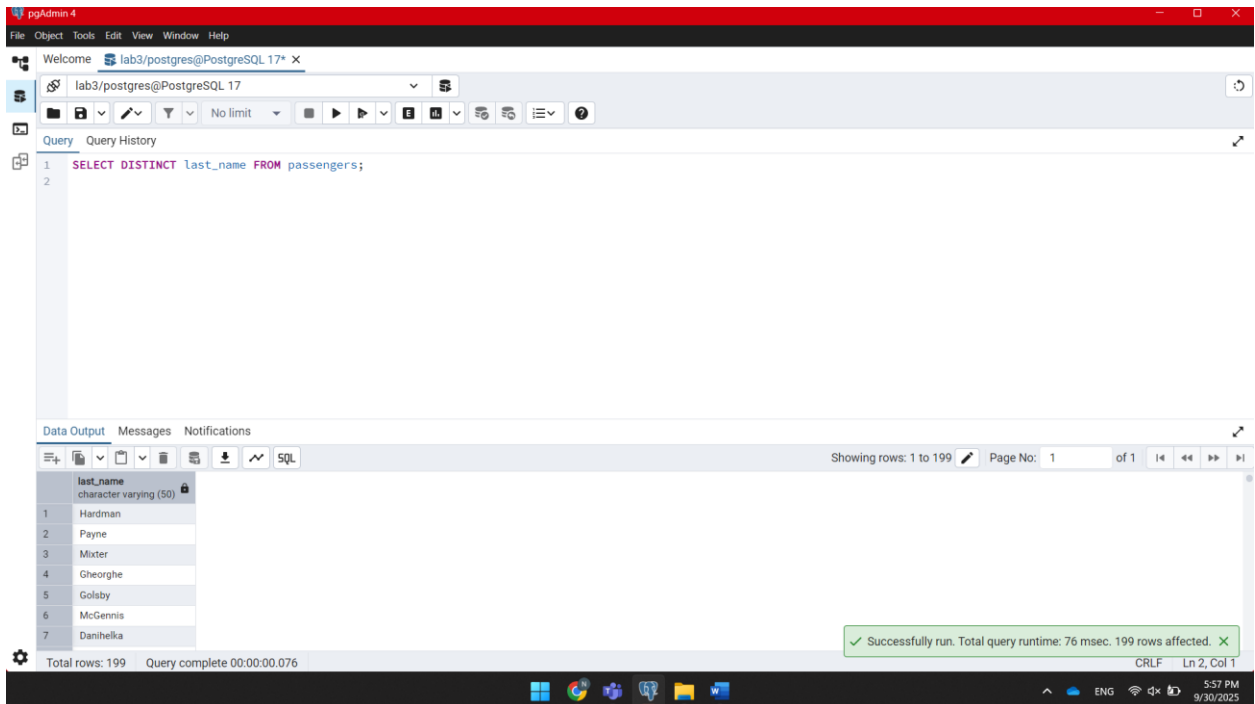


# Lab -3



1 SELECT \* FROM passengers WHERE last\_name = first\_name;



2 SELECT DISTINCT last\_name FROM passengers;

pgAdmin 4

Welcome lab3/postgres@PostgreSQL 17\* X

lab3/postgres@PostgreSQL 17

Query Query History

```
1 SELECT * FROM passengers WHERE gender = 'Male' AND date_of_birth BETWEEN '1990-01-01' AND '2000-12-31';
```

Data Output Messages Notifications

Showing rows: 1 to 21 Page No: 1 of 1

	passenger_id [PK] integer	first_name character varying (50)	last_name character varying (50)	date_of_birth date	gender character varying (50)	country_of_citizenship character varying (50)	country_of_residence character varying (50)	passport_number character varying (50)	created_at date	update_at date
1	5	Wayne	Bangs	1996-04-22	Male	Bosnia and Herzegovina	Canada	512588744-7	2023-12-11	2023-10-21
2	14	Conrad	Southerell	1998-01-25	Male	France	Japan	765817217-0	2023-04-04	2023-10-09
3	17	Wood	Yve	1997-01-18	Male	Latvia	China	985023334-6	2023-05-11	2023-08-22
4	26	Warden	Huett	2000-11-04	Male	Brazil	Portugal	389393096-5	2023-07-06	2023-10-05
5	62	Peyton	Durnian	1993-09-16	Male	Russia	China	846269581-3	2023-10-10	2024-02-09
6	73	Spencer	Moffet	1994-11-01	Male	Colombia	Philippines	127047949-0	2023-03-20	2023-05-21
7	82	Boote	Laurisch	1996-09-12	Male	Philippines	Bahamas			

✓ Successfully run. Total query runtime: 88 msec. 21 rows affected. X

Total rows: 21 Query complete 00:00:00.088 CRLF Ln 1, Col 104

**3 SELECT \* FROM passengers WHERE gender = 'Male' AND date\_of\_birth BETWEEN '1990-01-01' AND '2000-12-31';**

pgAdmin 4

Welcome lab3/postgres@PostgreSQL 17\* X

lab3/postgres@PostgreSQL 17

Query Query History

```
1 SELECT DATE_TRUNC('month', created_at) AS month,
2 SUM(price) AS total_price
3 FROM booking
4 GROUP BY month
5 ORDER BY month;
6
```

Data Output Messages Notifications

Showing rows: 1 to 13 Page No: 1 of 1

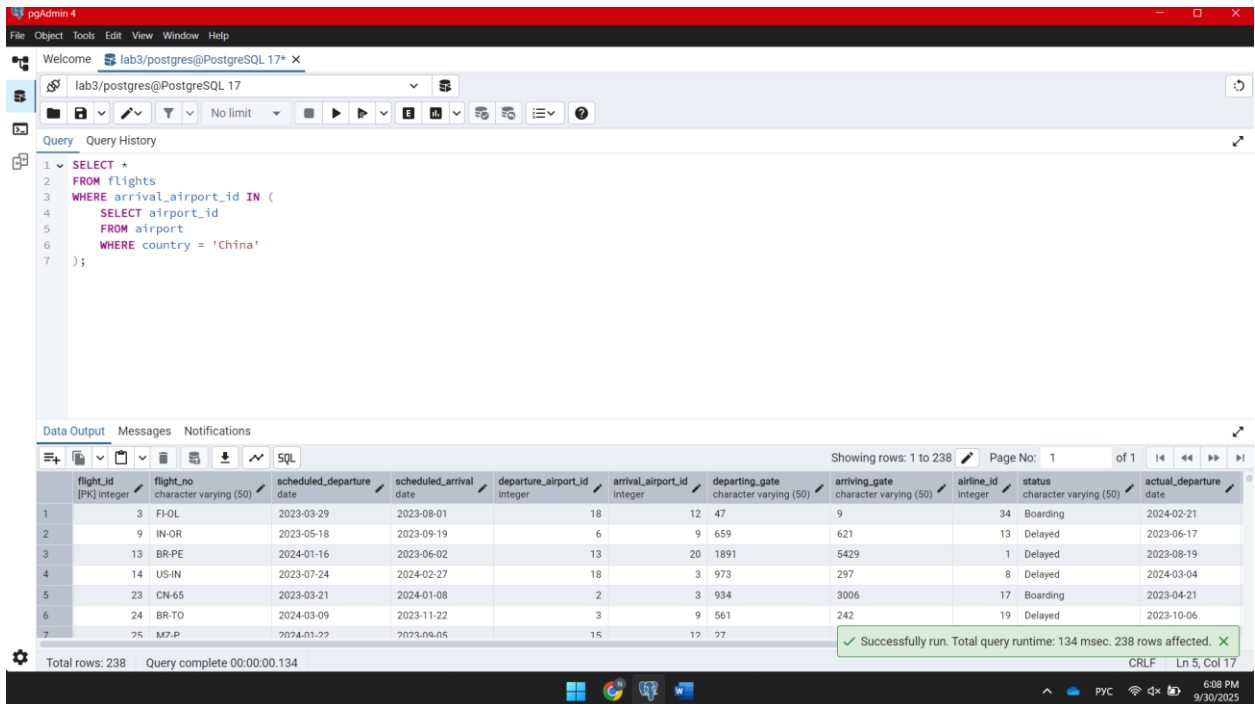
	month timestamp with time zone	total_price numeric
1	2023-03-01 00:00:00+05	155294.81
2	2023-04-01 00:00:00+05	240649.84
3	2023-05-01 00:00:00+05	207361.58
4	2023-06-01 00:00:00+05	177058.76
5	2023-07-01 00:00:00+05	158703.58
6	2023-08-01 00:00:00+05	213237.05
7	2023-09-01 00:00:00+05	124509.29

✓ Successfully run. Total query runtime: 88 msec. 13 rows affected. X

Total rows: 13 Query complete 00:00:00.088 CRLF Ln 6, Col 1

**4 SELECT DATE\_TRUNC('month', created\_at) AS month,**

**SUM(price) AS total\_price**  
**FROM booking**  
**GROUP BY month**  
**ORDER BY month;**



The screenshot shows the pgAdmin 4 interface. The query editor contains the following SQL query:

```
1 SELECT *
2 FROM flights
3 WHERE arrival_airport_id IN (
4     SELECT airport_id
5     FROM airport
6     WHERE country = 'China'
7 );
```

The query results are displayed in a table with the following columns: 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), and actual\_departure date. The table shows 7 rows of data.

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
1	3 FI-OL	2023-03-29	2023-08-01	18	12	47	9	34	Boarding	2024-02-21
2	9 IN-OR	2023-05-18	2023-09-19	6	9	659	621	13	Delayed	2023-06-17
3	13 BR-PE	2024-01-16	2023-06-02	13	20	1891	5429	1	Delayed	2023-08-19
4	14 US-IN	2023-07-24	2024-02-27	18	3	973	297	8	Delayed	2024-03-04
5	23 CN-65	2023-03-21	2024-01-08	2	3	934	3006	17	Boarding	2023-04-21
6	24 BR-TO	2024-03-09	2023-11-22	3	9	561	242	19	Delayed	2023-10-06
7	25 M7-P	2024-01-22	2023-08-05	15	12	27				

Successfully run. Total query runtime: 134 msec. 238 rows affected.

**5 SELECT \***  
**FROM flights**  
**WHERE arrival\_airport\_id IN (**  
 **SELECT airport\_id**  
 **FROM airport**  
 **WHERE country = 'China'**  
**);**

pgAdmin 4

Welcome lab3/postgres@PostgreSQL 17\* X

lab3/postgres@PostgreSQL 17

Query Query History

```
1 SELECT *
2 FROM airline
3 WHERE airline_country IN ('France', 'Portugal', 'Poland')
4 AND created_at BETWEEN '2023-11-01' AND '2024-03-31';
```

Data Output Messages Notifications

Showing rows: 1 to 7 Page No: 1 of 1

	airline_id [PK] integer	airline_code character varying (50)	airline_name character varying (50)	airline_country character varying (50)	created_at date	update_at date
1	4	OOKB	KHS	France	2023-11-18	2024-02-18
2	13	OIFE	IFH	Portugal	2024-01-09	2023-11-09
3	15	SYKZ	KKG	Poland	2023-12-24	2023-10-30
4	24	ZSRG	RUG	Portugal	2024-03-11	2023-08-24
5	28	RKPD	JDG	Poland	2023-11-03	2023-12-06
6	30	CYST	YST	Poland	2023-11-24	2023-10-07
7	43	AYKM	KMA	France	2023-11-21	2023-05-30

Successfully run. Total query runtime: 56 msec. 7 rows affected. X

Total rows: 7 Query complete 00:00:00.056 CRLF Ln 3, Col 15

**6 SELECT \***

**FROM airline**

**WHERE airline\_country IN ('France', 'Portugal', 'Poland')**

**AND created\_at BETWEEN '2023-11-01' AND '2024-03-31';**

pgAdmin 4

Welcome lab3/postgres@PostgreSQL 17\* X

lab3/postgres@PostgreSQL 17

Query Query History

```
1 SELECT airline_name
2 FROM airline
3 WHERE airline_country = 'Kazakhstan';
```

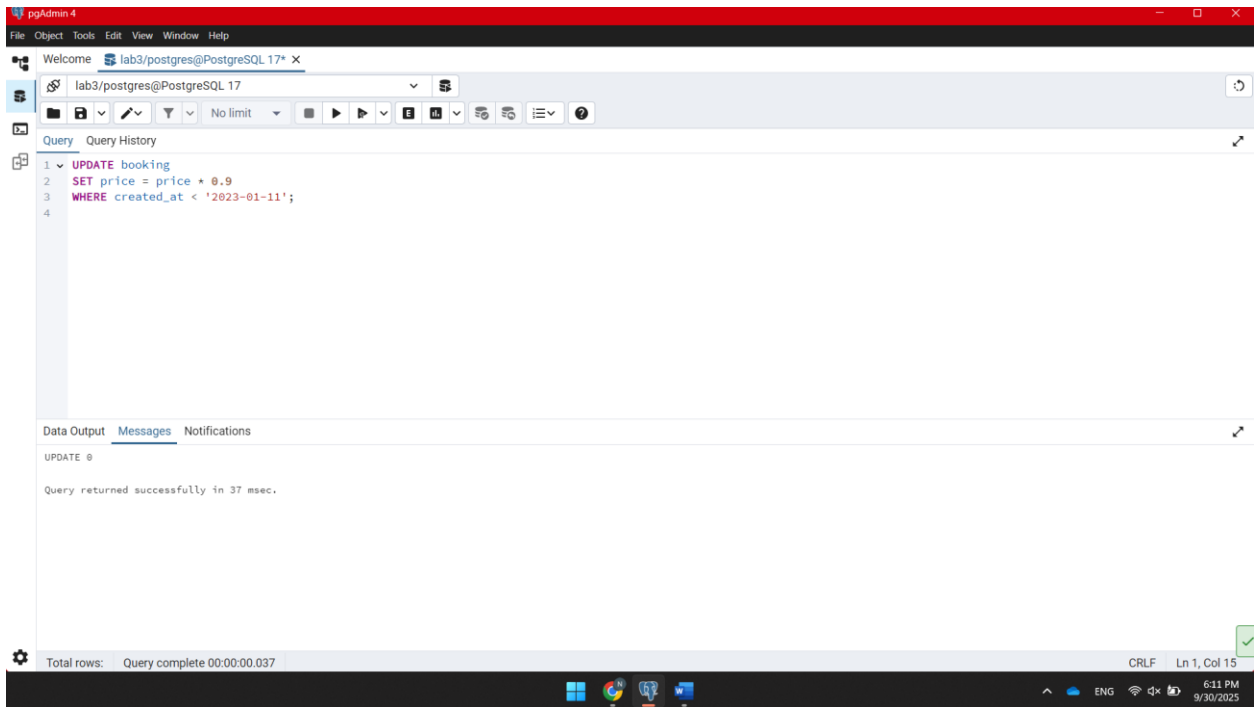
Data Output Messages Notifications

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

	airline_name character varying (50)
1	YLQ

Total rows: 1 Query complete 00:00:00.083 CRLF Ln 3, Col 15

**7 SELECT airline\_name**  
**FROM airline**  
**WHERE airline\_country = 'Kazakhstan';**



**8 UPDATE booking**  
**SET price = price \* 0.9**  
**WHERE created\_at < '2023-01-11';**

pgAdmin 4

File Object Tools Edit View Window Help

Welcome lab3/postgres@PostgreSQL 17\* X

lab3/postgres@PostgreSQL 17

Query Query History

```
1 SELECT *
2 FROM baggage
3 WHERE weight_in_kg > 25
4 ORDER BY weight_in_kg DESC
5 LIMIT 3;
6
```

Data Output Messages Notifications

Showing rows: 1 to 3 Page No: 1 of 1

	baggage_id [PK] Integer	weight_in_kg numeric (4,2)	created_date date	update_date date	booking_id Integer
1	321	49.80	2023-07-07	2023-11-10	349
2	61	49.57	2023-04-21	2023-07-31	464
3	102	49.44	2024-01-24	2023-11-01	53

Total rows: 3 Query complete 00:00:00.117

Successfully run. Total query runtime: 116 msec. 3 rows affected. X

CRLF Ln 4, Col 22

6:12 PM 9/30/2025

**9 SELECT \***

**FROM baggage**

**WHERE weight\_in\_kg > 25**

**ORDER BY weight\_in\_kg DESC**

**LIMIT 3;**

pgAdmin 4

Welcome lab3/postgres@PostgreSQL 17\* X

lab3/postgres@PostgreSQL 17

Query Query History

```
1 SELECT CONCAT(first_name, ' ', last_name) AS full_name
2 FROM passengers
3 ORDER BY date_of_birth DESC
4 LIMIT 1;
```

Data Output Messages Notifications

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

	full_name text
1	Bernie Michal

Total rows: 1 Query complete 00:00:00.087

Successfully run. Total query runtime: 87 msec. 1 rows affected.

CRLF Ln 4, Col 9

6:13 PM 9/30/2025

**10 SELECT CONCAT(first\_name, ' ', last\_name) AS full\_name**  
**FROM passengers**  
**ORDER BY date\_of\_birth DESC**  
**LIMIT 1;**

pgAdmin 4

Welcome lab3/postgres@PostgreSQL 17\* X

lab3/postgres@PostgreSQL 17

Query Query History

```
1 SELECT
2     booking_platform,
3     MIN(price) AS cheapest_price
4 FROM booking
5 GROUP BY booking_platform;
```

Data Output Messages Notifications

Showing rows: 1 to 494 Page No: 1 of 1

	booking_platform character varying (50)	cheapest_price numeric
1	Schmitt-Qulgley	4966.58
2	Rohan, Hamill and Bosco	7118.84
3	Kutch-Russel	2113.46
4	Veum-Corwin	2183.14
5	Wolff, Wuckert and Satterfield	4911.89
6	Reichel, Deckow and Qultzon	8389.34
7	Murazik-Gulgowski	950.80

Total rows: 494 Query complete 00:00:00.104

Successfully run. Total query runtime: 104 msec. 494 rows affected.

CRLF Ln 5, Col 27

6:14 PM 9/30/2025

## 11 SELECT

booking\_platform,

MIN(price) AS cheapest\_price

FROM booking

GROUP BY booking\_platform;

The screenshot shows the pgAdmin 4 interface. The query editor contains the following SQL query:

```
1 SELECT *
2 FROM airline
3 WHERE airline_code ~ '[0-9]';
```

The query has been executed successfully, and the results are displayed in the Data Output pane. The results show one row with the following data:

airline_id	airline_code	airline_name	airline_country	created_at	update_at
22	2AK6	HGZ	Philippines	2024-03-13	2023-10-20

The status bar at the bottom indicates: Total rows: 1, Query complete 00:00:00.052. A message box at the bottom right states: Successfully run. Total query runtime: 52 msec. 1 rows affected.

## 12 SELECT \*

FROM airline

WHERE airline\_code ~ '[0-9]';



pgAdmin 4

Welcome lab3/postgres@PostgreSQL 17\* X

lab3/postgres@PostgreSQL 17

Query Query History

```
1 SELECT *
2 FROM airline
3 ORDER BY created_at DESC
4 LIMIT 5;
```

Data Output Messages Notifications

Showing rows: 1 to 5 Page No: 1 of 1

	airline_id [PK] integer	airline_code character varying (50)	airline_name character varying (50)	airline_country character varying (50)	created_at date	update_at date
1	9	KNQX	NQX	Venezuela	2024-03-16	2023-09-16
2	40	LTBD	CII	Argentina	2024-03-15	2024-01-29
3	22	2AK6	HGZ	Philippines	2024-03-13	2023-10-20
4	24	ZSRG	RUG	Portugal	2024-03-11	2023-08-24
5	45	HCMV	BUO	Sweden	2024-02-18	2023-12-10

Successfully run. Total query runtime: 155 msec. 5 rows affected. X

Total rows: 5 Query complete 00:00:00.155 CRLF Ln 2, Col 13

6:18 PM 9/30/2025

13 SELECT \*

FROM airline

ORDER BY created\_at DESC

LIMIT 5;

pgAdmin 4

Welcome lab3/postgres@PostgreSQL 17\* X

lab3/postgres@PostgreSQL 17

Query Query History

```
1 SELECT *
2 FROM booking
3 WHERE booking_id BETWEEN 200 AND 300
4 AND status <> 'Checked';
5
```

Data Output Messages Notifications

Showing rows: 1 to 101 Page No: 1 of 1

	booking_id [PK] integer	passenger_id integer	booking_platform character varying (50)	created_at date	update_at date	status character varying (50)	price numeric (7,2)
1	200	32	O'Hara-Monahan	2023-03-25	2023-04-21	Male	7368.73
2	201	180	Klein-Turcotte	2023-06-26	2023-12-26	Male	3153.71
3	202	130	Murazik, Bartoletti and Gutmann	2023-11-10	2023-04-25	Male	922.66
4	203	184	Crona, Braun and Bernhard	2023-07-03	2023-07-02	Female	2581.41
5	204	2	Weber, Cruickshank and Rosen...	2024-02-12	2024-02-16	Male	3087.02
6	205	90	Keeling-Gibson	2023-07-29	2023-08-02	Female	4965.87
7	206	113	Herman, Satterfield and Maggio	2024-01-26	2023-06-12	Female	416.30

Successfully run. Total query runtime: 79 msec. 101 rows affected. X

Total rows: 101 Query complete 00:00:00.079 CRLF Ln 4, Col 11

6:20 PM 9/30/2025

14SELECT \*

FROM booking

WHERE booking\_id BETWEEN 200 AND 300

AND status <> 'Checked';

The screenshot shows the pgAdmin 4 interface. The query editor contains the following SQL query:

```
1 SELECT *
2 FROM baggage_check
3 WHERE DATE_TRUNC('month', update_at) = DATE_TRUNC('month', created_at)
4 AND update_at < created_at;
5
```

The query has been executed successfully, and the results are displayed in the Data Output pane. The results show 18 rows of data. The first 7 rows are visible in the screenshot:

	baggage_check_id [PK] integer	check_result character varying (50)	created_at date	update_at date	booking_id integer	passenger_id integer
1	34	Checked	2023-04-25	2023-04-08	28	57
2	86	Checked	2023-12-25	2023-12-07	312	22
3	104	Checked	2024-03-17	2024-03-14	41	83
4	109	Not checked	2023-08-30	2023-08-09	469	91
5	119	Not checked	2023-12-02	2023-12-01	135	55
6	148	Checked	2024-03-17	2024-03-16	86	5
7	219	Checked	2023-04-17	2023-04-14	233	200

The status bar at the bottom indicates: Total rows: 18, Query complete 00:00:00.083. A green message box states: Successfully run. Total query runtime: 83 msec. 18 rows affected.

15 SELECT \*

FROM baggage\_check

WHERE DATE\_TRUNC('month', update\_at) = DATE\_TRUNC('month',  
created\_at)

AND update\_at < created\_at;