

The screenshot shows a PostgreSQL database interface with the following details:

Database Explorer (Left Panel):

- Selected connection: `postgres@localhost`
- Selected schema: `lab2`
- Tables listed under `lab2`: `airline`, `airport`, `baggage`, `baggage_check`, `boarding_pass`, `booking`, `booking_flight`, `flights`, `passengers`, `security_check`.

Console Tab (Top Right):

- Query ID: 1
- Query: `SELECT * FROM passengers`
- Comment: `--LOWER для нижнего регистра, TRIM для удаления лишних пробелов с обоих сторон`
- Query 4: `WHERE LOWER(TRIM(first_name)) = LOWER(TRIM(last_name));`

Output Tab (Bottom Right):

- Table: `postgres.lab2.passengers`
- Rows:

	passenger_id	first_name	last_name	date_of_birth	gender	country_of_citizens
1	389	TOTЯ	TOTЯ	1990-01-01	Male	USA
2	390	Тайлер	Тайлер	1985-05-12	Female	UK

- Total rows: 2

Services Tab (Bottom Left):

- Transactions: `Tx`
- Connections: `postgres@localhost` (selected), `console_4` (385 ms)

Bottom Status Bar:

- Database Consoles > `postgres@localhost` > `console_4`
- Time: 4:56
- File Encoding: LF
- Character Set: UTF-8
- Spaces: 4 spaces

The screenshot shows a PostgreSQL database interface with the following details:

Database Explorer (Left Panel):

- Selected connection: `postgres@localhost`
- Current schema: `lab2`
- Tables listed under `lab2`: `airline`, `airport`, `baggage`, `baggage_check`, `boarding_pass`, `booking`, `booking_flight`, `flights`, `passengers`, `security_check`.

Console Tab (Top Right):

- Query ID: 1 (green checkmark)
- Query: `SELECT DISTINCT last_name FROM passengers;`
- Status: `postgres.lab2` (green checkmark)

Output Tab (Bottom Right):

- Table name: `postgres.lab2.passengers`
- Column: `last_name`
- Sample Data:

1	Surname_93
2	Surname_17
3	Surname_101
4	Surname_85
5	Surname_2
6	Surname_25
7	Surname_153
8	Surname_61
9	Surname_196
10	Surname_177
11	Surname_107
12	BBB
- Total Rows: 203

Services Tab (Bottom Left):

- Transactions: `Tx`
- Connections: `+ (1)`
- Database: `Database`
- Selected connection: `postgres@localhost`
- Current session: `console_4` (361 ms)

File Explorer (Right Side):

- Lab 2 DB
- Scratches

Bottom Status Bar:

- Database Consoles > `postgres@localhost` > `console_4`
- 3:1 LF UTF-8 4 spaces

Lab 2 DB Version control

Database Explorer

postgres@localhost 1 of 5

postgres 2 of 4

lab2

tables 10

- airline
- airport
- baggage
- baggage_check
- boarding_pass
- booking
- booking_flight
- flights
- passengers
- security_check

File Explorer

Lab 2 DB

Scratches

SELECT *
FROM passengers
WHERE gender = 'male'
--Изменил диапозон дат, так как в таблице пассажиров не было мужчин с датой рождения в заданном диапозоне
AND date_of_birth >= '1980-01-01'
AND date_of_birth < '1990-01-01'

Services

Output postgres.lab2.passengers

	passenger_id	first_name	last_name	date_of_birth	gender	country_of_citiz
1		Name_2	Surname_2	1980-01-03	male	Country_3
2		Name_4	Surname_4	1980-01-05	male	Country_5
3		Name_6	Surname_6	1980-01-07	male	Country_7
4		Name_8	Surname_8	1980-01-09	male	Country_9
5		Name_10	Surname_10	1980-01-11	male	Country_1
6		Name_12	Surname_12	1980-01-13	male	Country_3
7		Name_14	Surname_14	1980-01-15	male	Country_5
8		Name_16	Surname_16	1980-01-17	male	Country_7
9		Name_18	Surname_18	1980-01-19	male	Country_9
10		Name_20	Surname_20	1980-01-21	male	Country_1
11		Name_22	Surname_22	1980-01-23	male	Country_3

Database Consoles > postgres@localhost > console_4

6:33 LF UTF-8 4 spaces

The screenshot shows a PostgreSQL database interface with the following details:

Database Explorer (Left Panel):

- Selected connection: `postgres@localhost`
- Selected schema: `lab2`
- Tables listed under `lab2`: `airline`, `airport`, `baggage`, `baggage_check`, `boarding_pass`, `booking`, `booking_flight`, `flights`, `passengers` (highlighted), and `security_check`.

Console Tab (Top Right):

- Query ID: 1
- Query status: ✓
- Query text:

```
1 ✓ SELECT
2   TO_CHAR(created_at, 'YYYY-MM') AS month, -- Год и месяц (например, 2025-09)
3   SUM(ticket_price) AS total_sales          -- Сумма всех продаж по месяцам
4 FROM booking
5 GROUP BY TO_CHAR(created_at, 'YYYY-MM')      -- Группировка по месяцу
6 ORDER BY month;                             -- Сортировка по месяцу
```

Output Tab (Bottom Right):

- Result ID: 11
- Result status: ✓
- Result columns: `month` and `total_sales`
- Result data:

	month	total_sales
1	2025-09	2323115
- Row count: 1 row

Services Tab (Bottom Left):

- Transactions (Tx):
- Connections (Database): `postgres@localhost`
- Current session: `console_4` (362 ms)

File Explorer (Top Right):

- Selected folder: `Lab 2 DB`
- Sub-folders: `Scratches`

Bottom Status Bar:

- Time: 2:81
- Line separator: LF
- Character encoding: UTF-8
- Spaces: 4 spaces

Lab 2 DB Version control

Database Explorer

postgres@localhost 1 of 5

postgres 2 of 4

lab2

tables 10

- airline
- airport
- baggage
- baggage_check
- boarding_pass
- booking
- booking_flight
- flights
- passengers
- security_check

console_4 × airport flights

Tx: Auto Playground

```
1 ✓ SELECT flights.flight_id, flights.sch_departure_time, flights.sch_arrival_time, airport.airport_name, airport.country
2 FROM flights
3 JOIN airport 1..n<->1: ON flights.arriving_airport_id = airport.airport_id
4 WHERE airport.country = 'Country_3';
```

Files

Lab 2 DB

Scratches

Services

Output Result 13

flight_id sch_departure_time sch_arrival_time airport_name country

	flight_id	sch_departure_time	sch_arrival_time	airport_name	country
1	1	2025-09-23 21:46:32.067402	2025-09-23 23:46:32.067402	Airport_2	Country_3
2	11	2025-09-24 07:46:32.067402	2025-09-24 09:46:32.067402	Airport_12	Country_3
3	21	2025-09-24 17:46:32.067402	2025-09-24 19:46:32.067402	Airport_22	Country_3
4	31	2025-09-25 03:46:32.067402	2025-09-25 05:46:32.067402	Airport_32	Country_3
5	41	2025-09-25 13:46:32.067402	2025-09-25 15:46:32.067402	Airport_42	Country_3
6	51	2025-09-25 23:46:32.067402	2025-09-26 01:46:32.067402	Airport_52	Country_3
7	61	2025-09-26 09:46:32.067402	2025-09-26 11:46:32.067402	Airport_62	Country_3
8	71	2025-09-26 19:46:32.067402	2025-09-26 21:46:32.067402	Airport_72	Country_3
9	81	2025-09-27 05:46:32.067402	2025-09-27 07:46:32.067402	Airport_82	Country_3
10	91	2025-09-27 15:46:32.067402	2025-09-27 17:46:32.067402	Airport_92	Country_3
11	101	2025-09-28 01:46:32.067402	2025-09-28 03:46:32.067402	Airport_102	Country_3

20 rows

Database Consoles > postgres@localhost > console_4

4:37 LF UTF-8 4 spaces

The screenshot shows a PostgreSQL database interface with the following details:

Database Explorer (Left Panel):

- Connected to `postgres@localhost` (1 of 5)
- Selected schema: `lab2`
- Tables listed under `lab2`: `airline`, `airport`, `baggage`, `baggage_check`, `boarding_pass`, `booking`, `booking_flight`, `flights`, `passengers`, `security_check`.

Console 5 (Top Center):

- Query ID: 1 ✓
- Query Text:

```
1 ✓ SELECT *
2   FROM airline
3   WHERE airline_country IN ('France', 'Portugal', 'Poland')
4   --also changed dates to have a results in our request
5   AND created_at >= '2024-11-01 00:00:00'
6   AND created_at < '2026-03-31 00:00:00'
```
- File tab: `airline`
- PostgreSQL tab: `postgres.lab2`

Services (Bottom Left):

- Transactions (Tx): +, ⏪, ⏴, ⏵, ⏳, ⏷
- Database section:
 - Connected to `postgres@localhost`
 - Table `airline` (391 ms)
 - Table `console_5` (390 ms)

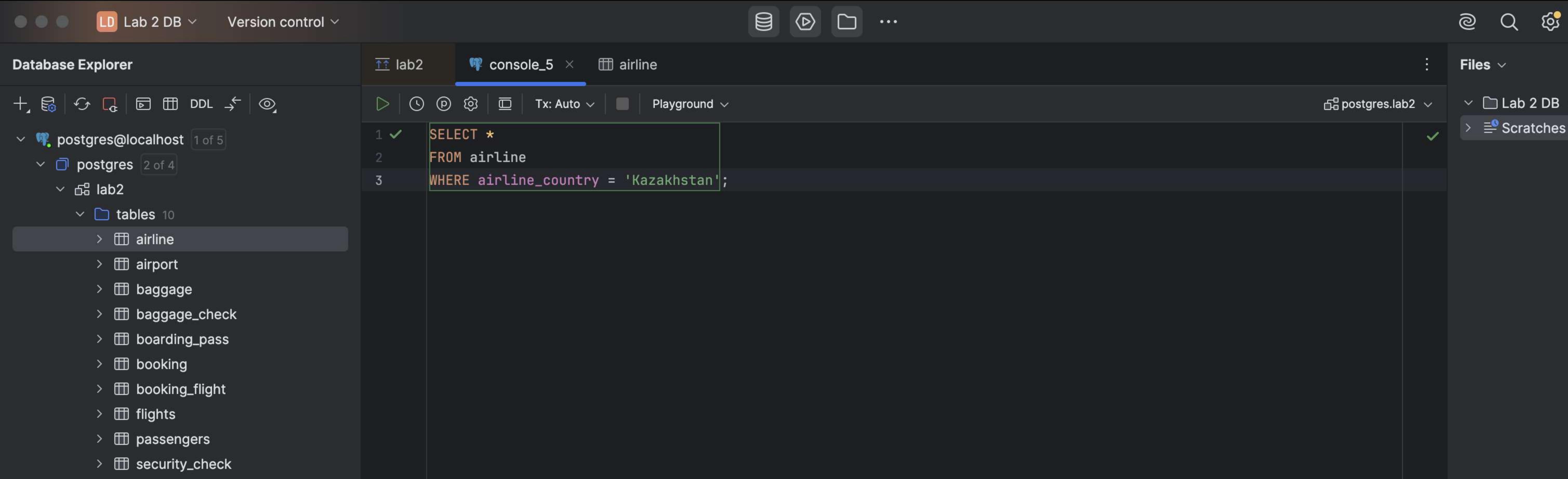
Table Viewer (Bottom Right):

- Table: `postgres.lab2.airline`
- Columns: `airline_id`, `airline_code`, `airline_name`, `airline_country`, `created_at`, `updated_at`
- Data:

	airline_id	airline_code	airline_name	airline_country	created_at	updated_at
1	202	AE	AirEasy	France	2025-09-23 20:55:57.947797	2025-09-23 20:55:57.947797
2	204	FF	FlyFly	Poland	2025-09-23 20:55:57.947797	2025-09-23 20:55:57.947797

Bottom Status Bar:

- Database Consoles > `postgres@localhost` > `console_5`
- Time: 6:39
- Line separator: LF
- Character encoding: UTF-8
- Spaces: 4 spaces



The screenshot shows a PostgreSQL database interface with the following details:

- Top Bar:** Shows "Lab 2 DB" and "Version control".
- Database Explorer:** Shows the connection "postgres@localhost" and the schema "lab2". The "airline" table is selected.
- Console:** The "console_5" tab is active, showing the following SQL query:

```
1 ✓ UPDATE booking
2 SET ticket_price = round(ticket_price*0.90, 2),
3 updated_at = NOW()
4 WHERE created_at < TIMESTAMP'11-01-2023';|
```
- Services:** Shows the transaction log with the following entries:
 - [2025-10-14 00:25:18] postgres.lab2> UPDATE booking
SET ticket_price = round(ticket_price*0.90, 2),
updated_at = NOW()
WHERE created_at < TIMESTAMP'11-01-2023'
 - [2025-10-14 00:25:18] completed in 6 ms
- Bottom Status:** Shows "Database Consoles > postgres@localhost > console_5" and system status "4:42 LF UTF-8 4 spaces".

The screenshot shows a PostgreSQL database interface with the following details:

Database Explorer (Left Panel):

- Connected to `postgres@localhost` (1 of 5)
- Selected database: `lab2`
- Tables listed under `lab2`:
 - `airline`
 - `airport`
 - `baggage`
 - `baggage_check`
 - `boarding_pass`
 - `booking`
 - `booking_flight`
 - `flights`
 - `passengers`
 - `security_check`

Services (Bottom Left Panel):

- Transactions (Tx) icon
- Database icon
- Connected to `postgres@localhost`
- Console tab: `console_5` (361 ms)

Console Tab (Top Right):

- Tab title: `lab2`
- Query ID: `console_5`
- Query text:

```
1 ✓ SELECT booking_id, ticket_price, created_at
2 FROM booking
3 WHERE created_at < '2023-11-01';
4 -- В моих таблицах нет данных
```
- Result status: `postgres.lab2` (green checkmark)

Output Tab (Bottom Right):

- Tab title: `Output`
- Table name: `postgres.lab2.booking`
- Table columns: `booking_id`, `ticket_price`, `created_at`
- Row count: `0 rows`

Bottom Status Bar:

- Database Consoles > `postgres@localhost` > `console_5`
- Time: 4:29
- File Type: LF
- Encoding: UTF-8
- Spaces: 4 spaces

Lab 2 DB Version control

Database Explorer

postgres@localhost 1 of 5

postgres 2 of 4

lab2

tables 10

- > airline
- > airport
- > baggage
- > baggage_check
- > boarding_pass
- > booking
- > booking_flight
- > flights
- > passengers
- > security_check

console_5 ×

airline

Tx: Auto Playground

```
1 ✓ SELECT baggage_id, weight_in_kg
2 FROM baggage
3 WHERE weight_in_kg > 25
4 LIMIT 3;
```

postgres.lab2

Lab 2 DB Scratches

Services

Tx

Database

postgres@localhost

airline 391 ms

console_5 390 ms

Output postgres.lab2.baggage

Tx: Auto DDL

CSV

	baggage_id	weight_in_kg
1	16	26.00
2	17	27.00
3	18	28.00

3 rows

Database Consoles > postgres@localhost > console_5

3:24 LF UTF-8 4 spaces

The screenshot shows a PostgreSQL database interface with the following details:

Database Explorer (Left Panel):

- Connected to `postgres@localhost` (1 of 5)
- Selected schema: `lab2`
- Tables listed under `lab2`: `airline`, `airport`, `baggage`, `baggage_check`, `boarding_pass`, `booking`, `booking_flight`, `flights`, `passengers`, `security_check`.

Console Tab (Top Right):

- Query ID: 1 ✓
- Query:

```
SELECT first_name, last_name, date_of_birth
FROM passengers
WHERE date_of_birth = (SELECT MAX(date_of_birth) FROM passengers)
```
- Status: 1 row (indicated by a green checkmark)

Output Tab (Bottom Right):

- Table: `postgres.lab2.passengers`
- Columns: `first_name`, `last_name`, `date_of_birth`
- Data:

	first_name	last_name	date_of_birth
1	AAA	BBB	2001-01-01

- Row count: 1 row

Services Tab (Bottom Left):

- Transactions (Tx):
- Connected to `postgres@localhost`
- Current session: `console_5` (361 ms)

Bottom Status Bar:

- File status: 4:1 LF UTF-8 4 spaces
- Icons: Save, Undo, Redo, Find, Settings

The screenshot shows a PostgreSQL database interface with the following details:

Database Explorer (Left Panel):

- Connected to `postgres@localhost` (1 of 5)
- Selected schema: `lab2`
- Tables listed under `lab2`: `airline`, `airport`, `baggage`, `baggage_check`, `boarding_pass`, `booking`, `booking_flight`, `flights`, `passengers`, `security_check`.

Console Tab (Top Right):

- Query ID: 1 ✓
- Query: `SELECT booking_platform, MIN(ticket_price) AS cheapest_price FROM booking GROUP BY booking_platform;`
- Status: Tx: Auto, Playground
- Result icon: Green checkmark

Services Tab (Bottom Left):

- Transactions (Tx): +, ⏪, ⏴, ⏵, ⏷, ⏹
- Connected to `postgres@localhost`
- Current session: `console_5` (373 ms)

Output Tab (Bottom Right):

- Result set: `Result 11`
- Columns: `booking_platform` and `cheapest_price`
- Data:

	booking_platform	cheapest_price
1	platform_3	11502.3
2	platform_2	11501.15
3	platform_1	11503.45

- Total rows: 3 rows

Bottom Status Bar:

- Database Consoles > `postgres@localhost` > `console_5`
- Time: 3:27
- File Type: LF
- Encoding: UTF-8
- Spaces: 4 spaces

Lab 2 DB Version control

Database Explorer

postgres@localhost 1 of 5

postgres 2 of 4

lab2

tables 10

airline

airport

baggage

baggage_check

boarding_pass

booking

booking_flight

flights

passengers

security_check

console_5

SELECT airline_id, airline_name, airline_code
FROM airline
WHERE airline_code ~ '[0-9]';

postres.lab2

Lab 2 DB

Scratches

Services

Output postgres.lab2.airline

airline_id airline_name airline_code

	airline_id	airline_name	airline_code
1		1 Airline_1	AL1
2		2 Airline_2	AL2
3		3 Airline_3	AL3
4		4 Airline_4	AL4
5		5 Airline_5	AL5
6		6 Airline_6	AL6
7		7 Airline_7	AL7
8		8 Airline_8	AL8
9		9 Airline_9	AL9
10		10 Airline_10	AL10
11		11 Airline_11	AL11
12		12 Airline_12	AL12

204 rows

Database Consoles > postgres@localhost > console_5

3:30 LF UTF-8 4 spaces

The screenshot shows a PostgreSQL database interface with the following details:

Database Explorer (Left Panel):

- Connected to `postgres@localhost` (1 of 5)
- Selected database: `lab2`
- Tables listed under `airline`, `airport`, `baggage`, `baggage_check`, `boarding_pass`, `booking`, `booking_flight`, `flights`, `passengers`, and `security_check`.

Console Tab (Top Right):

- Query ID: 1 ✓
- Query: `SELECT airline_id, airline_name, created_at FROM airline ORDER BY created_at DESC LIMIT 5;`
- Status: Success (green checkmark)

Output Tab (Bottom Right):

- Table: `postgres.lab2.airline`
- Columns: `airline_id`, `airline_name`, `created_at`
- Data:

	airline_id	airline_name	created_at
1	3001	KazAir3	2025-10-13 19:20:15.593940
2	4001	KazAir4	2025-10-13 19:20:15.593940
3	1001	KazAir1	2025-10-13 19:20:15.593940
4	2001	KazAir2	2025-10-13 19:20:15.593940
5	204	FlyFly	2025-09-23 20:55:57.947797

- Total rows: 5 rows

Services Tab (Bottom Left):

- Transactions (Tx): +, ⏪, ⏴, ⏵, ⏷, ⏸
- Connected to `postgres@localhost`
- Current session: `console_5` (353 ms)

Bottom Status Bar:

- Database Consoles > `postgres@localhost` > `console_5`
- File Encoding: LF
- Character Set: UTF-8
- Spaces: 4 spaces

The screenshot shows a PostgreSQL database interface with the following details:

Database Explorer (Left Panel):

- Selected connection: `postgres@localhost`
- Selected schema: `lab2`
- Tables listed under `lab2`: `airline`, `airport`, `baggage`, `baggage_check`, `boarding_pass`, `booking`, `booking_flight`, `flights`, `passengers`, `security_check`.

Console Tab (Top Right):

- Query ID: 1 (green checkmark)
- Query text:

```
1 ✓ SELECT *
2   FROM baggage_check
3   WHERE booking_id BETWEEN 200 AND 300
4     AND check_result <> 'Checked';
```

Output Tab (Bottom Right):

- Table name: `postgres.lab2.baggage_check`
- Table structure (columns): `baggage_check_id`, `check_result`, `created_at`, `updated_at`, `booking_id`.
- Single row returned:

baggage_check_id	check_result	created_at	updated_at	booking_id
1	200 OK	2025-09-23 20:46:32.130526	2025-09-23 20:46:32.130526	200
- Row count: 1 row

Services Tab (Bottom Left):

- Transactions (Tx): +, ⊕, ⊖, X
- Database list: `Database`, `postgres@localhost`, `console_5` (selected, 354 ms).

System Status (Bottom Right):

- Time: 4:33
- File Type: LF
- Encoding: UTF-8
- Spaces: 4 spaces

The screenshot shows a PostgreSQL database interface with the following details:

Database Explorer (Left Panel):

- Selected connection: `postgres@localhost`
- Selected schema: `lab2`
- Tables listed under `lab2`: `airline`, `airport`, `baggage`, `baggage_check`, `boarding_pass`, `booking`, `booking_flight`, `flights`, `passengers`, `security_check`.

Console 5 (Top Right):

- Query ID: 1 (green checkmark)
- Query text:

```
1 ✓ SELECT *
2   FROM baggage_check
3   WHERE date_trunc('month', created_at) = date_trunc('month', updated_at)
4     AND updated_at < created_at;
```
- Session status: Tx: Auto
- Playground tab selected
- PostgreSQL version: `postgres.lab2`

Services (Bottom Left):

- Transactions (Tx): +, ⊕, ⊖, ⊖, X
- Database section:
 - Selected connection: `postgres@localhost`
 - Selected session: `console_5` (341 ms)

Output (Bottom Right):

- Table header for `postgres.lab2.baggage_check`:

baggage_check_id	check_result	created_at	updated_at	booking_id
------------------	--------------	------------	------------	------------
- Message: `0 rows`

Bottom Status Bar:

- Database Consoles > `postgres@localhost` > `console_5`
- Time: 4:31
- File Type: LF
- Encoding: UTF-8
- Spaces: 4 spaces