

Lab work 2Version control

Database Explorer

Lab_db@localhost

- baggage_check
- boarding_pass
- booking
 - columns
 - booking_id integer
 - flight_id integer
 - passenger_id integer
 - booking_platform varchar(50)
 - created_at timestamp
 - updated_at timestamp
 - status varchar(50)
 - ticket_price numeric(7,2)
 - keys

console_1

Tx: AutoPlayground

Lab_db.public

1SELECT booking_platform, MIN(ticket_price) AS cheapest_price

2FROM booking

3GROUP BY booking_platform;

4

Services

Tx

Database

- Lab_db@localhost
 - console_1 945 ms

OutputResult 13

CSVDownloadCopyPasteFindFilterColumns

booking_platform	cheapest_price
MobileApp	70982.68
Agent	71595.65
Website	73700.04

3 rows

3 rows retrieved starting from 1 in 358 ms (execution: 18 ms, fetching: 340 ms)1:9 LF UTF-8 4 spaces

Lab work 2 Version control

Database Explorer

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 - status varchar(50)
 - ticket_price numeric(7,2)
 - keys 1

Services

TX: Auto Playground

console_1

```
1 SELECT *
2 FROM airline
3 WHERE airline_code ~ '[0-9]';
4
```

Data Source: Lab_db@localhost
Database: Lab_db
Schema: public
Table: airline
Column: airline_code

```
alter table airline
add airline_code varchar(30) not null;
```

Output Lab_db.p

airline_id	airline_code	airline_name	airline_country	created_at
1	AL1	Airline_1	Turkey	2025-09-23 15:03:14.79
2	AL2	Airline_2	Poland	2025-09-23 15:03:14.79
3	AL3	Airline_3	Japan	2025-09-23 15:03:14.79
4	AL4	Airline_4	France	2025-09-23 15:03:14.79
5	AL5	Airline_5	Germany	2025-09-23 15:03:14.79
6	AL6	Airline_6	France	2025-09-23 15:03:14.79
7	AL7	Airline_7	Japan	2025-09-23 15:03:14.79
8	AL8	Airline_8	UK	2025-09-23 15:03:14.79
9	AL9	Airline_9	China	2025-09-23 15:03:14.79
10	AL10	Airline_10	France	2025-09-23 15:03:14.79
11	23 23	KazAir	Turkey	2025-09-23 15:12:27.87
12	24 24	AirEn...	France	2025-09-23 15:18:17.72
13	25 25	FlyH...	Brazil	2025-09-23 15:18:17.72

14 rows

14 rows retrieved starting from 1 in 364 ms (execution: 9 ms, fetching: 355 ms)

2:13 LF UTF-8 4 spaces

Lab work 2Version control

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 - created_at timestamp
 - updated_at timestamp
 - status varchar(50)
 - ticket_price numeric(7,2)
 - keys

console_1

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

Services

Database

- Lab_db@localhost
 - console_1 359 ms

OutputLab_db.public.airline

	airline_id	airline_code	airline_name	airline_country	created_at
1	24	24	AirEasy	France	2025-09-23 15:18:17.721
2	26	26	FlyFly	Poland	2025-09-23 15:18:17.721
3	25	25	FlyHigh	Brazil	2025-09-23 15:18:17.721
4	23	23	KazAir	Turkey	2025-09-23 15:12:27.874
5	3	AL3	Airline_3	Japan	2025-09-23 15:03:14.795

5 rows

5 rows retrieved starting from 1 in 337 ms (execution: 7 ms, fetching: 330 ms)2:13 LF UTF-8 4 spaces

Lab work 2Version control

Database Explorer

Lab_db@localhost

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 - booking_platform varchar(50)
 - created_at timestamp
 - updated_at timestamp
 - status varchar(50)
 - ticket_price numeric(7,2)
 - keys 1

console_1

Tx: AutoPlayground

Lab_db.public

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

Services

Tx: + - < > < >

Database

- Lab_db@localhost
 - console_1 360 ms

OutputLab_db.public.booking

Tx: AutoDDL

CSV

booking_idflight_idpassenger_idbooking_platformcreated_at

1	200	150	179 Agent	2025-09-23 15:25:56.24461
---	-----	-----	-----------	---------------------------

1 row

1 row retrieved starting from 1 in 340 ms (execution: 7 ms, fetching: 333 ms)4:14 LF UTF-8 4 spaces

Lab work 2 Version control

Database Explorer

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 - created_at timestamp
 - updated_at timestamp
 - status varchar(50)
 - ticket_price numeric(7,2)
 - keys 1

console_1

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

Services

Database

- Lab_db@localhost
 - console_1 348 ms

Output Lab_db.public.baggage_check

baggage_check_id	check_result	created_at	updated_at	booking_id	pr
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0 rows

0 rows retrieved in 328 ms (execution: 6 ms, fetching: 322 ms)

2:19 LF UTF-8 4 spaces

Lab work 2Version control

console_1

Lab_db.public

Lab work 2 ~/DataGripProjects/Lab work 2
Scratches and Consoles

1 SELECT *
2 FROM passengers
3 WHERE first_name = last_name;
4

Services

Database

Lab_db@localhost
console_1 1 s 239 ms

Output

Lab_db.public.passengers

passenger_id : first_name : last_name : date_of_birth : gender : country_of

0 rows

0 rows retrieved in 497 ms (execution: 17 ms, fetching: 480 ms)2:12 LF UTF-8 4 spaces

Lab work 2 ▾ Version control ▾

console_1

1 ✓ SELECT DISTINCT last_name

2 FROM passengers;

3

Lab_db.public ▾

Files ▾

Lab work 2 ~/DataGripProjects/Lab work 2

Scratches and Consoles

Services

Database ▾

Lab_db@localhost ▾

console_1 404 ms

Output Lab_db.public.passengers ▾

last_name ▾

1	Surname_93
2	Surname_17
3	Surname_181
4	Surname_85
5	Surname_2
6	Surname_25
7	Surname_153
8	Surname_61
9	Surname_196
10	Surname_177
11	Surname_187
12	Surname_180
13	Surname_114

200 rows ▾

200 rows retrieved starting from 1 in 376 ms (execution: 7 ms, fetching: 369 ms)1:6 LF UTF-8 4 spaces

Lab work 2Version control

console_1

Lab_db.public

Lab work 2 ~/DataGripProjects/Lab work 2Scratches and Consoles

SELECT *
FROM passengers
WHERE gender = 'Male'
AND date_of_birth BETWEEN '1998-01-01' AND '2000-12-31';

Services

Database
Lab_db@localhost
console_1 412 ms

OutputLab_db.public.passengers

passenger_idfirst_namelast_namedate_of_birthgendercountry

19 Name_9Surname_92000-06-16MaleUSA

12 Name_12Surname_121999-02-15MaleFrance

21 Name_21Surname_211999-08-22MaleKazakhstan

25 Name_25Surname_251992-11-02MaleGermany

35 Name_35Surname_351991-05-14MaleRussia

38 Name_38Surname_381996-06-14MaleGermany

41 Name_41Surname_411991-12-07MaleUSA

57 Name_57Surname_571994-12-27MaleFrance

58 Name_58Surname_581996-07-02MaleGermany

61 Name_61Surname_611998-05-06MaleTurkey

63 Name_63Surname_631997-07-06MaleTurkey

79 Name_79Surname_791993-11-27MaleUSA

86 Name_86Surname_861995-01-13MaleKazakhstan

23 rows retrieved starting from 1 in 379 ms (execution: 9 ms, fetching: 370 ms)

4:20LFUTF-84 spaces

Lab work 2Version control

console_1

Lab_db.public

Lab work 2 ~/DataGripProjects/Lab work 2Scratches and Consoles

SELECT DATE_TRUNC('month', created_at) AS month, SUM(ticket_price) AS total_price

FROM booking

GROUP BY DATE_TRUNC('month', created_at)

ORDER BY month;

Services

Database

Lab_db@localhost

console_1 349 ms

OutputResult 5

monthtotal_price

12025-09-01 00:00:00.0000007911090.56

1 row

1 row retrieved starting from 1 in 335 ms (execution: 8 ms, fetching: 327 ms)

1:66 LF UTF-8 4 spaces

Lab work 2Version control

Database Explorer

Lab_db@localhost

flights

columns 12

flight_id integer

sch_departure_time timestamp

sch_arrival_time timestamp

departing_airport_id integer

arriving_airport_id integer

departing_gate text

arriving_gate varchar(50)

airline_id integer

act_departure_time timestamp

act_arrival_time timestamp

created_at timestamp

console_1

Tx: AutoPlayground

Lab_db.public

1 ✓

2

3

4

5

SELECT *

FROM flights

WHERE arriving_gate = 'China';

Services

Tx

Database

Lab_db@localhost

console_1 357 ms

Output

Lab_db.public.flights

CSV

flight_id : sch_departure_time : sch_arrival_time : departing_airport_id : arriving

0 rows

Lab_db@localhost: Synchronization successful (1 sec, 92 ms) (2 minutes ago)

3:20 LF UTF-8 4 spaces

Lab work 2Version control

Database Explorer

Lab_db@localhost1 of 8

Lab_db1 of 3

public

tables10

airline

columns6

airline_idinteger

airline_codevarchar(30)

airline_namevarchar(50)

airline_countryvarchar(50)

created_attimestamp

updated_attimestamp

keys1

indexes1

console_1

Tx: AutoPlayground

Lab_db.public

1SELECT *

2FROM airline

3WHERE airline_country IN ('France','Portugal','Poland')

4AND created_at BETWEEN '2023-11-01' AND '2024-03-31';

5

Services

Tx

Database

Lab_db@localhost

console_1346 ms

OutputLab_db.public.airline

airline_idairline_codeairline_nameairline_countrycreated_at

0 rows

0 rows retrieved in 328 ms (execution: 6 ms, fetching: 322 ms)3:22 LF UTF-8 4 spaces

Lab work 2Version control

Database Explorer

Lab_db@localhost1 of 8

Lab_db1 of 3

public

tables10

airline

columns6

airline_idinteger

airline_codevarchar(30)

airline_namevarchar(50)

airline_countryvarchar(50)

created_attimestamp

updated_attimestamp

keys1

indexes1

console_1

Tx: AutoPlayground

Lab_db.public

1✓SELECT airline_name

2FROM airline

3WHERE airline_country = 'Kazakhstan';

4

Services

Tx+

Database

Lab_db@localhost

console_1341 ms

OutputLab_db.public.airline

airline_name

0 rows

0 rows retrieved in 325 ms (execution: 6 ms, fetching: 319 ms)3:22 LF UTF-8 4 spaces

Lab work 2Version control

Database Explorer

Lab_db@localhost

Lab_db@localhost

booking

columns 8

booking_id integer

flight_id integer

passenger_id integer

booking_platform varchar(50)

created_at timestamp

updated_at timestamp

status varchar(50)

ticket_price numeric(7,2)

keys 1

foreign keys 1

console_1

UPDATE booking

SET ticket_price = ticket_price * 8.9

WHERE created_at < '2023-11-01';

Services

Database

Lab_db@localhost

console_1 20 ms

Output

Lab_db.public.airline

airline_name

0 rows

completed in 6 ms2:8 LF UTF-8 4 spaces

Lab work 2Version control

Database Explorer

Lab_db@localhost

- Indexes 1
- airport
- baggage
 - columns 5
 - baggage_id integer
 - weight_in_kg numeric(4,2)
 - created_at timestamp
 - updated_at timestamp
 - booking_id integer
 - keys 1
 - foreign keys 1
 - Indexes 1
 - baggage_check

console_1

Tx: AutoPlayground

Lab_db.public

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

Services

Database

- Lab_db@localhost
 - console_1 344 ms

OutputLab_db.public.baggage

CSVDownloadCopy

Tx: AutoDDLSearch

baggage_idweight_in_kgcreated_atupdated_atbooking_id

0 rows

0 rows retrieved in 328 ms (execution: 6 ms, fetching: 322 ms)3:10 LF UTF-8 4 spaces

Lab work 2Version control

Database Explorer

Lab_db@localhost

- Indexes 1
- airport
- baggage
 - columns 5
 - baggage_id integer
 - weight_in_kg numeric(4,2)
 - created_at timestamp
 - updated_at timestamp
 - booking_id integer
 - keys 1
 - foreign keys 1
 - Indexes 1
 - baggage_check

console_1

Tx: AutoPlayground

Lab_db.public

1SELECT first_name, last_name

2FROM passengers

3ORDER BY date_of_birth DESC

4LIMIT 1;

5

6

Services

Database

Lab_db@localhost

- console_1 343 ms

OutputLab_db.public.passengers

first_name : last_name

1 Name_161Surname_161

1 row

1 row retrieved starting from 1 in 328 ms (execution: 4 ms, fetching: 324 ms)3:23 LF UTF-8 4 spaces