

firstprVersion control

Database Explorer

postgres@localhost [2]

created\_at timestamp

updated\_at timestamp

status varchar(50)

ticket\_price numeric(7,2)

ticket\_discount integer

keys 2

foreign keys 1

indexes 3

checks 2

check\_price ticket\_price >= 0

lab7lab8lab9 xbookingconsole\_9console\_6console\_5

Tx ManualPlayground

lab2.public

4 delete from booking where booking\_id = '52';

5 savepoint boo\_savepoint;

6 delete from booking where booking\_id = '5819';

7 rollback to boo\_savepoint;

8 commit;

9

10 begin;

11 delete from booking where booking\_id = 52;

12 commit;

13

[3B001] ОШИБКА: точка сохранения "boo\_savepoint" не существует

StopRetryIgnoreIgnore All

Services

Outputlab2.public.booking

postgreslab2.public> begin

book[2024-11-27 18:54:26] [25001] транзакция уже выполняется

b[2024-11-27 18:54:26] completed in 4 ms

lab7lab2.public> delete from booking where booking\_id = '52'

lab[2024-11-27 18:54:26] completed in 3 ms

lab9lab2.public> savepoint boo\_savepoint

lab[2024-11-27 18:54:26] completed in 2 ms

conslab2.public> delete from booking where booking\_id = '5819'

cons[2024-11-27 18:54:27] completed in 2 ms

conslab2.public> rollback to boo\_savepoint

lab[2024-11-27 18:54:27] [3B001] ОШИБКА: точка сохранения "boo\_savepoint" не существует

lab8lab[2024-11-27 18:54:29] transaction rolled back: @lab9

cons

Database Consoles > postgres@localhost [2] > lab9

7:25 (157 chars, 6 line breaks) CRLF UTF-8 4 spaces

Activate Windows  
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18:54  
27.11.2024

Database Explorer

postgres@localhost [2]

- created\_at timestamp
- updated\_at timestamp
- status varchar(50)
- ticket\_price numeric(7,2)
- ticket\_discount integer

Keys 2

Foreign keys 1

Indexes 3

Checks 2

check\_price (ticket\_price >= 0)

lab7 lab8 lab9 booking console\_9 console\_6 console\_5

lab2.public

```
19 update flights set sch_departure_time = '2025-11-25 15:30:00' where flight_id = 58;
20 savepoint flig_savepoint;
21 update flights set sch_departure_time = '2024-11-09 17:00:00' where flight_id = '8000';
22 rollback to flig_savepoint;
23 commit;
24
25 select * from flights where flight_id = 58;
26
27 update flights set sch_departure_time = '2024-11-25 15:30:00' where flight_id = 58;
28
```

[3B001] ОШИБКА: точка сохранения "flig\_savepoint" не существует

Stop Retry Ignore Ignore All

Services

lab2.public.booking

lab2.public> begin

[2024-11-27 18:54:46] [25001] транзакция уже выполняется

[2024-11-27 18:54:46] completed in 4 ms

lab2.public> update flights set sch\_departure\_time = '2025-11-25 15:30:00' where flight\_id = 58

[2024-11-27 18:54:47] 1 row affected in 8 ms

lab2.public> savepoint flig\_savepoint

[2024-11-27 18:54:47] completed in 2 ms

lab2.public> update flights set sch\_departure\_time = '2024-11-09 17:00:00' where flight\_id = '8000'

[2024-11-27 18:54:47] completed in 3 ms

lab2.public> rollback to flig\_savepoint

[2024-11-27 18:54:47] [3B001] ОШИБКА: точка сохранения "flig\_savepoint" не существует

lab2.public> transaction rolled back: @lab9

Activate Windows

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Database Consoles > postgres@localhost [2] > lab9

22:27 (240 chars, 5 line breaks) CRLF UTF-8 4 spaces

18:54 27.11.2024

Database Explorer

postgres@localhost [2]

- created\_at timestamp
- updated\_at timestamp
- status varchar(50)
- ticket\_price numeric(7,2)
- ticket\_discount integer
- keys 2
- foreign keys 1
- indexes 3
- checks 2

check\_price: ticket\_price >= 0

lab7 lab8 lab9 booking console\_9 console\_6 console\_5

Tx: Manual Playground

```
46 commit;
47
48 begin;
49 update booking set ticket_price = ticket_price * 0.9 where booking_id = 60;
50 savepoint save_book_Tick;
51 update booking set ticket_price = ticket_price / 0 where booking_id = 60;
52 rollback to save_book_Tick;
53 commit;
54
55 select * from booking where booking_id = 60;
```

[22012] ОШИБКА: деление на ноль

Stop Retry Ignore Ignore All

Services

Output lab2.public.booking

postgres [2024-11-27 18:54:47] [38001] ОШИБКА: точка сохранения "flig\_savepoint" не существует

lab2.public> begin

lab7 [2024-11-27 18:55:59] [25001] транзакция уже выполняется

lab8 [2024-11-27 18:55:59] completed in 2 ms

lab9 lab2.public> update booking set ticket\_price = ticket\_price \* 0.9 where booking\_id = 60

[2024-11-27 18:55:59] 1 row affected in 7 ms

lab2.public> savepoint save\_book\_Tick

[2024-11-27 18:55:59] completed in 1 ms

lab2.public> update booking set ticket\_price = ticket\_price / 0 where booking\_id = 60

[2024-11-27 18:55:59] [22012] ОШИБКА: деление на ноль

lab8 [2024-11-27 18:56:01] transaction rolled back: @lab9

Activate Windows  
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Database Consoles > postgres@localhost [2] > lab9

51:73 (218 chars, 5 line breaks) CRLF UTF-8 4 spaces

18:56 27.11.2024

Database Explorer

postgres@localhost [2]

- created\_at timestamp
- updated\_at timestamp
- status varchar(50)
- ticket\_price numeric(7,2)
- ticket\_discount integer
- keys 2
- foreign keys 1
- indexes 3
- checks 2
  - check\_price (ticket\_price >= 0)

lab7 lab8 lab9 booking console\_9 console\_6 console\_5

Tx: Manual Playground

lab2.public

```
58 INSERT INTO Booking (booking_id, flight_id, passenger_id, booking_platform, created_at, updated_at, status, ticket_price) VAL
59 --4
60 INSERT INTO Flights (flight_id, sch_departure_time, sch_arrival_time, departing_airport_id, arriving_airport_id, departing_gate, arriving
61 INSERT INTO Booking (booking_id, flight_id, passenger_id, booking_platform, created_at, updated_at, status, ticket_price) VALUES ( booking_i
62
63 begin ;
64 update flights set flight_id = 1565 where flight_id = 156;
65 update booking set flight_id = 1565 where booking_id = 322;
66 commit;
67
68 select * from booking where booking_id = 322;
69
```

Services

Output lab2.public.booking

postgres [2024-11-27 18:55:59] [22012] ОШИБКА: деление на ноль
book [2024-11-27 18:56:01] transaction rolled back: @lab9
lab2.public> begin
lab7 [2024-11-27 18:56:14] [25001] транзакция уже выполняется
lab [2024-11-27 18:56:14] completed in 4 ms
lab9 lab2.public> update flights set flight\_id = 1565 where flight\_id = 156
lab [2024-11-27 18:56:14] completed in 2 ms
lab2.public> update booking set flight\_id = 1565 where booking\_id = 322
cons [2024-11-27 18:56:14] 1 row affected in 6 ms
cons lab2.public> commit
ci [2024-11-27 18:56:14] completed in 1 ms
lab8 [2024-11-27 18:56:18] transaction committed: @lab9
lab
cons

Database Consoles > postgres@localhost [2] > lab9

63.1 (134 chars, 3 line breaks) CRLF UTF-8 4 spaces

Activate Windows  
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18:56  
27.11.2024

Database Explorer

postgres@localhost [2]

- created\_at timestamp
- updated\_at timestamp
- status varchar(50)
- ticket\_price numeric(7,2)
- ticket\_discount integer
- Keys 2
- foreign keys 1
- Indexes 3
- checks 2
  - check\_price (ticket\_price >= 0)

lab7 lab8 lab9 booking console\_9 console\_6 console\_5

lab2.public

```
72 INSERT INTO Passengers(PASSENGER_ID, FIRST_NAME, LAST_NAME, DATE_OF_BIRTH, GENDER, COUNTRY_OF_CITIZENSHIP, COUNTRY_OF_RESIDENCE, PASSPORT_NUMBER, CREATED_AT, UPDATED_AT) VALUES (200, 'John', 'Doe', '1990-01-01', 'M', 'USA', 'Canada', '123456789', NOW(), NOW());
73 INSERT INTO Booking (booking_id, flight_id, passenger_id, booking_platform, created_at, updated_at, status, ticket_price) VALUES (200, 150, 200, 'Website', NOW(), NOW(), 'Confirmed', 200);
74 INSERT INTO Flights (flight_id, sch_departure_time, sch_arrival_time, departing_airport_id, arriving_airport_id, departing_gate, arriving_gate, airline_id, aircraft_id) VALUES (150, '2024-11-27 18:00:00', '2024-11-27 19:00:00', 'JFK', 'LAX', 'A1', 'B1', 'AA', 'A320XLR');
75
76 begin;
77 INSERT INTO Passengers(PASSENGER_ID, FIRST_NAME, LAST_NAME, DATE_OF_BIRTH, GENDER, COUNTRY_OF_CITIZENSHIP, COUNTRY_OF_RESIDENCE, PASSPORT_NUMBER, CREATED_AT, UPDATED_AT) VALUES (201, 'Jane', 'Smith', '1992-03-15', 'F', 'UK', 'Australia', '987654321', NOW(), NOW());
78 INSERT INTO Booking (booking_id, flight_id, passenger_id, booking_platform, created_at, updated_at, status, ticket_price) VALUES (201, 150, 201, 'Website', NOW(), NOW(), 'Confirmed', 200);
79 INSERT INTO Flights (flight_id, sch_departure_time, sch_arrival_time, departing_airport_id, arriving_airport_id, departing_gate, arriving_gate, airline_id, aircraft_id) VALUES (150, '2024-11-27 18:00:00', '2024-11-27 19:00:00', 'JFK', 'LAX', 'A1', 'B1', 'AA', 'A320XLR');
80 commit;
81 select * from passengers where passenger_id = 200;
82 select * from booking where passenger_id = 200;
83 select * from flights where flight_id = 150;
```

Services

lab2.public.booking

postgres lab2.public> begin

lab2.public> INSERT INTO Passengers(PASSENGER\_ID, FIRST\_NAME, LAST\_NAME, DATE\_OF\_BIRTH, GENDER, COUNTRY\_OF\_CITIZENSHIP, COUNTRY\_OF\_RESIDENCE, PASSPORT\_NUMBER, CREATED\_AT, UPDATED\_AT) VALUES (200, 'John', 'Doe', '1990-01-01', 'M', 'USA', 'Canada', '123456789', NOW(), NOW());

lab2.public> INSERT INTO Booking (booking\_id, flight\_id, passenger\_id, booking\_platform, created\_at, updated\_at, status, ticket\_price) VALUES (200, 150, 200, 'Website', NOW(), NOW(), 'Confirmed', 200);

lab2.public> INSERT INTO Flights (flight\_id, sch\_departure\_time, sch\_arrival\_time, departing\_airport\_id, arriving\_airport\_id, departing\_gate, arriving\_gate, airline\_id, aircraft\_id) VALUES (150, '2024-11-27 18:00:00', '2024-11-27 19:00:00', 'JFK', 'LAX', 'A1', 'B1', 'AA', 'A320XLR');

lab2.public> commit

lab2.public> [2024-11-27 18:57:52] transaction committed: @lab9

Database Consoles > postgres@localhost [2] > lab9

76:1 (949 chars, 4 line breaks) CRLF UTF-8 4 spaces

18:57 27.11.2024



Database Explorer

postgres@localhost [2]

- created\_at timestamp
- updated\_at timestamp
- status varchar(50)
- ticket\_price numeric(7,2)
- ticket\_discount integer
- keys 2
- foreign keys 1
- indexes 3
- checks 2
- check\_price = ticket\_price \* 0.6

lab7 lab8 lab9 booking console\_9 console\_6 console\_5

lab2.public

- begin ;
- update booking set ticket\_price = ticket\_price + 20 where flight\_id = 21;
- commit;
- select \* from booking where flight\_id = 21;
- 7
- begin;
- update baggage set weight\_in\_kg = weight\_in\_kg - 1 where booking\_id = 13;

Services

Output lab2.public.booking

- postgres [2024-11-27 18:57:47] 1 row affected in 5 ms
- lab2.public> commit
- [2024-11-27 18:57:47] completed in 2 ms
- lab7 [2024-11-27 18:57:52] transaction committed: @lab9
- lab2.public> begin
- lab9 [2024-11-27 18:58:07] [25001] транзакция уже выполняется
- [2024-11-27 18:58:07] completed in 8 ms
- lab2.public> update booking set ticket\_price = ticket\_price + 20 where flight\_id = 21
- [2024-11-27 18:58:07] 2 rows affected in 2 ms
- lab2.public> commit
- [2024-11-27 18:58:07] completed in 1 ms
- lab8 [2024-11-27 18:58:09] transaction committed: @lab9
- lab2
- cons

92:8 (89 chars, 2 line breaks) CRLF UTF-8 4 spaces

Activate Windows  
Go to Settings to activate Windows.

18:58  
27.11.2024

Database Explorer

postgres@localhost [2]

- created\_at timestamp
- updated\_at timestamp
- status varchar(50)
- ticket\_price numeric(7,2)
- ticket\_discount integer
- keys 2
- foreign keys 1
- indexes 3
- checks 2
- check\_price = ticket\_price \* 0.6

Services

Output lab2.public.booking

- postgres [2024-11-27 18:58:20] completed in 1 ms
- book [2024-11-27 18:58:22] transaction committed: @lab9
- lab2.public> begin
- lab7 [2024-11-27 18:58:30] [25001] транзакция уже выполняется
- lab [2024-11-27 18:58:30] completed in 4 ms
- lab9 lab2.public> update booking set ticket\_discount = ticket\_discount where booking\_id = 41
- lab [2024-11-27 18:58:30] 1 row affected in 1 ms
- lab2.public> rollback
- cons [2024-11-27 18:58:30] completed in 2 ms
- cons lab2.public> commit
- ci [2024-11-27 18:58:30] completed in 1 ms
- lab8 [2024-11-27 18:58:35] transaction committed: @lab9
- la
- cons
- ci

lab7 lab8 lab9 booking console\_9 console\_6 console\_5

Tx: Manual Playground

lab2.public

```
99 commit;
100
101 select * from baggage where booking_id = 13;
102
103 --8
104 begin;
105 update booking set ticket_discount = ticket_discount where booking_id = 41;
106 rollback;
107 commit;
108
109 select * from booking where booking_id = 41;
110
```

1 5

104:1 (100 chars, 3 line breaks) CRLF UTF-8 4 spaces

18:58 27.11.2024

firstprVersion control

Database Explorer

postgres@localhost [2]

created\_at timestamp  
updated\_at timestamp  
status varchar(50)  
ticket\_price numeric(7,2)  
ticket\_discount integer

keys 2  
foreign keys 1  
indexes 3  
checks 2

check\_price (ticket\_price >= 0)

lab7lab8lab9 xbookingconsole\_9console\_6console\_5

lab2.public

select \* from booking where booking\_id = 41;

--9  
begin;  
update booking set flight\_id = 151 where flight\_id = 150;  
update flights set flight\_id = 151 where flight\_id = 150;  
commit;

select \* from booking where flight\_id = 151;

Outputlab2.public.booking

lab2.public> begin  
[2024-11-27 19:01:42] [25001] транзакция уже выполняется  
[2024-11-27 19:01:42] completed in 4 ms  
lab2.public> update booking set flight\_id = 151 where flight\_id = 150  
[2024-11-27 19:01:42] 1 row affected in 3 ms  
lab2.public> update flights set flight\_id = 151 where flight\_id = 150  
[2024-11-27 19:01:42] 1 row affected in 3 ms  
lab2.public> commit  
[2024-11-27 19:01:42] completed in 2 ms  
[2024-11-27 19:01:44] transaction committed: @lab9  
lab2.public> select \* from booking where flight\_id = 151  
[2024-11-27 19:02:07] 1 row retrieved starting from 1 in 51 ms (execution: 5 ms, fetching: 46 ms)

Activate Windows  
Go to Settings to activate Windows.

Database Consoles > postgres@localhost [2] > lab9

115.8 CRLF UTF-8 4 spaces 19:02 27.11.2024