

pgAdmin 4

File Object Tools Edit View Window Help

Welcome × postgres/postgres... × postgres/postgres@PostgreSQL 17* ×

postgres/postgres@PostgreSQL 17

Query Query History Scratch Pad ×

```
1 begin
2 delete from Booking
3 where booking_id = 105;
4 delete from Booking
5 where booking_id = 999999999;
6 commit
7 select * from Booking
8 where booking_id = 105;
9
10
```

Data Output Messages Notifications

	booking_id [PK] integer	flight_id integer	passenger_id integer	booking_platform character varying (50)	created_at timestamp without time zone	updated_at timestamp without time zone	status character varying (50)	ticket_price numeric (7,2)	ticket_discount numeric (3,2)
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Total rows: 0 Query complete 00:00:00.096 CRLF Ln 6, Col 7

1. A passenger cancels their booking. You need to remove the booking for the flight. Ensure the 'booking' table no longer contains the booking. Simulate an error to test rollback (for example, invalid booking_id).

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Welcome x postgres/postgres... x postgres/postgres@PostgreSQL 17* x

postgres/postgres@PostgreSQL 17

Query Query History Scratch Pad x

```
1 begin
2 update Flights
3 set
4     sch_departure_time = '2026-01-05 12:00:00',
5     sch_arrival_time = '2026-01-05 16:30:00'
6 where flight_id = 43;
7 commit;
8 select flight_id, sch_departure_time, sch_arrival_time from Flights
9 where flight_id = 43;
10
```

Data Output Messages Notifications

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

	flight_id [PK] integer	sch_departure_time timestamp without time zone	sch_arrival_time timestamp without time zone
1	43	2026-01-05 12:00:00	2026-01-05 16:30:00

Total rows: 1 Query complete 00:00:00.137

Successfully run. Total query runtime: 137 msec. 1 rows affected.

CRLF Ln 8, Col 1

2. Rescheduling a flight. You need to reschedule a flight. Verify the 'flights' table reflects the new departure time. Simulate an error to test rollback (for example, invalid flight_id).

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postgres/postgres@PostgreSQL 17

Query Query History Scratch Pad x

```
1 begin
2 update Booking
3 set
4     ticket_price = ticket_price * 0.99
5 where flight_id = 136;
6 commit;
7 select booking_id, flight_id, ticket_price from Booking
8 where flight_id = 136;
9
```

Data Output Messages Notifications

Showing rows: 1 to 131 Page No: 1 of 1

	booking_id [PK] integer	flight_id integer	ticket_price numeric (7,2)
1	81	136	926.27
2	82	136	703.61
3	85	136	810.83
4	86	136	668.29
5	88	136	876.96
6	89	136	810.97
7	92	136	678.52
8	93	136	965.43
9	95	136	653.32
10	96	136	940.94
11	97	136	741.38
12	99	136	662.85
13	100	136	1001.50
14	103	136	938.67

Total rows: 131 Query complete 00:00:00.124 CRLF Ln 7, Col 1

3. Updating ticket prices. You need to decrease the ticket price for a specific flight for all existing bookings. If an error occurs, no changes should be applied.

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File Object Tools Edit View Window Help

Welcome × postgres/postgres... × postgres/postgres@PostgreSQL 17* ×

postgres/postgres@PostgreSQL 17

Query Query History Scratch Pad ×

```
1 begin
2 update Passengers
3 set
4     first_name = 'Misha',
5     last_name = 'Litvin',
6     country_of_citizenship = 'France',
7     updated_at = NOW()
8 where passenger_id = 50;
9
10 select passenger_id, first_name, last_name, country_of_citizenship
11 from Passengers
12 where passenger_id = 50;
13
14 commit;
```

Data Output Messages Notifications

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

	passenger_id [PK] integer	first_name character varying (50)	last_name character varying (50)	country_of_citizenship character varying (50)
1	50	Misha	Litvin	France

Total rows: 1 Query complete 00:00:00.125

✓ Successfully run. Total query runtime: 125 msec. 1 rows affected. ✕

CRLF Ln 9, Col 1

4. A passenger updates their details. Ensure the update is reflected across all associated records, including bookings.

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File Object Tools Edit View Window Help

Welcome × postgres/postgres... × postgres/postgres@PostgreSQL 17* ×

postgres/postgres@PostgreSQL 17

Query Query History Scratch Pad

```
1 begin
2 insert into Passengers (first_name, last_name, date_of_birth, gender, country_of_citizenship, country_of_residence, passport_number)
3 values ('Adilet', 'Abishayev', '1991-05-15', 'Male', 'Kazakhstan', 'Germany', 'RG12345678')
4 commit
5 select * from Passengers where last_name = 'Abishayev' and passport_number = 'RG12345678';
```

Data Output Messages Notifications

Showing rows: 1 to 1 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 (20)	created_at timestamp without time zone	updated_at timestamp without time zone
1	234	Adilet	Abishayev	1991-05-15	Male	Kazakhstan	Germany	RG12345678	2025-11-25 21:32:26.601582	2025-11-25 21:32:26.601582

Total rows: 1 Query complete 00:00:00.175

Successfully run. Total query runtime: 175 msec. 1 rows affected.

CRLF Ln 5, Col 1

5. A new passenger is registered, and a booking is created.
Ensure the new passenger is added and the booking succeeds.

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postgres/postgres@PostgreSQL 17

Query Query History Scratch Pad ×

```
1 begin
2 update Booking
3 set
4     ticket_price = ticket_price + 50.00,
5     updated_at = NOW()
6 where flight_id = 136;
7 commit
8 select booking_id, flight_id, ticket_price from Booking
9 where flight_id = 136;
```

Data Output Messages Notifications

Showing rows: 1 to 131 Page No: 1 of 1

	booking_id [PK] integer	flight_id integer	ticket_price numeric (7,2)
1	81	136	976.27
2	82	136	753.61
3	85	136	860.83
4	86	136	718.29
5	88	136	926.96
6	89	136	860.97
7	92	136	728.52
8	93	136	1015.43
9	95	136	703.32
10	96	136	990.94
11	97	136	791.38
12	99	136	712.85
13	100	136	1051.50
14	103	136	988.67

✓ Successfully run. Total query runtime: 137 msec. 131 rows affected. ✕

Total rows: 131 Query complete 00:00:00.137 CRLF Ln 8, Col 1

6. Increase the ticket price for all bookings on a specific flight by a fixed amount.

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File Object Tools Edit View Window Help

Welcome × postgres/postgres... × postgres/postgres@PostgreSQL 17* ×

postgres/postgres@PostgreSQL 17

Query Query History

```
1 begin
2 update Baggage
3 set
4     weight_in_kg = 19.80,
5     updated_at = NOW()
6 where baggage_id = 103;
7 commit
8 select baggage_id, weight_in_kg from Baggage
9 where baggage_id = 103;
```

Scratch Pad ×

Data Output Messages Notifications

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

	baggage_id [PK] integer	weight_in_kg numeric (4,2)
1	103	19.80

✓ Successfully run. Total query runtime: 166 msec. 1 rows affected. ✕

Total rows: 1 Query complete 00:00:00.166 CRLF Ln 8, Col 1

7. Update a baggage weight. A passenger updates the declared weight of their baggage. Ensure that the change is correctly reflected in the database.

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Welcome × postgres/postgres... × postgres/postgres@PostgreSQL 17* ×

postgres/postgres@PostgreSQL 17

Query Query History Scratch Pad ×

```
1 begin
2 update Booking
3 set
4     ticket_price = ticket_price * 0.80,
5     updated_at = NOW()
6 where booking_id = 125;
7 commit
8 select booking_id, ticket_price from Booking where booking_id = 125;
```

Data Output Messages Notifications

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

	booking_id [PK] integer	ticket_price numeric (7,2)
1	125	656.63

Total rows: 1 Query complete 00:00:00.150

✓ Successfully run. Total query runtime: 150 msec. 1 rows affected. ✕

CRLF Ln 7, Col 7

8. Apply a discount to a booking for a specific passenger. If any error occurs, roll back.

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Welcome × postgres/postgres... × postgres/postgres@PostgreSQL 17* ×

postgres/postgres@PostgreSQL 17

Query Query History Scratch Pad ×

```
1 begin
2 update Booking
3 set
4     flight_id = 201,
5     updated_at = NOW(),
6     status = 'Rescheduled'
7 where flight_id = 101;
8 commit
9 select booking_id, flight_id, status from Booking
10 where booking_id = 167;
11
12
```

Data Output Messages Notifications

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

	booking_id [PK] integer	flight_id integer	status character varying (50)
1	167	136	Rescheduled

Total rows: 1 Query complete 00:00:00.147

✓ Successfully run. Total query runtime: 147 msec. 1 rows affected. ✕

CRLF Ln 9, Col 1

9. Reschedule all bookings for a flight to a new flight.