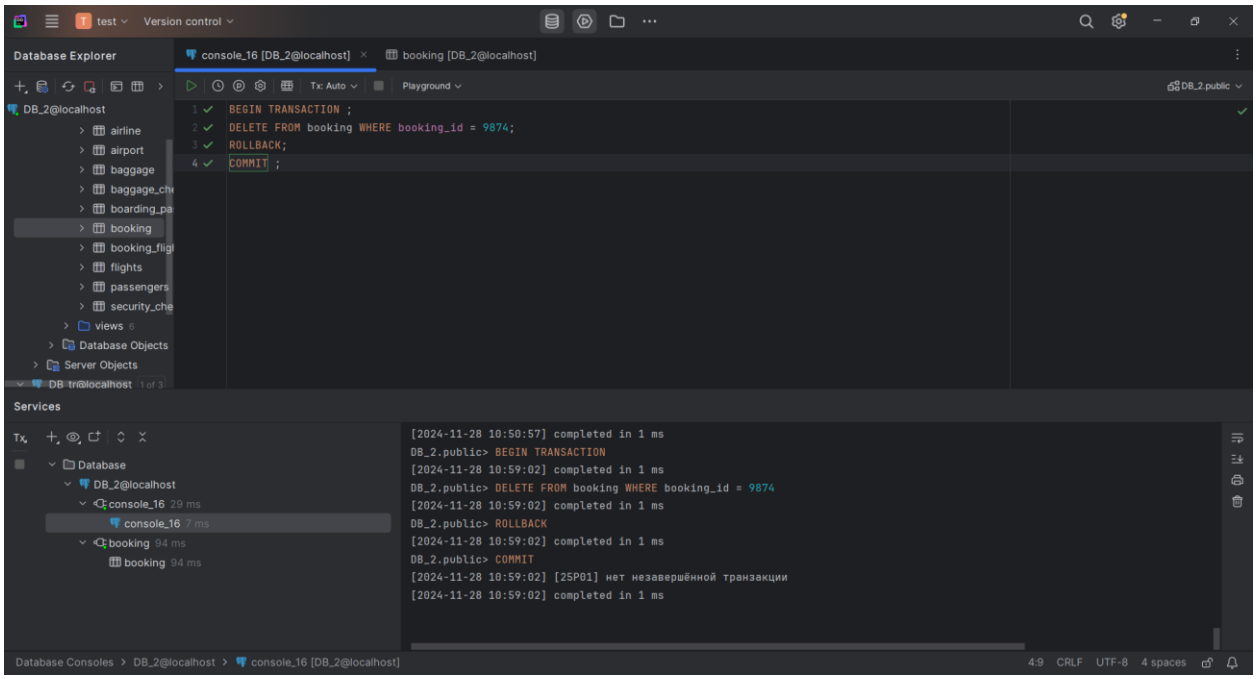
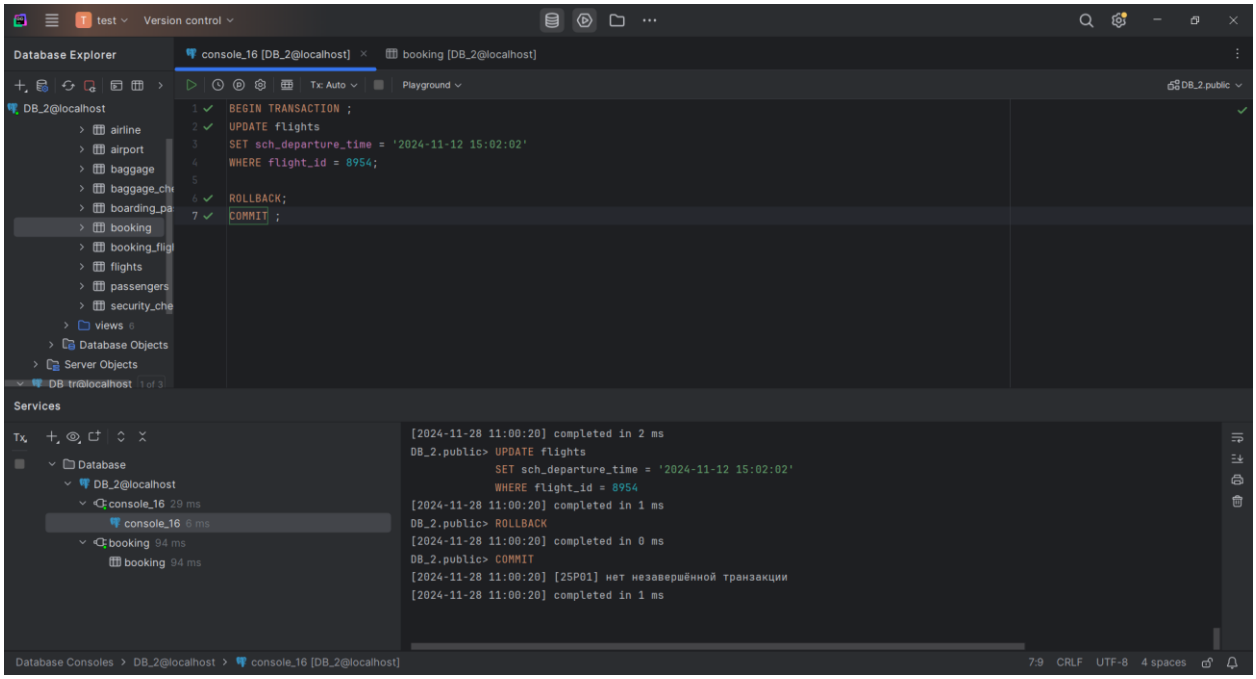
Laboratory work 9

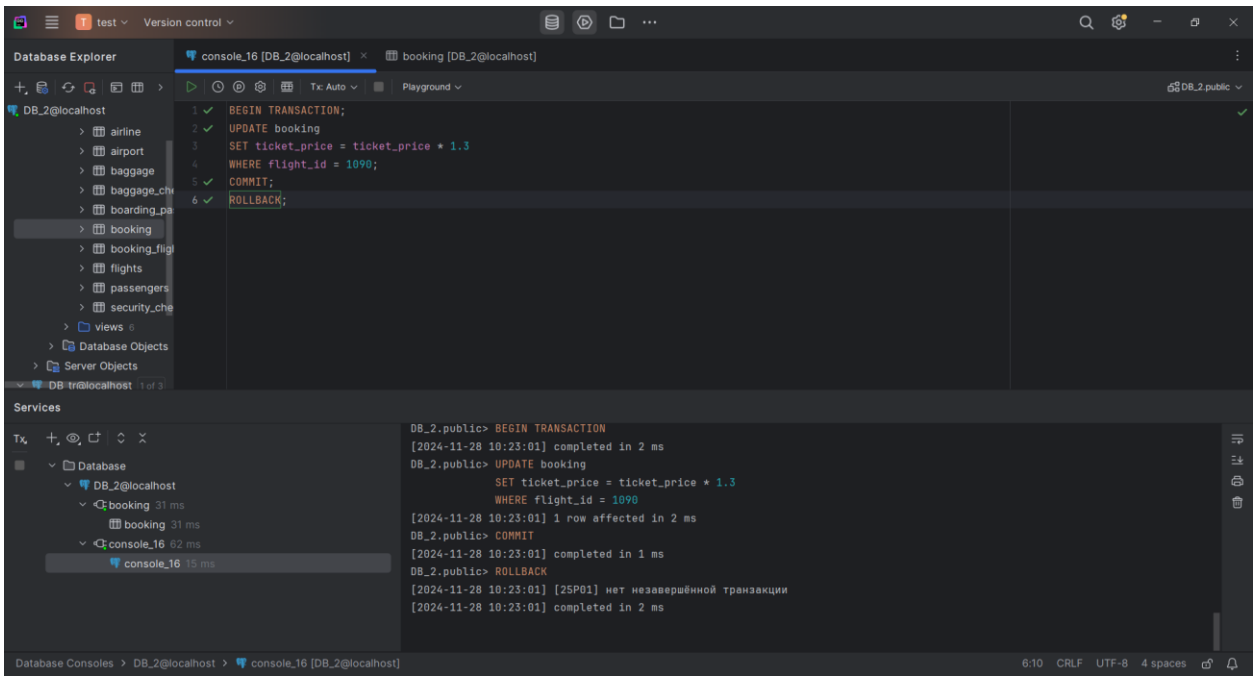
1.A passenger cancels their booking. You need to remove the booking for the flight. Ensure the ‘booking’ table no longer contains the booking. Simulate an error to test rollback (for example, invalid booking_id).



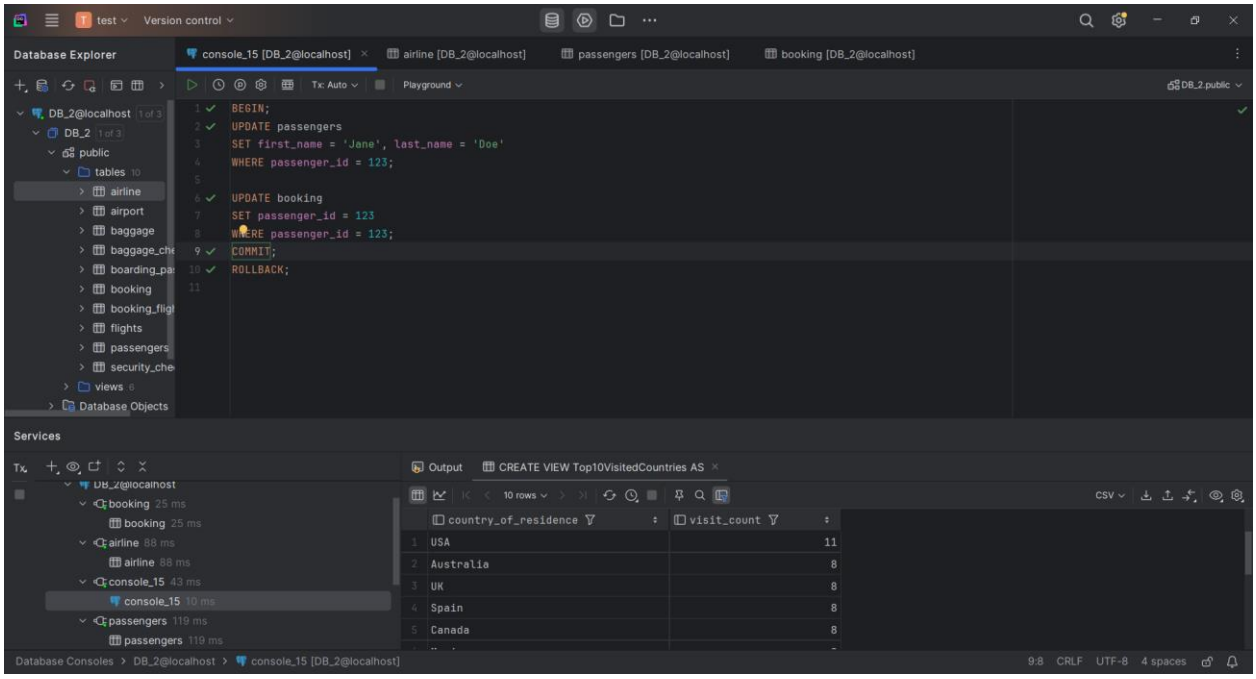
2. Rescheduling a flight. You need to reschedule a flight. Verify the ‘flights’ table reflects the new departure time. Simulate an error to test rollback (for example, invalid flight_id).



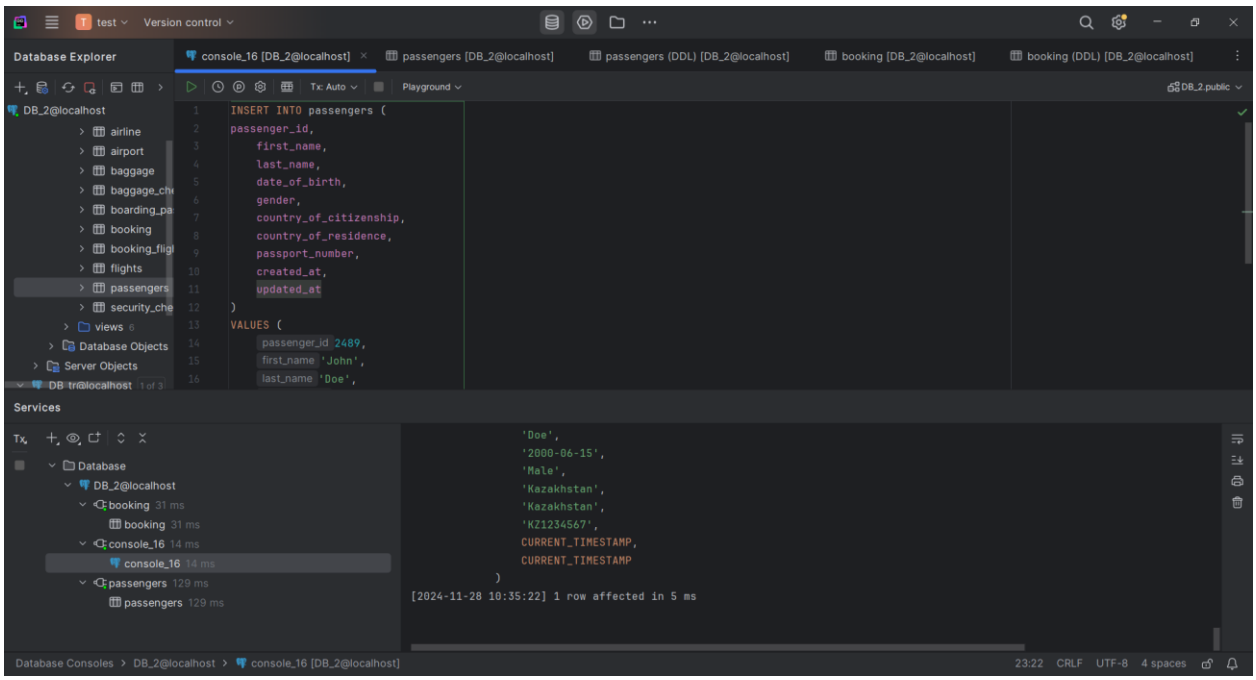
3. Updating ticket prices. You need to decrease the ticket price for a specific flight for all existing bookings. If an error occurs, no changes should be applied.

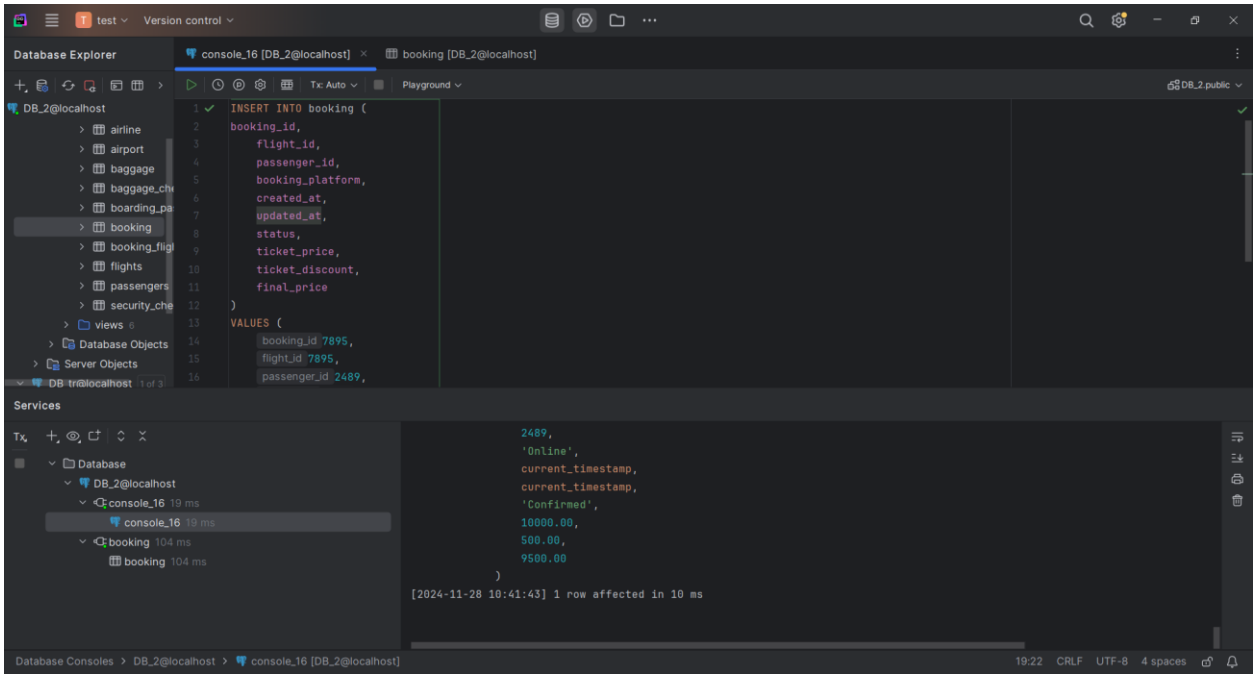


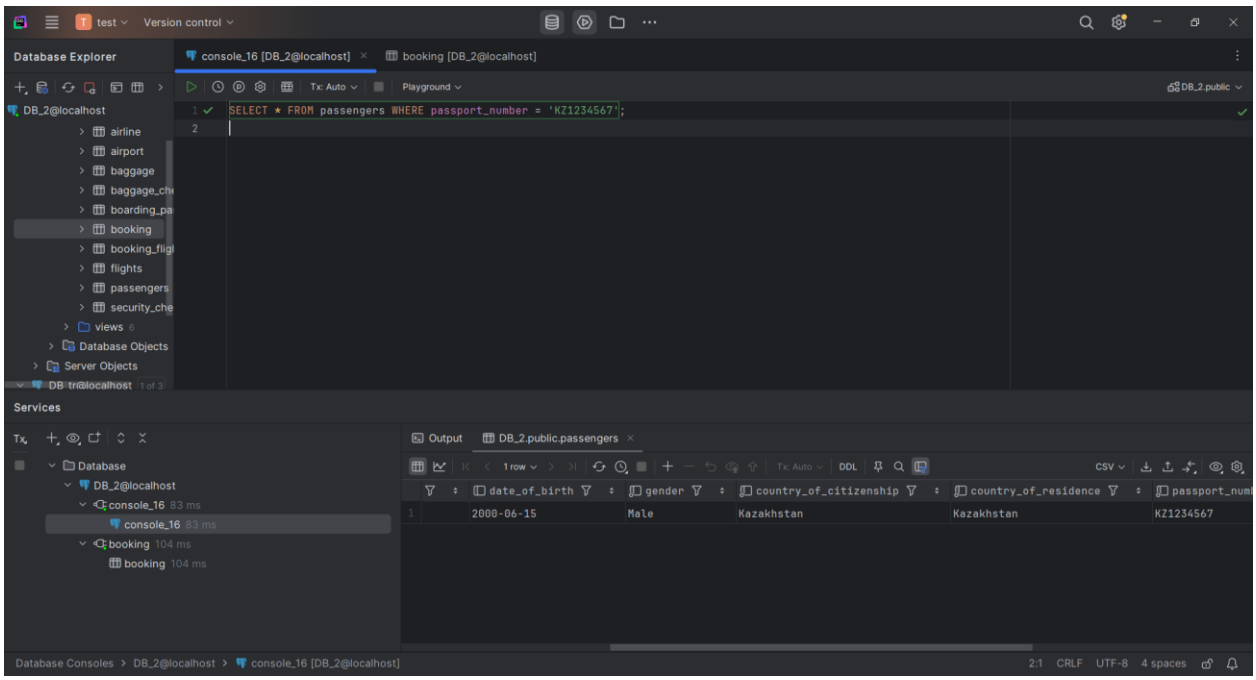
4. A passenger updates their details. Ensure the update is reflected across all associated records, including bookings.



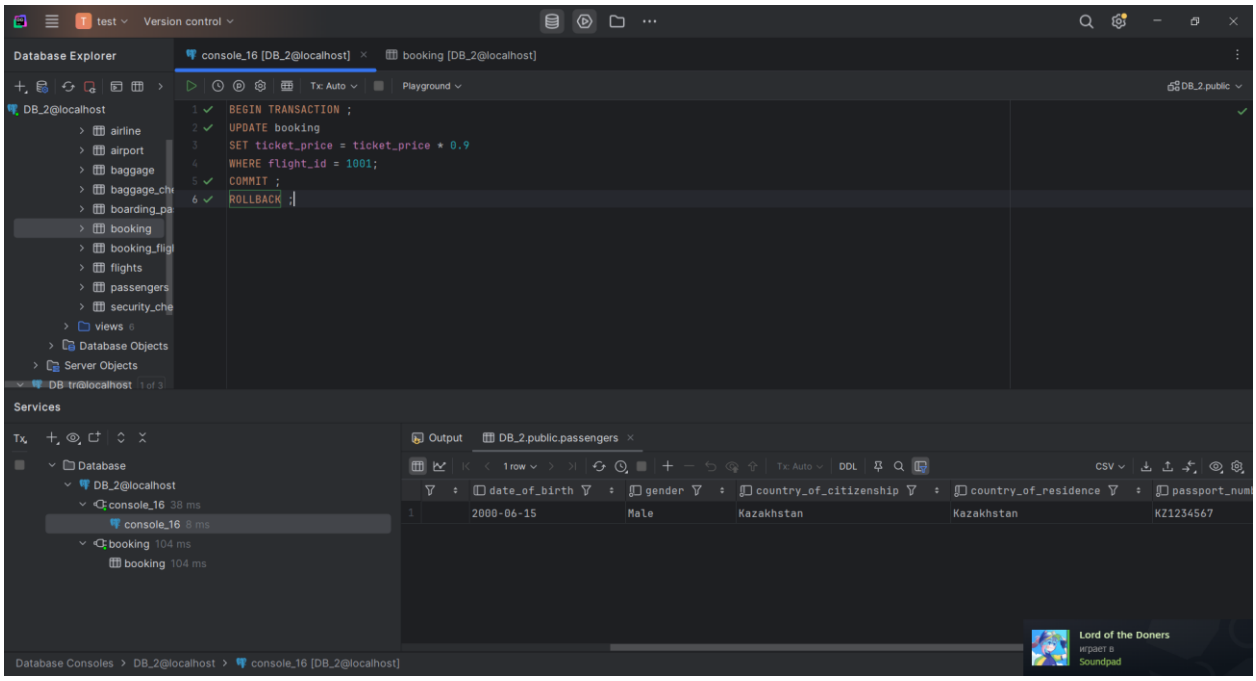
5. A new passenger is registered, and a booking is created. Ensure the new passenger is added and the booking succeeds.


test
Version control
Database Explorer
console_16 [DB_2@localhost]
passengers [DB_2@localhost]
passengers (DDL) [DB_2@localhost]
booking [DB_2@localhost]
booking (DDL) [DB_2@localhost]
Tx: Auto
Playground
DB_2.public
DB_2@localhost
airline
airport
baggage
flights
passengers
booking
views 6
Database Objects
Server Objects
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 (
passenger_id 2489,
first_name 'John',
last_name 'Doe',
Services
Database
DB_2@localhost
booking 31 ms
booking 31 ms
console_16 14 ms
console_16 14 ms
passengers 129 ms
passengers 129 ms
'Doe',
'2000-06-15',
'Male',
'Kazakhstan',
'Kazakhstan',
'KZ1234567',
CURRENT_TIMESTAMP,
CURRENT_TIMESTAMP
)
[2024-11-28 10:35:22] 1 row affected in 5 ms
Database Consoles
DB_2@localhost
console_16 [DB_2@localhost]
23:22
CRLF
UTF-8
4 spaces

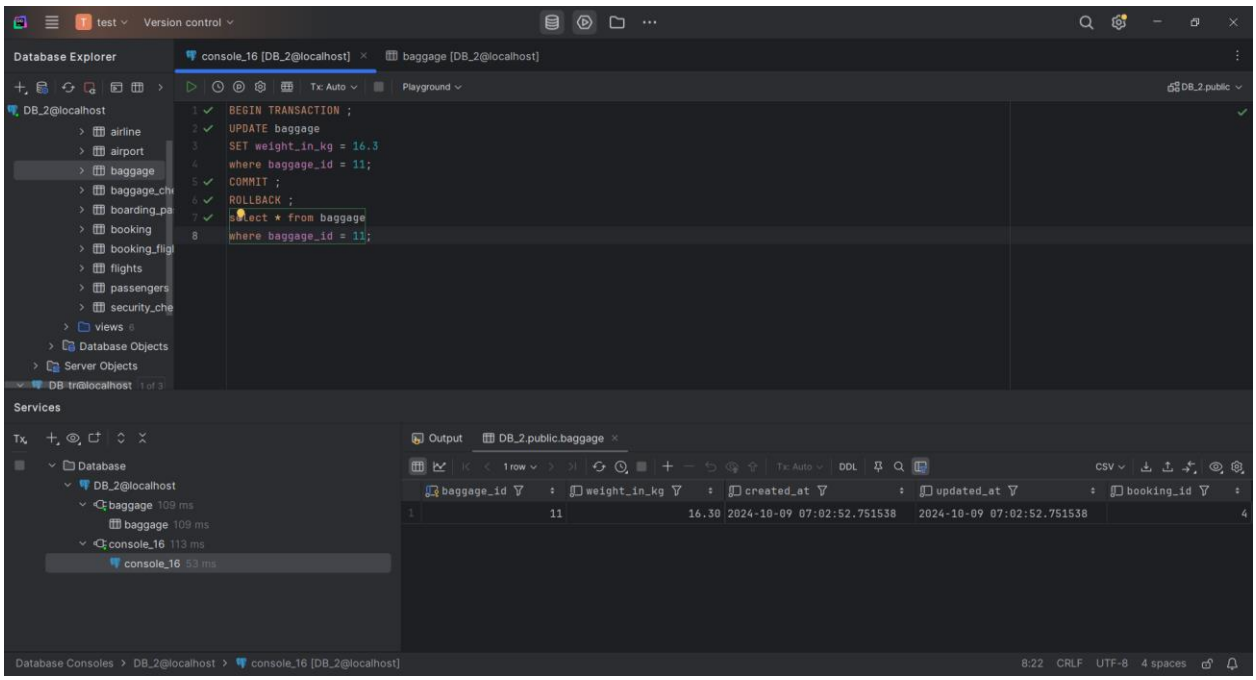

test
Version control
Database Explorer
console_16 [DB_2@localhost]
booking [DB_2@localhost]
Tx: Auto
Playground
DB_2.public
DB_2@localhost
airline
airport
baggage
flights
passengers
booking
views 6
Database Objects
Server Objects
INSERT INTO booking (
booking_id,
flight_id,
passenger_id,
booking_platform,
created_at,
updated_at,
status,
ticket_price,
ticket_discount,
final_price
)
VALUES (
booking_id 7895,
flight_id 7895,
passenger_id 2489,
Services
Database
DB_2@localhost
console_16 19 ms
console_16 19 ms
booking 104 ms
booking 104 ms
2489,
'Online',
current_timestamp,
current_timestamp,
'Confirmed',
10000.00,
500.00,
9500.00
)
[2024-11-28 10:41:43] 1 row affected in 10 ms
Database Consoles
DB_2@localhost
console_16 [DB_2@localhost]
19:22
CRLF
UTF-8
4 spaces



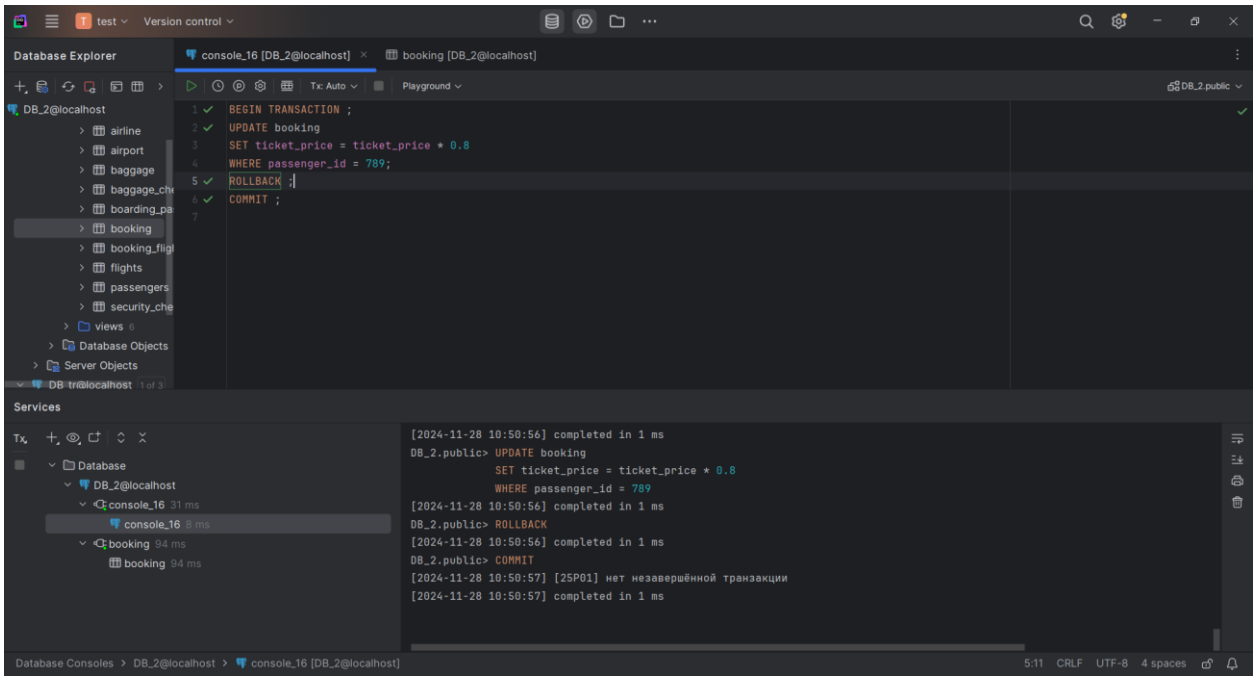
6. Increase the ticket price for all bookings on a specific flight by a fixed amount.



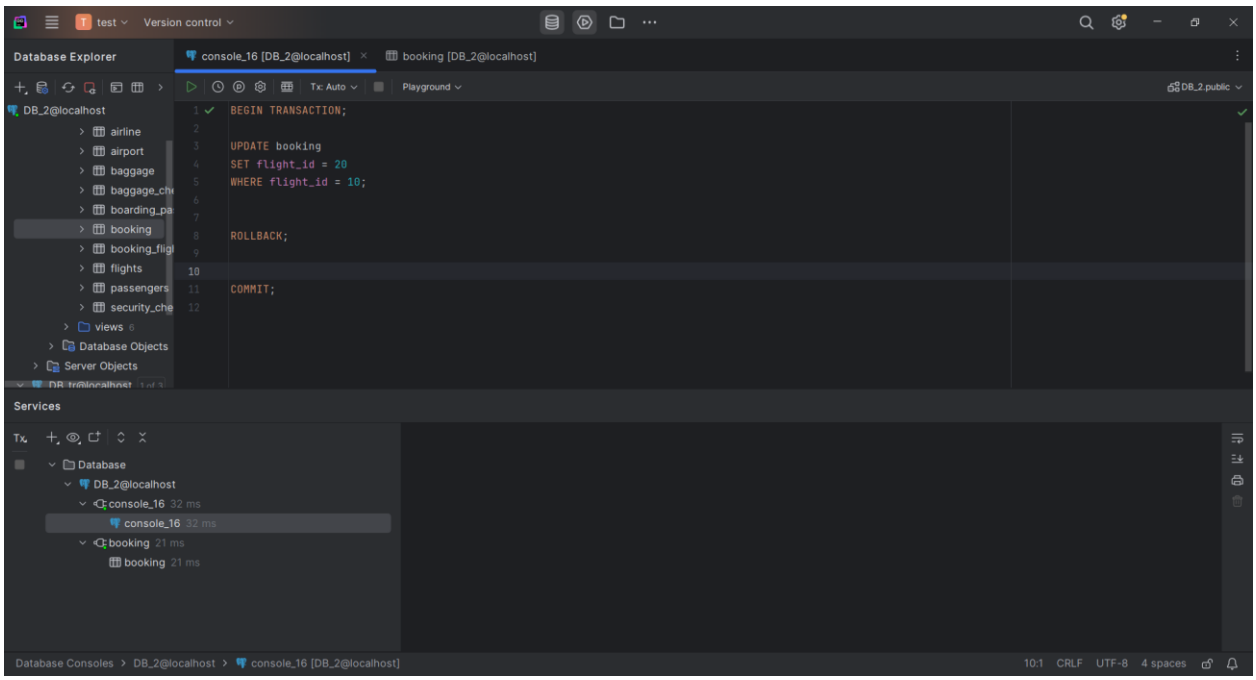
7. Update a baggage weight. A passenger updates the declared weight of their baggage. Ensure that the change is correctly reflected in the database.

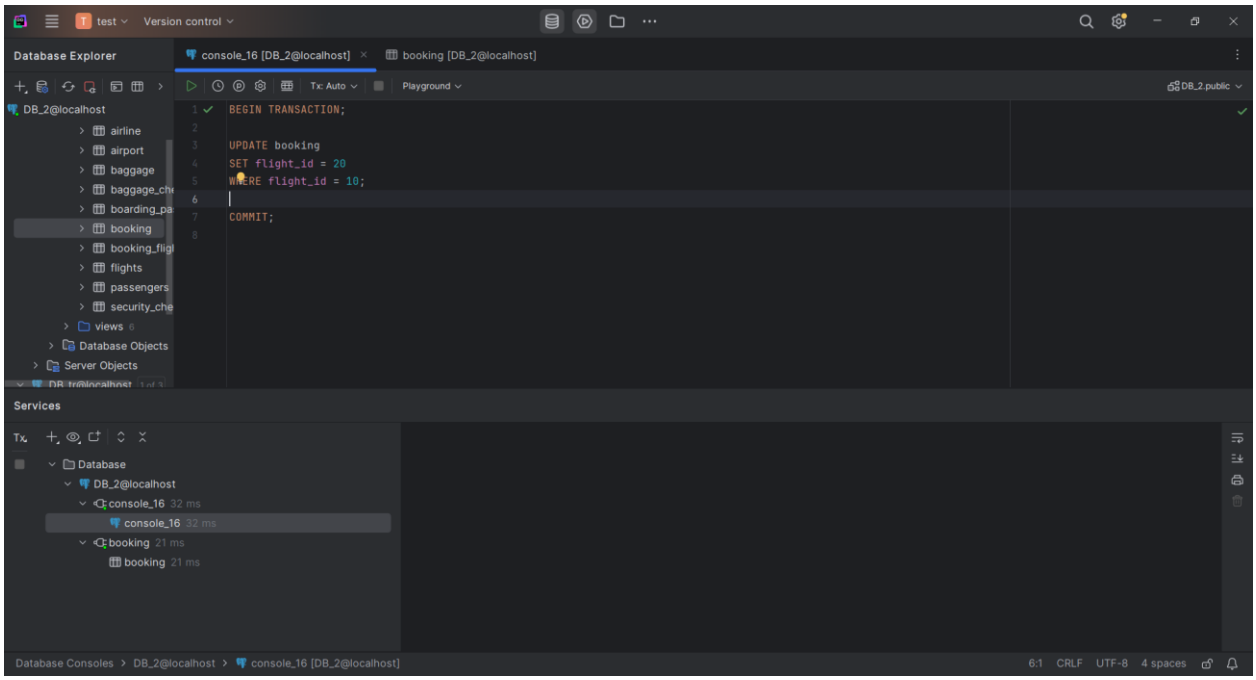


8. Apply a discount to a booking for a specific passenger. If any error occurs, roll back.



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


test
Version control
Database Explorer
console_16 [DB_2@localhost]
booking [DB_2@localhost]
Tx: Auto
Playground
DB_2.public
DB_2@localhost
airline
airport
baggage
baggage_ch
boarding_pa
booking
booking_flig
flights
passengers
security_che
views 6
Database Objects
Server Objects
BEGIN TRANSACTION;
UPDATE booking
SET flight_id = 20
WHERE flight_id = 10;
ROLLBACK;
COMMIT;
Services
Database
DB_2@localhost
console_16 32 ms
console_16 32 ms
booking 21 ms
booking 21 ms
Database Consoles
DB_2@localhost
console_16 [DB_2@localhost]
10:1
CRLF
UTF-8
4 spaces


test
Version control
Database Explorer
console_16 [DB_2@localhost]
booking [DB_2@localhost]
Tx: Auto
Playground
DB_2.public
DB_2@localhost
airline
airport
baggage
baggage_ch
boarding_pa
booking
booking_flig
flights
passengers
security_che
views 6
Database Objects
Server Objects
BEGIN TRANSACTION;
UPDATE booking
SET flight_id = 20
WHERE flight_id = 10;
COMMIT;
Services
Database
DB_2@localhost
console_16 32 ms
console_16 32 ms
booking 21 ms
booking 21 ms
Database Consoles
DB_2@localhost
console_16 [DB_2@localhost]
6:1
CRLF
UTF-8
4 spaces