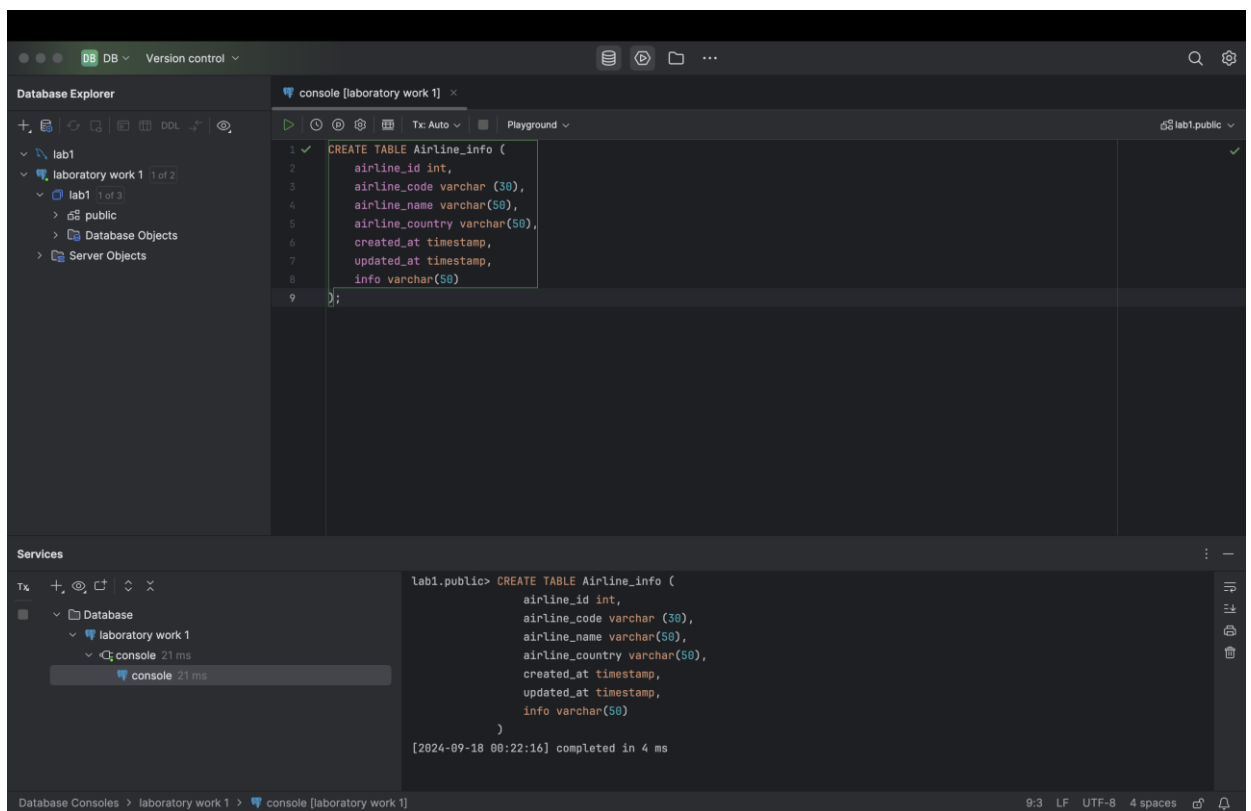


Laboratory work #1

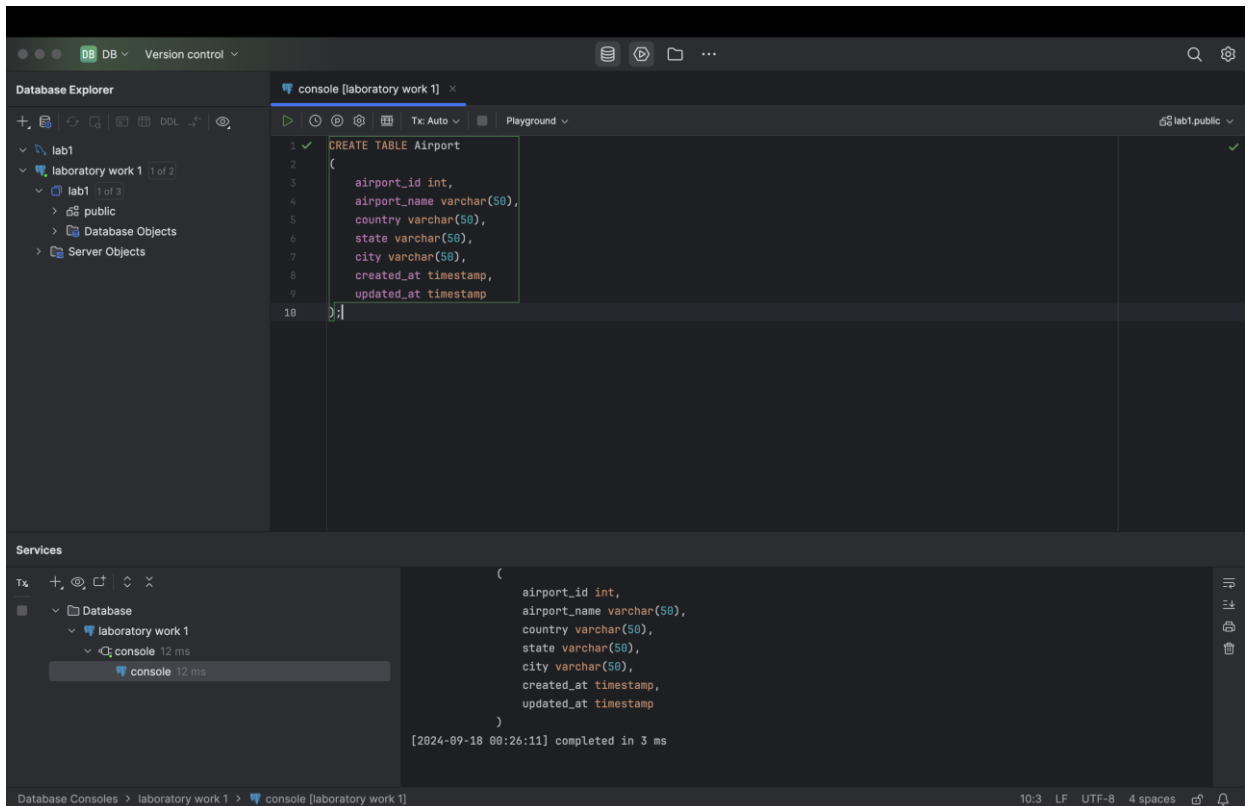
Submission format: word or pdf document containing screenshots of your tasks with answers that covers full-page (Alt+PrtSc).

1. Create following tables with corresponding attributes (30 %):

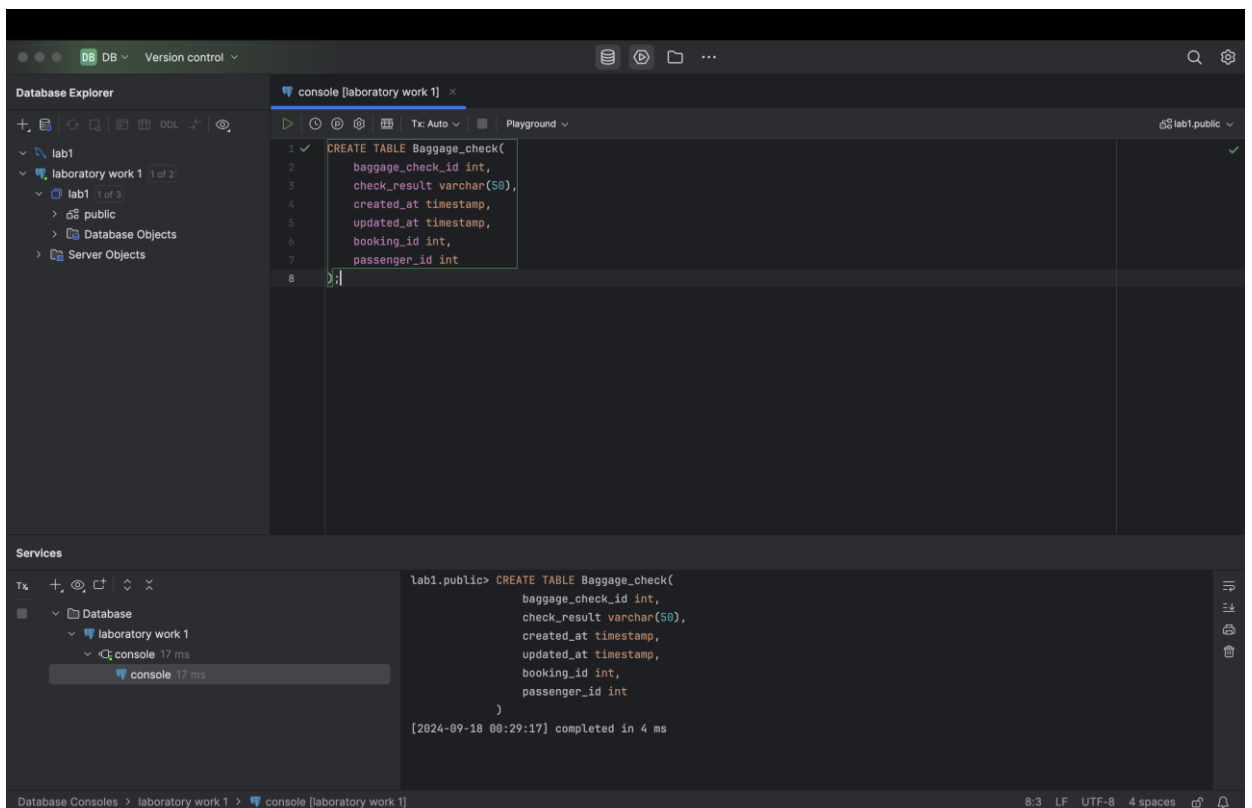
- Airline_info: airline_id (int), airline_code (varchar (30)),airline_name (varchar(50)),airline_country(vvarchar(50)), created_at(timestamp), updated_at(timestamp), info(vvarchar(50)) ;



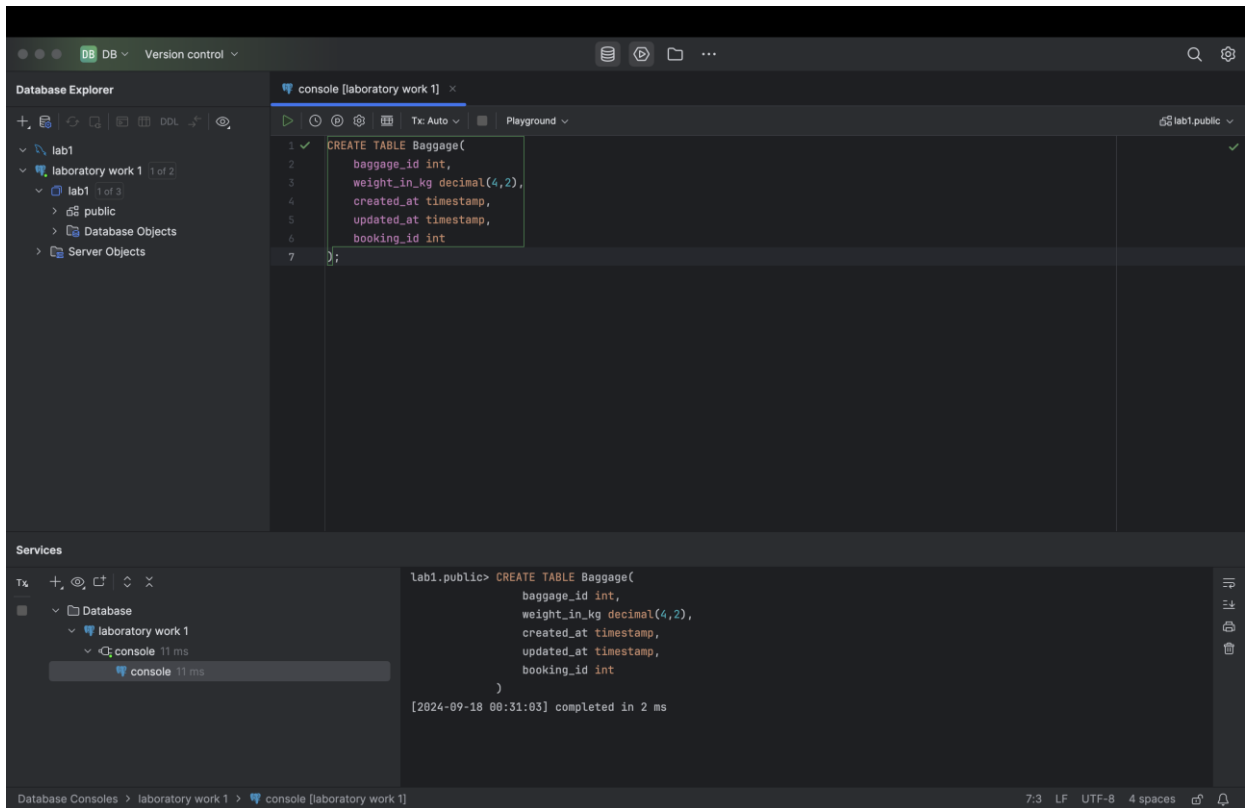
- Airport: airport_id(int), airport_name (varchar(50)),country (varchar(50)), state (varchar(50)), city(vvarchar(50)), created_at(timestamp), updated_at(timestamp) ;



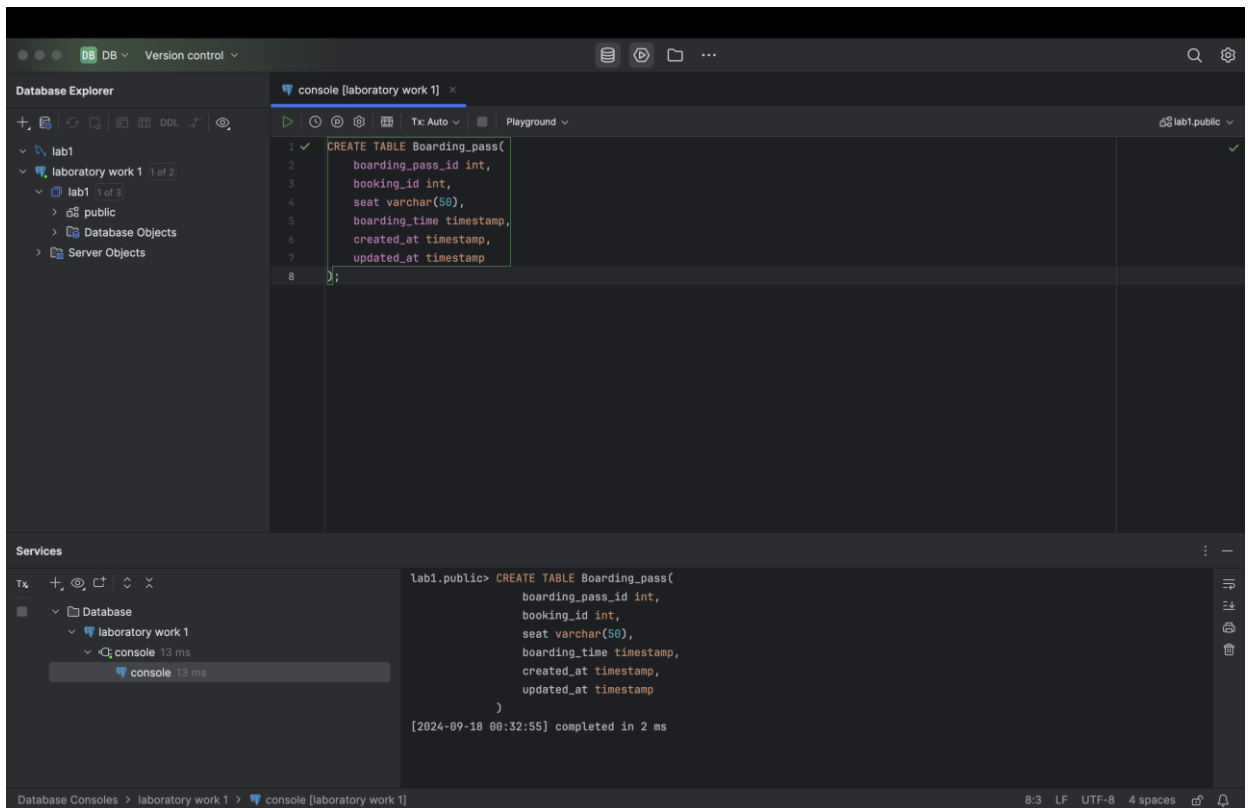
- Baggage_check: baggage_check_id(int), check_result (varchar(50)), created_at(timestamp), updated_at(timestamp), booking_id(int), passenger_id(int);



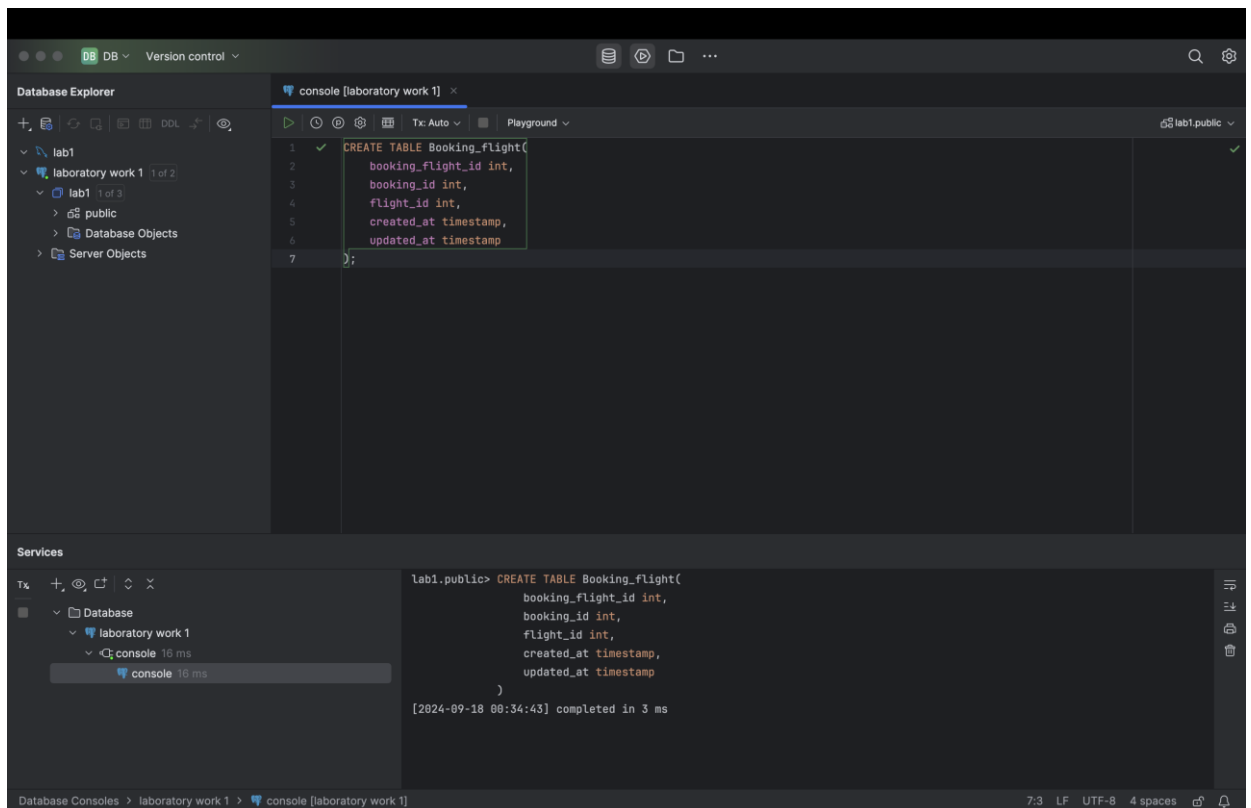
- Baggage: baggage_id(int), weight_in_kg (decimal(4,2)), created_at(timestamp), updated_at(timestamp) , booking_id(int);



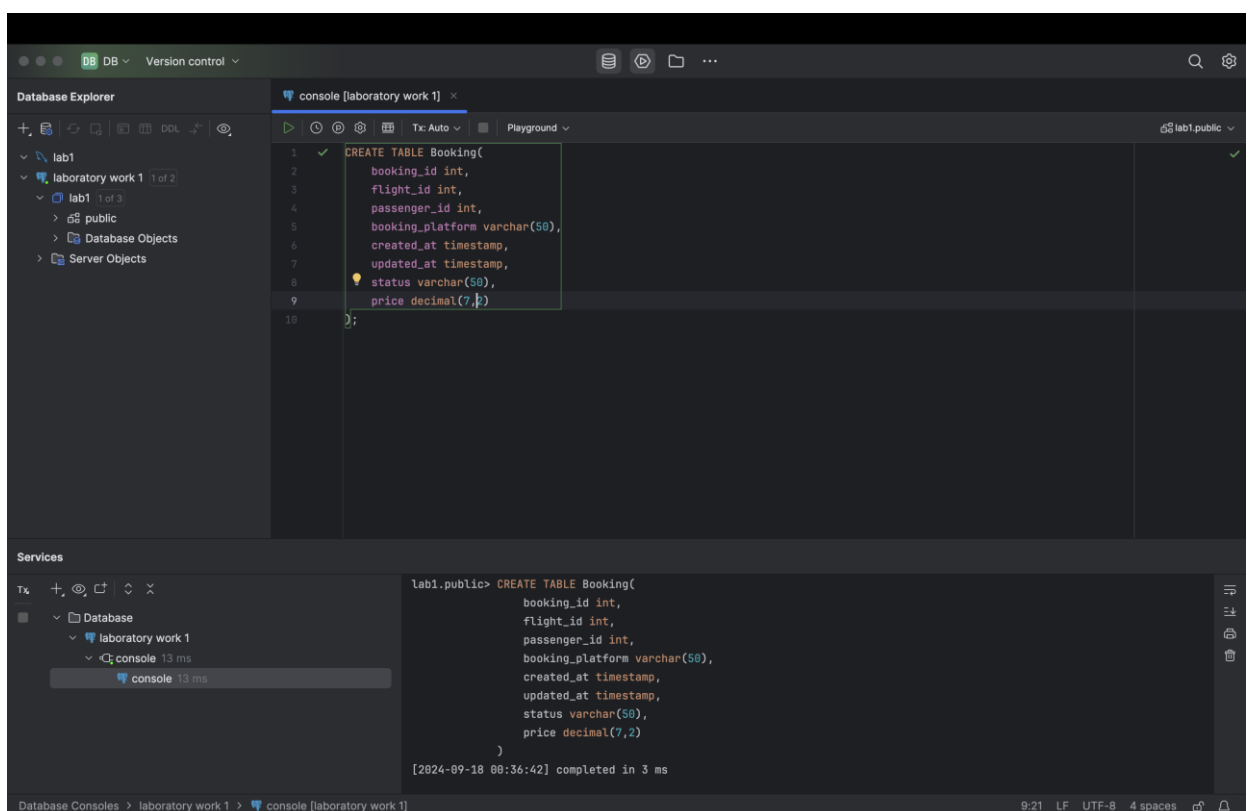
- Boarding_pass: boarding_pass_id(int), booking_id(int), seat (varchar(50)), boarding_time(timestamp), created_at(timestamp), updated_at(timestamp);



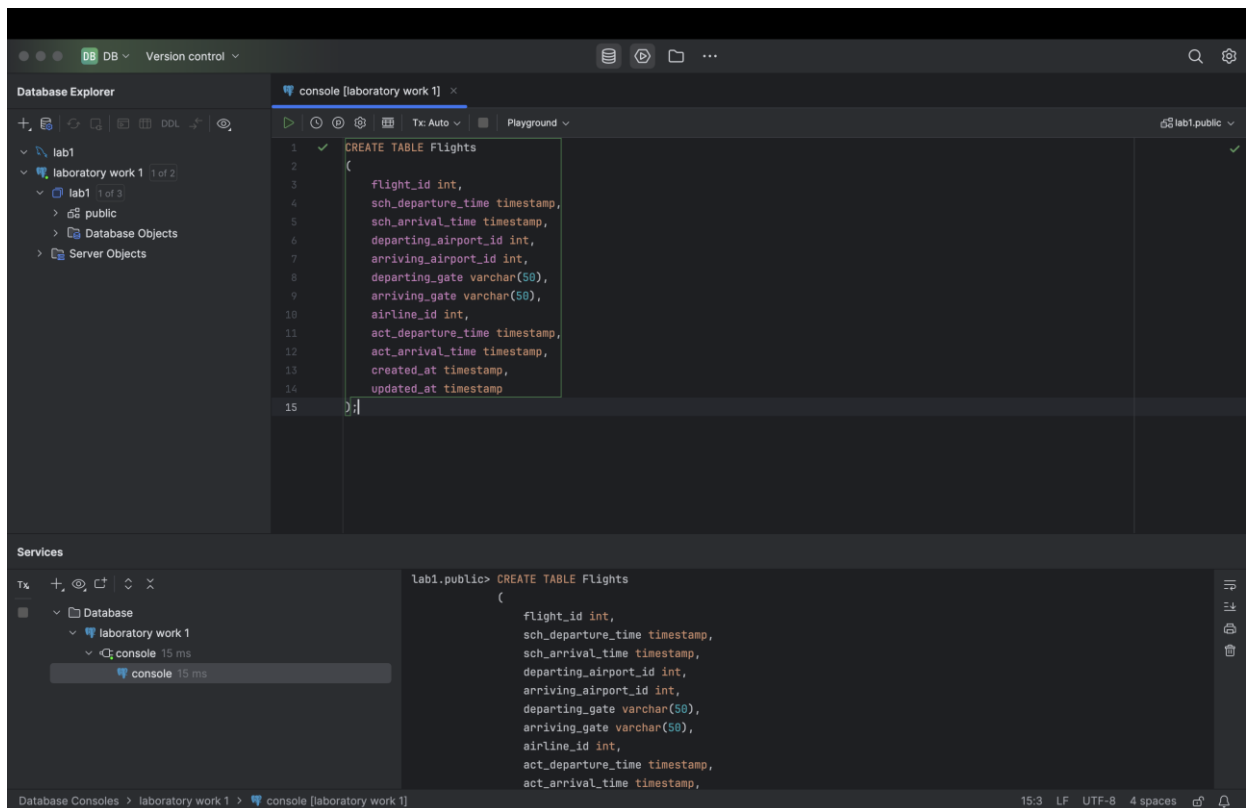
- Booking_flight: booking_flight_id(int), booking_id(int), flight_id(int), created_at(timestamp), updated_at(timestamp);



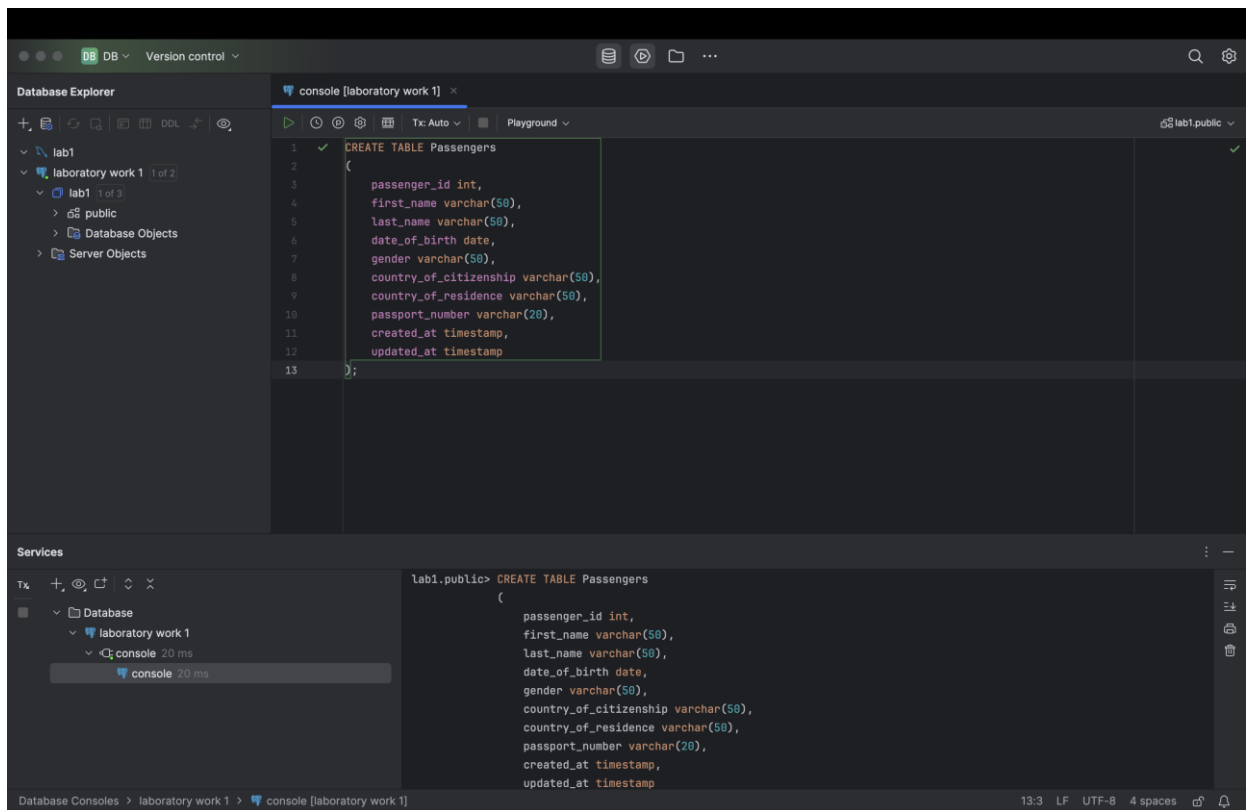
- Booking: booking_id(int), flight_id(int), passenger_id(int), booking_platform(varchar(50)), created_at(timestamp), updated_at(timestamp), status(varchar(50)), price(decimal(7,2));



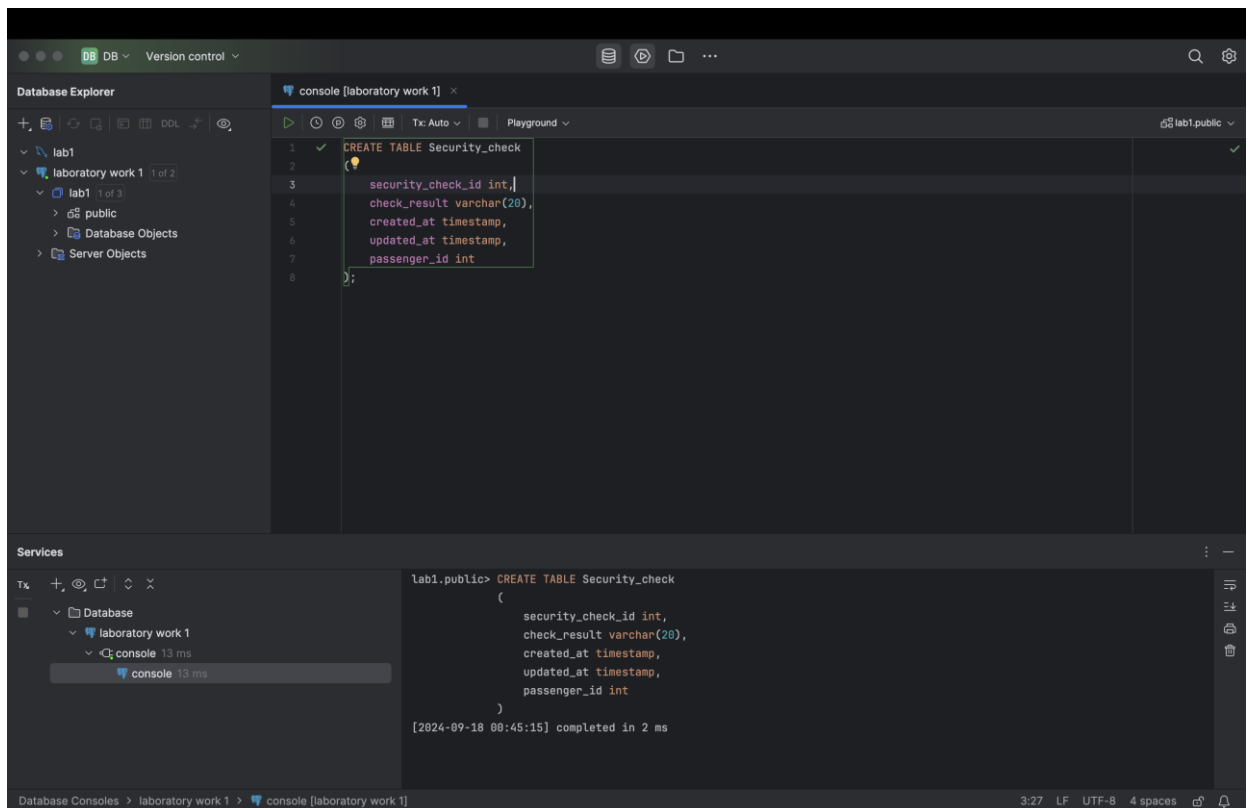
- Flights: flight_id(int), sch_departure_time(timestamp), sch_arrival_time(timestamp), departing_airport_id(int), arriving_airport_id(int), departing_gate(varchar(50)), arriving_gate(varchar(50)), airline_id(int), act_departure_time(timestamp), act_arrival_time(timestamp), created_at(timestamp), updated_at(timestamp) ;



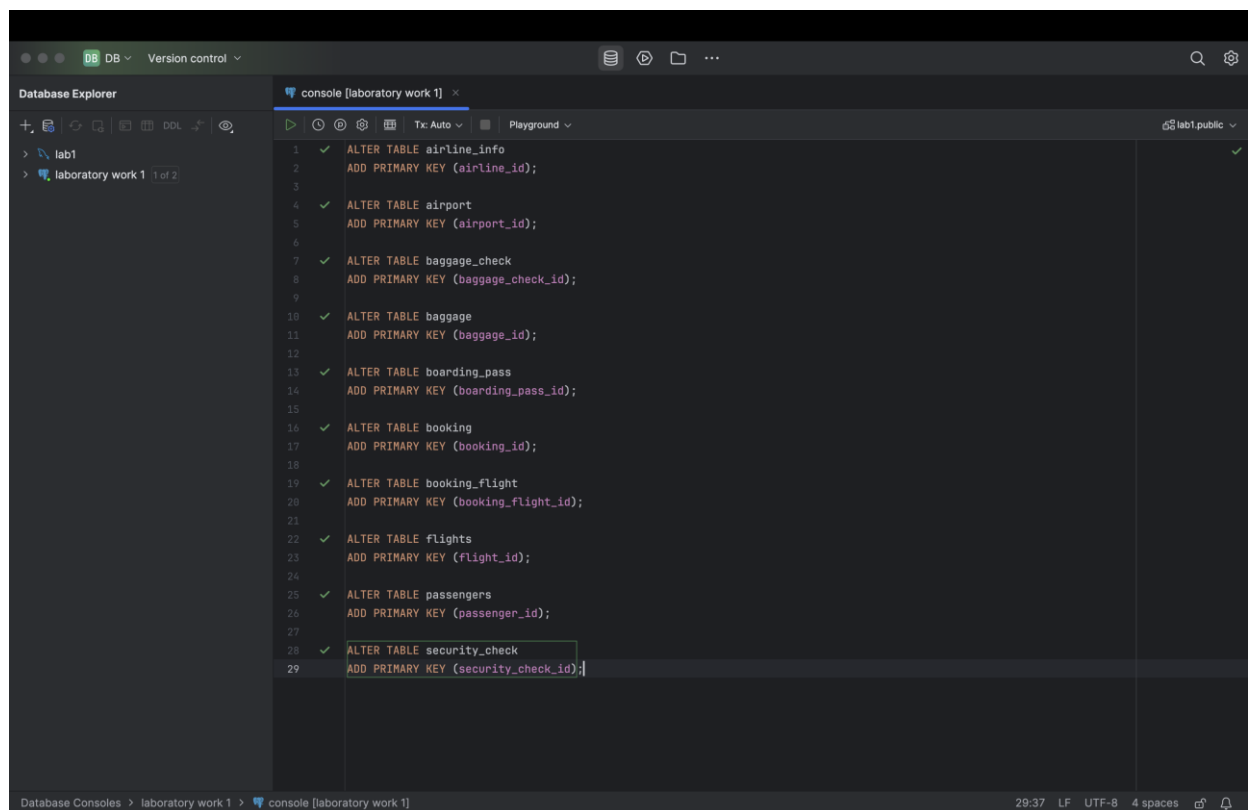
- Passengers: passenger_id(int), first_name(varchar(50)), last_name(varchar(50)), date_of_birth(date), gender(varchar(50)), country_of_citizenship(varchar(50)), country_of_residence(varchar(50)), passport_number(varchar(20)), created_at(timestamp), updated_at(timestamp) ;

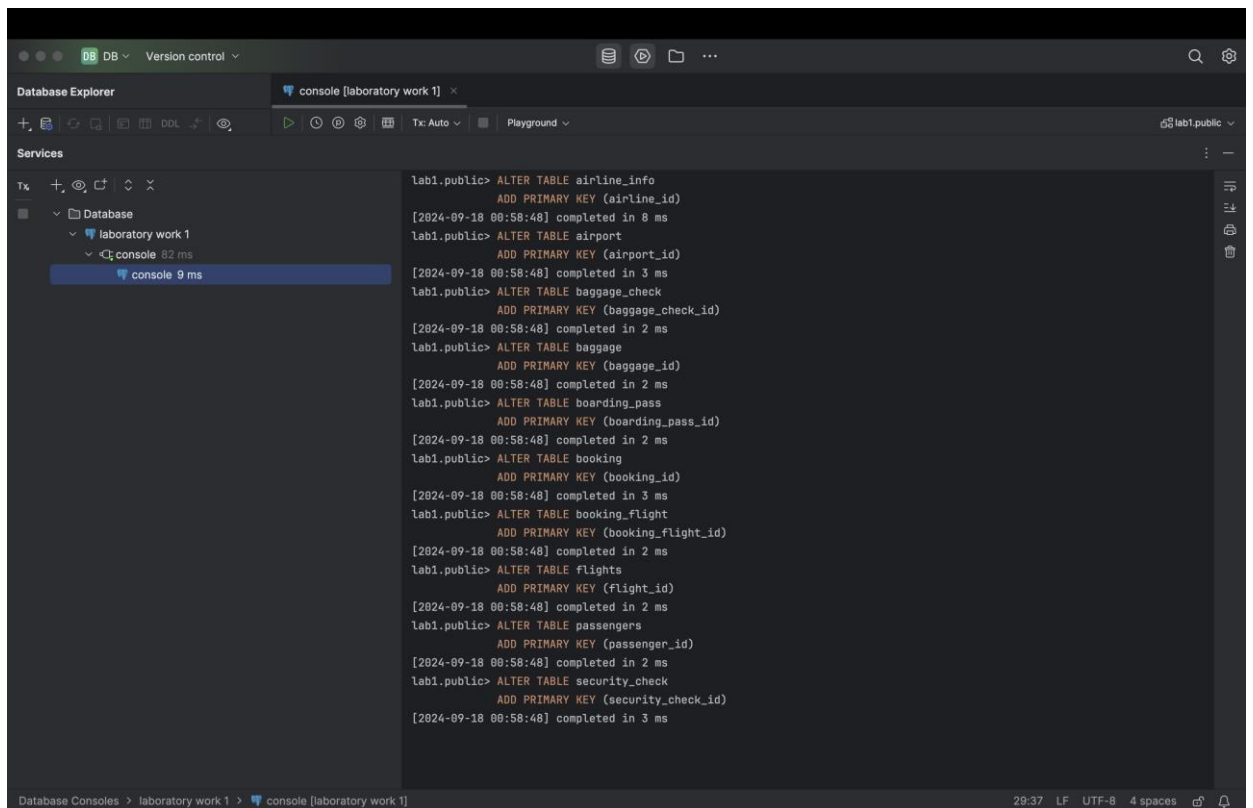


- Security_check: security_check_id(int), check_result(varchar(20)), created_at(timestamp), updated_at(timestamp), passenger_id(int);

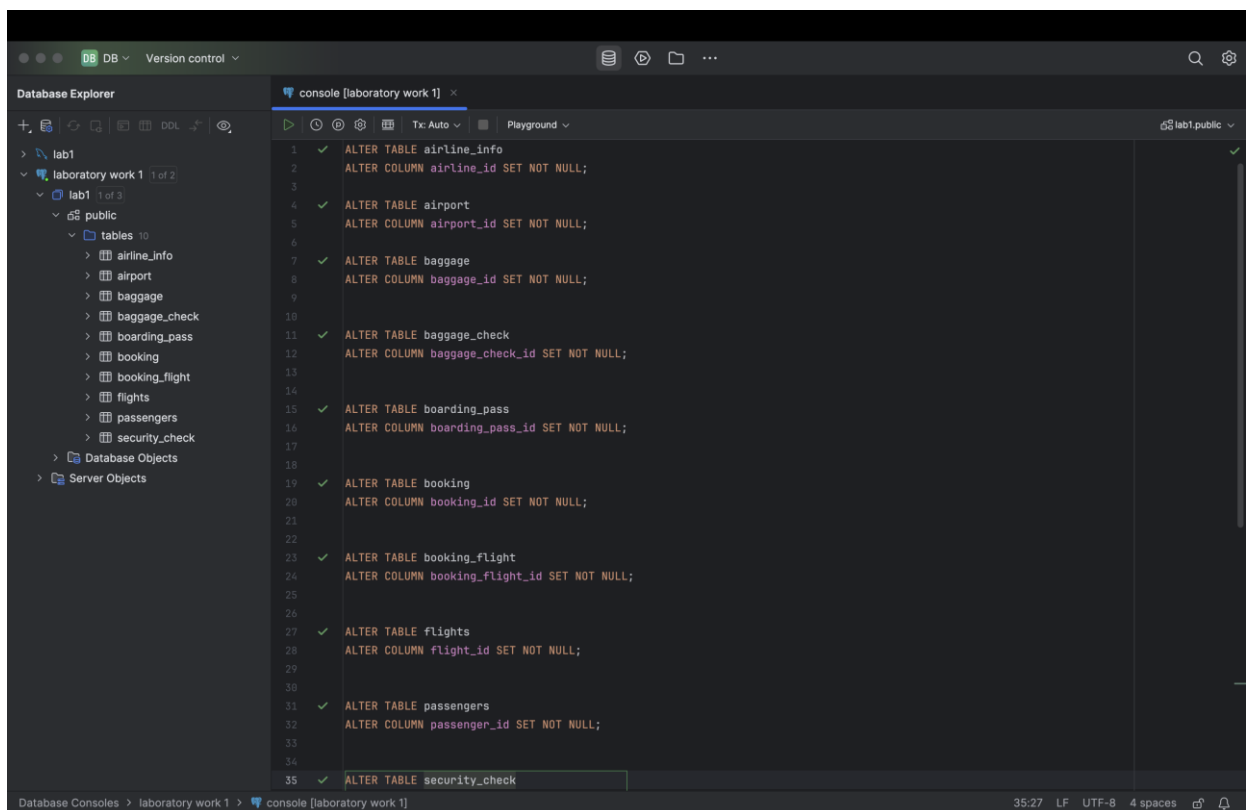


2. Define Primary Keys for each tables (15%);





3. Define for all attributes null, not null constraint(15%);



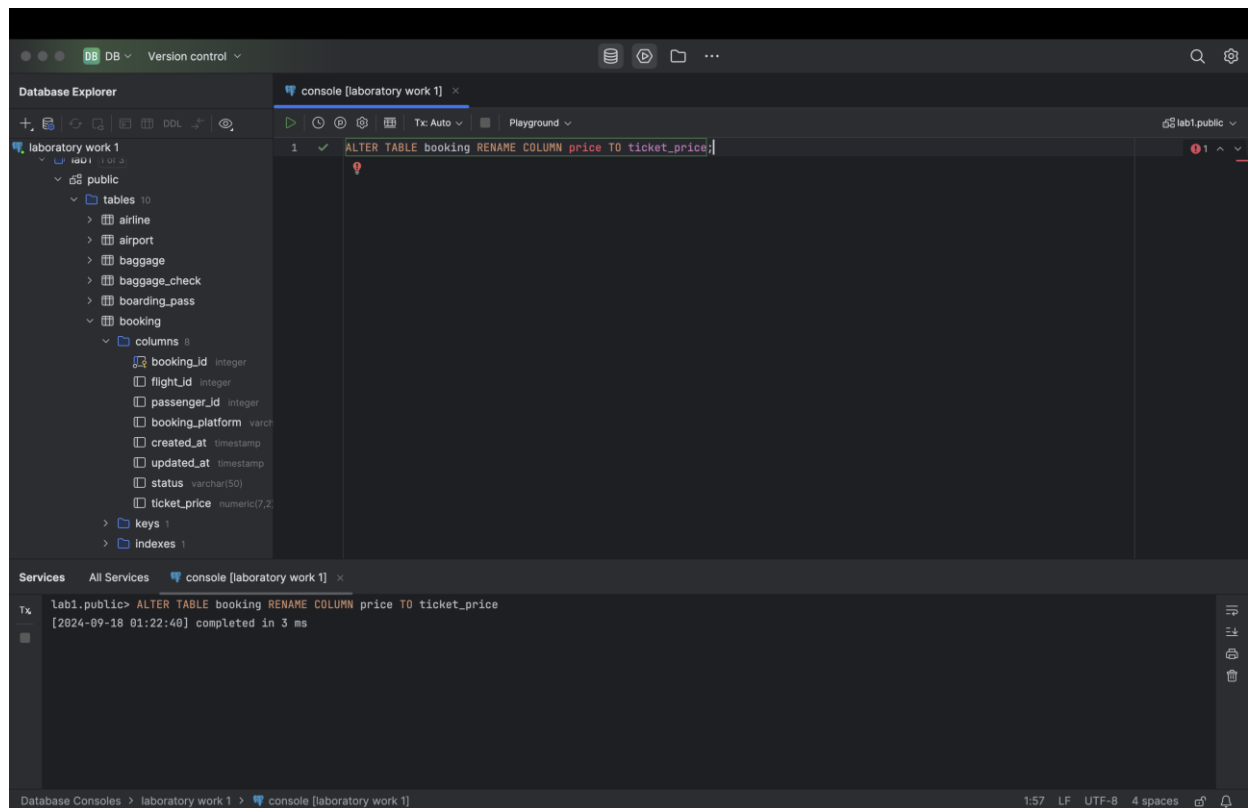

```
lab1.public> ALTER TABLE security_check
ADD PRIMARY KEY (security_check_id)
[2024-09-18 00:58:48] completed in 3 ms
lab1.public> ALTER TABLE airline_info
ALTER COLUMN airline_id SET NOT NULL
[2024-09-18 01:15:14] completed in 4 ms
lab1.public> ALTER TABLE airport
ALTER COLUMN airport_id SET NOT NULL
[2024-09-18 01:15:14] completed in 1 ms
lab1.public> ALTER TABLE baggage
ALTER COLUMN baggage_id SET NOT NULL
[2024-09-18 01:15:14] completed in 1 ms
lab1.public> ALTER TABLE baggage_check
ALTER COLUMN baggage_check_id SET NOT NULL
[2024-09-18 01:15:14] completed in 1 ms
lab1.public> ALTER TABLE boarding_pass
ALTER COLUMN boarding_pass_id SET NOT NULL
[2024-09-18 01:15:14] completed in 1 ms
lab1.public> ALTER TABLE booking
ALTER COLUMN booking_id SET NOT NULL
[2024-09-18 01:15:14] completed in 1 ms
lab1.public> ALTER TABLE booking_flight
ALTER COLUMN booking_flight_id SET NOT NULL
[2024-09-18 01:15:14] completed in 1 ms
lab1.public> ALTER TABLE flights
ALTER COLUMN flight_id SET NOT NULL
[2024-09-18 01:15:14] completed in 1 ms
lab1.public> ALTER TABLE passengers
ALTER COLUMN passenger_id SET NOT NULL
[2024-09-18 01:15:14] completed in 1 ms
lab1.public> ALTER TABLE security_check
ALTER COLUMN security_check_id SET NOT NULL
[2024-09-18 01:15:14] completed in 1 ms
```

4. Rename airline_info table to airline (10%).

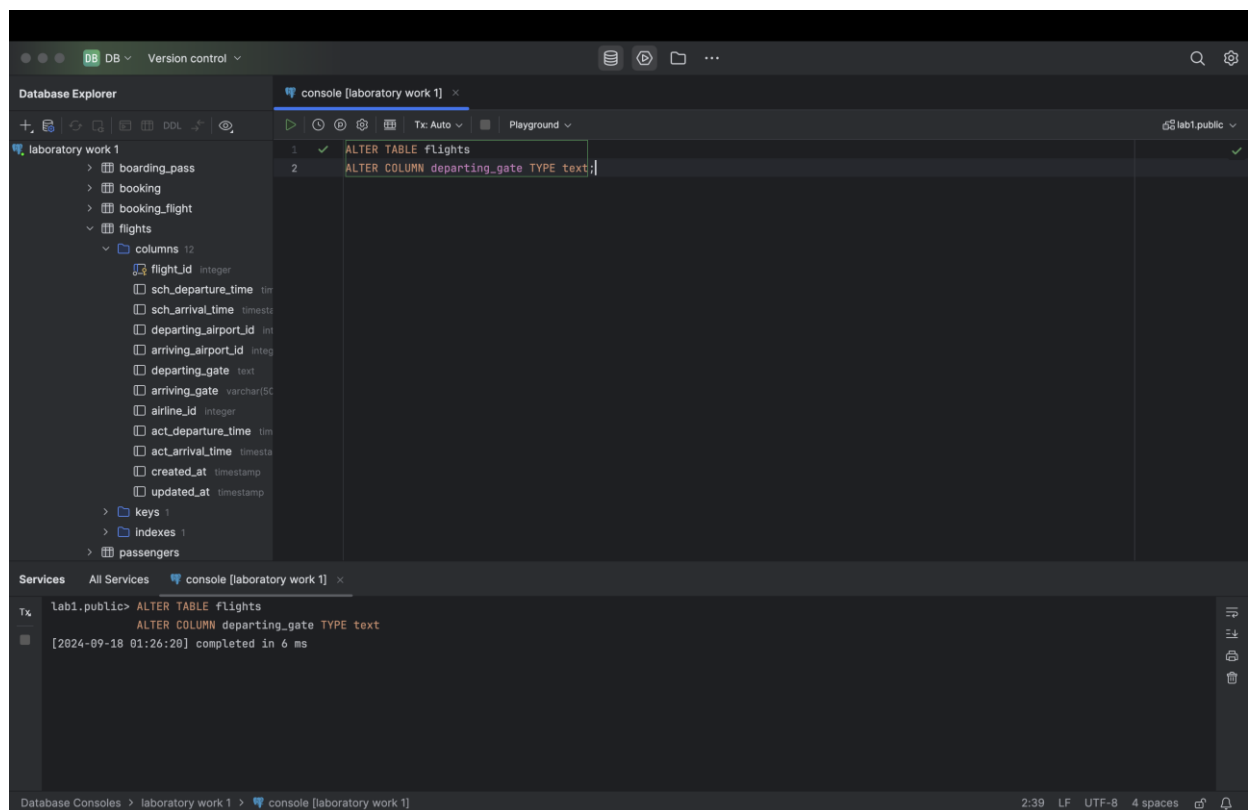
```
1 ALTER TABLE airline_info RENAME TO airline;
```

```
lab1.public> ALTER TABLE airline_info RENAME TO airline
[2024-09-18 01:18:21] completed in 2 ms
```

5. Rename column price to ticket_price (10%)

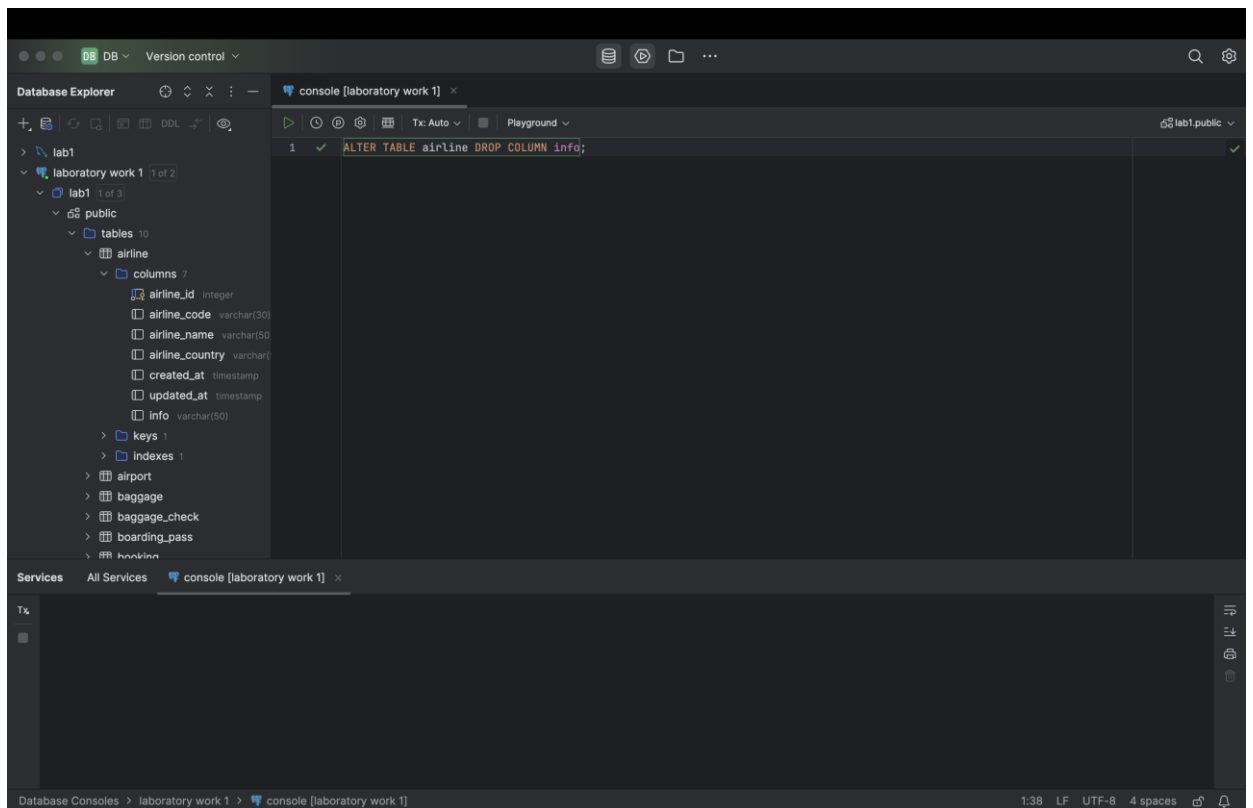


6. Change data type of departing_gate(varchar(50)) from varchar(50) to text (10%);



7. Drop the column info(varchar(50)) from the airline table (10%).

BEFORE DROP:



AFTER DROP:

