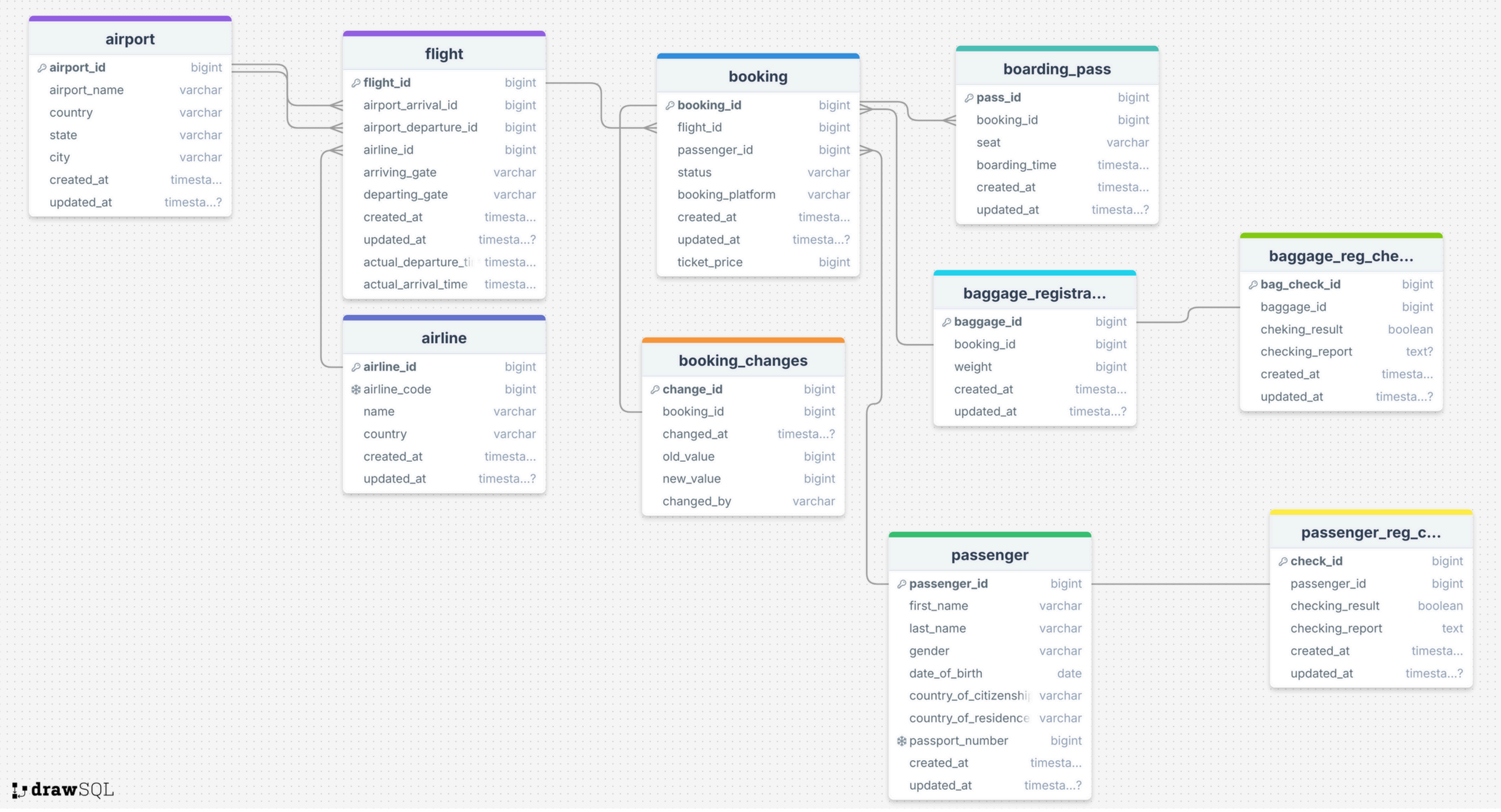
airport
airport_id bigint
airport_name varchar
country varchar
state varchar
city varchar
created_at timesta...
updated_at timesta...?
flight
flight_id bigint
airport_arrival_id bigint
airport_departure_id bigint
airline_id bigint
arriving_gate varchar
departing_gate varchar
created_at timesta...
updated_at timesta...?
actual_departure_ti timesta...
actual_arrival_time timesta...
airline
airline_id bigint
airline_code bigint
name varchar
country varchar
created_at timesta...
updated_at timesta...?
booking
booking_id bigint
flight_id bigint
passenger_id bigint
status varchar
booking_platform varchar
created_at timesta...
updated_at timesta...?
ticket_price bigint
booking_changes
change_id bigint
booking_id bigint
changed_at timesta...?
old_value bigint
new_value bigint
changed_by varchar
boarding_pass
pass_id bigint
booking_id bigint
seat varchar
boarding_time timesta...
created_at timesta...
updated_at timesta...?
baggage_registra...
baggage_id bigint
booking_id bigint
weight bigint
created_at timesta...
updated_at timesta...?
baggage_reg_che...
bag_check_id bigint
baggage_id bigint
cheking_result boolean
checking_report text?
created_at timesta...
updated_at timesta...?
passenger
passenger_id bigint
first_name varchar
last_name varchar
gender varchar
date_of_birth date
country_of_citizenshi varchar
country_of_residence varchar
passport_number bigint
created_at timesta...
updated_at timesta...?
passenger_reg_c...
check_id bigint
passenger_id bigint
checking_result boolean
checking_report text
created_at timesta...
updated_at timesta...?
drawSQL

Lee Nikita

Lab-1

ENTITIES

1. airport
2. flight
3. airline
4. booking
5. booking changes
6. boarding pass
7. baggage reg
8. passenger
9. baggage reg check
10. passenger reg check

ATTRIBUTES OF EACH ENTITY

Each entity has its **id** - unique identifier. Its required, to avoid duplicates and used to create relations.

Also entites have **created_at and updated_at** fields to track these values. Timestamp type is used to collect both date and time with its time zone.

Updated_at is nullable, because it may or may not be updated, while **created_at** is required for each.

For relations in some entities created a **foreign key attributes**, called same as id of main table for convenience.

In checking tables, **checking_result** is boolean type, because it could be either pass or not. Then I’ve added **checking report**, if something was denied. Also report is nullable, because it could be or not (not required).

ATTRIBUTES OF EACH ENTITY

In some entities, there are some just **unique values** like passport_number or airport_code.

RELATIONS

Firstly, airport --- fllight relations. Many flights could arrive or depart in same airport: airport → flight (1:N) for both departure id and arrival id.

Flight → airlines (N:1) because many flights could be on one airline.

Flight → booking (1:N) because many bookings could be reserved on one flight.

Booking → booking_changes (1:1) when booking changes it could affect only on single booking.

RELATIONS

Booking → boarding_pass (1:N) on one booking could be many passes on board.

Booking → baggage_reg (1:N) one booking can have zero or many bags.

Booking → passenger (1:N) one booking can have zero or many passengers.

Booking → passenger (1:N) one booking can have zero or many passengers.

Baggage_reg → baggage_reg_check (1:1) each baggage checked undividually

Passenger → passenger_reg_check (1:1) each passenger checked undividually