

Laboratory work #2

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

DDL

1. Create following tables with corresponding attributes:

- **Airline_info:** airline_id (int), airline_code (varchar (30)), airline_name (varchar(50)), airline_country (varchar(50)), created_at(timestamp), updated_at(timestamp), info (varchar(50)) ;
- **Airport:** airport_id(int), airport_name (varchar(50)), country (varchar(50)), state (varchar(50)), city (varchar(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;

4. Define for all attributes not null constraint;

5. Rename airline_info table to airline;

6. Rename column price to ticket_price in booking table;

7. Change data type of departing_gate from varchar(50) to text;
8. Drop the column info(varchar(50)) from the airline table.
9. Make a relationship between following tables:
 - Passengers with Security_check, Booking, Baggage_check by passenger_id;
 - Booking with Baggage_check, Baggage, Boarding_pass, Booking_flight by booking_id;
 - Flights with Booking_flight by flight_id;
 - Airport with Flights by departing_airport_id;
 - Airport with Flights by arriving_airport_id;
 - Airline with Flights by airline_id;

DML

1. Generate and insert 200 random rows in your airport database.
2. Add a new airline named "KazAir" based in "Kazakhstan" to the airline table.
3. Update the airline country "KazAir" to "Turkey".
4. Add three airlines at once: "AirEasy" in "France", "FlyHigh" in "Brazil" and "FlyFly" in "Poland".
5. Delete all flights whose arrival in 2024 year.
6. Increase the price of all tickets in booking table for flights by 15%.
7. Delete all tickets where price is less than 10000.