```
--lab4
--1)
SELECT UPPER(airline_name) AS airline_name FROM Airline;
--2)
SELECT REPLACE(airline_name, 'Air', 'Aero') AS airline_name FROM Airline;
--3)
SELECT flight_id FROM Flights WHERE airline_id IN (1, 2);
--4)
SELECT airport_name FROM Airport
WHERE airport_name ILIKE '%Reginal%' AND airport_name ILIKE '%Air%';
--5)
SELECT first_name, last_name, TO_CHAR(date_of_birth, 'Month DD, YYYY')
AS Formatted FROM Passengers;
--6)
SELECT flight_id FROM Flights
WHERE act_arrival_time > sch_arrival_time;
--7)
SELECT first_name, last_name,
CASE
   WHEN DATE_PART('year', AGE(date_of_birth)) BETWEEN 18 AND 35 THEN 'Young'
```

```
WHEN DATE_PART('year', AGE(date_of_birth)) BETWEEN 36 AND 55 THEN 'Adult'
END AS age_group FROM Passengers;
select * from booking;
--8)
SELECT booking_id, ticket_price,
CASE
   WHEN ticket_price < 20000 THEN 'cheap'
   WHEN ticket_price BETWEEN 21000 AND 35000 THEN 'medium'
   ELSE 'expensive'
END AS price_category FROM Booking;
--9)
SELECT airline_country, COUNT(*) AS airline_count FROM Airline
GROUP BY airline_country;
--10)
SELECT flight_id, sch_arrival_time, act_arrival_time FROM Flights
WHERE act_arrival_time > sch_arrival_time;
-- lab5
--1)
ALTER TABLE Passengers
ADD CONSTRAINT chk_passenger_age_min_10
```

```
CHECK (DATE_PART('year', AGE(date_of_birth)) >= 10);
--2)
ALTER TABLE Booking
ADD CONSTRAINT chk_ticket_price_range
CHECK (ticket_price BETWEEN 0 AND 50000);
--3)
ALTER TABLE Baggage
ADD CONSTRAINT chk_baggage_weight
CHECK (weight_in_kg BETWEEN 1 AND 23);
--4)
ALTER TABLE Airport
ADD CONSTRAINT chk_airport_name_length
CHECK (CHAR_LENGTH(airport_name) >= 10);
--5)
ALTER TABLE Airline
ADD CONSTRAINT uq_airline_code UNIQUE (airline_code);
ALTER TABLE Passengers
ADD CONSTRAINT uq_passport_number UNIQUE (passport_number);
ALTER TABLE Airport
ADD CONSTRAINT uq_airport_name UNIQUE (airport_name);
```

```
ALTER TABLE Booking
ADD CONSTRAINT uq_booking UNIQUE (flight_id, passenger_id);
--6)
ALTER TABLE Passengers
ADD CONSTRAINT chk_gender_age
CHECK (
 (gender = 'Male' AND DATE_PART('year', AGE(date_of_birth)) >= 18)
OR (gender = 'Female' AND DATE_PART('year', AGE(date_of_birth)) >= 19)
);
--7)
ALTER TABLE Passengers
ADD CONSTRAINT chk_country_age
CHECK (
 (country_of_citizenship = 'Kazakhstan' AND DATE_PART('year', AGE(date_of_birth)) >=
18)
OR (country_of_citizenship = 'France' AND DATE_PART('year', AGE(date_of_birth)) >=
17)
OR (country_of_citizenship NOT IN ('Kazakhstan', 'France') AND DATE_PART('year',
AGE(date_of_birth)) >= 19)
);
--8)
ALTER TABLE Booking
ADD COLUMN ticket_discount DECIMAL(5,2);
```

ALTER TABLE Booking

ADD CONSTRAINT chk_ticket_discount

```
CHECK (
```

```
(created_at >= '2024-01-01' AND ticket_discount = ticket_price * 0.05)
```

OR (created_at < '2024-01-01' AND ticket_discount = ticket_price * 0.10)

);

1)

















