Documentation for DB for Airport

List of entities:

- Airport
- Airline compan
- Flight
- Booking
- Booking update
- Passenger
- Ticket
- Baggage
- Baggage security check info
- Passenger security check info

Required Attributes of each entity:

Airport: id(PK), name, country, state, city, date_created, date_updated

Airline company: id(PK), name, country, date_created, date_updated

Flights: id(PK), airline id(FK), departing airport id(FK), arriving airport id(FK), departing gate, arriving gate, scheduled_departure_time, scheduled_arrival_time, actual_departure_time, actual_arrival_time, date_created, date_updated

Bookings: id(PK), status, booking_platform, price, date_created, date_updated

Booking tracked changes: id(PK), booking id(FK), description

Tickets: id(PK), booking id(FK), flight_id(FK), passenger_id(FK), seat number, boarding time, date_created, date_updated

Passenger info: id(PK), first name, last name, gender, birth date, country of citizenship, country of residence, passport number, date_created, date_updated

Passenger security check info: id(PK) , passenger id(FK), status, date created, date updated

Baggage: id(PK), ticket id(FK), weight, date_created, date_updated

Baggage security check info: id(PK), baggage id(FK), check status, date_created, date_updated

Relationships:

Airport(one)->flight(many)
Airline(one)->flight(many)
Flight(one)->tickets(many)
Booking(one)->tickets(many)
Passenger(one)->tickets(many)
Ticket(one)->baggages(many)
Passenger(one)->Passenger_check(one)
Baggage(one)->baggage_check(one)

Link to figma ERD diagram: https://www.figma.com/board/62ICYvy04UCSttzTFtYNsz/lab1-ERD?t=jkuvxI9oCdxRrhx1-6

1 booking can have many amending updates

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Booking_update

id	INT	PK
booking	INT	FK
description	VARCHAR	
date_cr	DATETIME	
date_upd	DATETIME	

Booking

id	INT	PK
booking_platform	VARCHAR	
price	INT	
status	VARCHAR	
date_cr	DATETIME	
date_upd	DATETIME	

Airline cimpany

id	INT	PK
name	VARCHAR	
country	VARCHAR	
date_cr	DATETIME	
date_upd	DATETIME	

Airport

id	INT	PK
name	VARCHAR	
country	VARCHAR	
state	VARCHAR	
city	VARCHAR	
date_cr	DATETIME	
date_upd	DATETIME	

Flight

id	INT	PK
airline	INT	FK
dept_airport	INT	FK
arr_airport	INT	FK
dept_gate	VARCHAR	
arr_gate	VARCHAR	
sch_dept_time	DATETIME	
sch_arr_time	DATETIME	
act_dept_time	DATETIME	
act_arr_time	DATETIME	
date_cr	DATETIME	
date_upd	DATETIME	

Ticket

id	INT	PK
flight	INT	FK
booking	INT	FK
passenger	INT	FK
seat_number	INT	
boarding_time	DATETIME	
date_cr	DATETIME	
date_upd	DATETIME	

Passenger

id	INT	PK
firstname	VARCHAR	
lastname	VARCHAR	
gender	VARCHAR	
birthdate	DATETIME	
citizenship	VARCHAR	
residence	VARCHAR	
passport_number	VARCHAR	
date_cr	DATETIME	
date_upd	DATETIME	

Passenger_check

id	INT	PK
passenger	INT	FK
status	VARCHAR	
date_cr	DATETIME	
date_upd	DATETIME	

1 passenger can have 1 check for 1 flights. And vice-versa

1 baggage can have 1 baggage check

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Baggage

id	INT	PK
ticket	INT	FK
weight	INT	
date_cr	DATETIME	
date_upd	DATETIME	

Baggage_check

id	INT	PK
baggage	INT	FK
status	INT	
date_cr	DATETIME	
date_upd	DATETIME	

1 flight can have 1 airline 1 flight can have 1 dept and 1 arr airport

1 airline can have many flights 1 airport can be dept&arr for many flights

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1 flight has many tickets 1 booking can have many tickets(different flights & many persons) 1 passenger can have many tickets (extra seats, different flights)

1 ticket have only 1 flight, 1 booking, 1 passenger

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