Entity-Relationship Diagram

AIRPORT
PK	airport_id
	airport_name
	airport_name
	state
	city
	created_at
	updated_at

Flight
PK	flight_id
	departure_gate
	arrival_gate
	scheduled_departure
	scheduled_arrival
	actual_departure
	actual_arrival
FK	airline_id
FK	departure_airport_id
FK	arrival_airport_id
	created_at
	updated_at

Airline
PK	airline_id
	airline_code
FK	name
	country
	created_at
	updated_at

BoardingPass
PK	boarding_pass_id
FK	booking_id
	seat
	boarding_time
	created_at
	updated_at

Passenger
PK	passenger_id
	first_name
	last_name
	gender
	date_of_birth
	country_citizenship
	country_residence
	passport_number
	created_at
	updated_at

Booking
PK	booking_id
FK	flight_id
FK	passenger_id
	status
	booking_platform
	ticket_price
	created_at
	updated_at

SecurityCheck
PK	security_check_id
FK	passenger_id
	check_results
	created_at
	updated_at

Baggage
PK	baggage_id
FK	booking_id
	weight
	created_at
	updated_at

BaggageCheck
PK	baggage_check_id
FK	booking_id
	passenger_id
	check_results
	created_at
	updated_at

Airport: airport_id (PK), name, country, state, city, created_at, updated_at.
Airline: airline_id (PK), code, name, country, created_at, updated_at.
Flight: flight_id (PK), gates, times, airline_id (FK), departure_airport_id (FK),
arrival_airport_id (FK), created_at, updated_at.
Passenger: passenger_id (PK), name, gender, dob, citizenship, residence, passport,
created_at, updated_at.
Booking: booking_id (PK), flight_id (FK), passenger_id (FK), status, platform, price,
created_at, updated_at.
BoardingPass: boarding_pass_id (PK), booking_id (FK), seat, boarding_time, created_at,
updated_at.
Baggage: baggage_id (PK), booking_id (FK), weight, created_at, updated_at.
BaggageCheck: baggage_check_id (PK), baggage_id (FK), passenger_id (FK), result,
created_at, updated_at.
SecurityCheck: security_check_id (PK), passenger_id (FK), result, created_at, updated_at.

Entity – rectangle
Attribute – inside entity box
PK – Primary Key
FK – Foreign Key
Relationship – line between entities
Cardinality – 1:1, 1:M, M:N
Participation – Mandatory / Optional