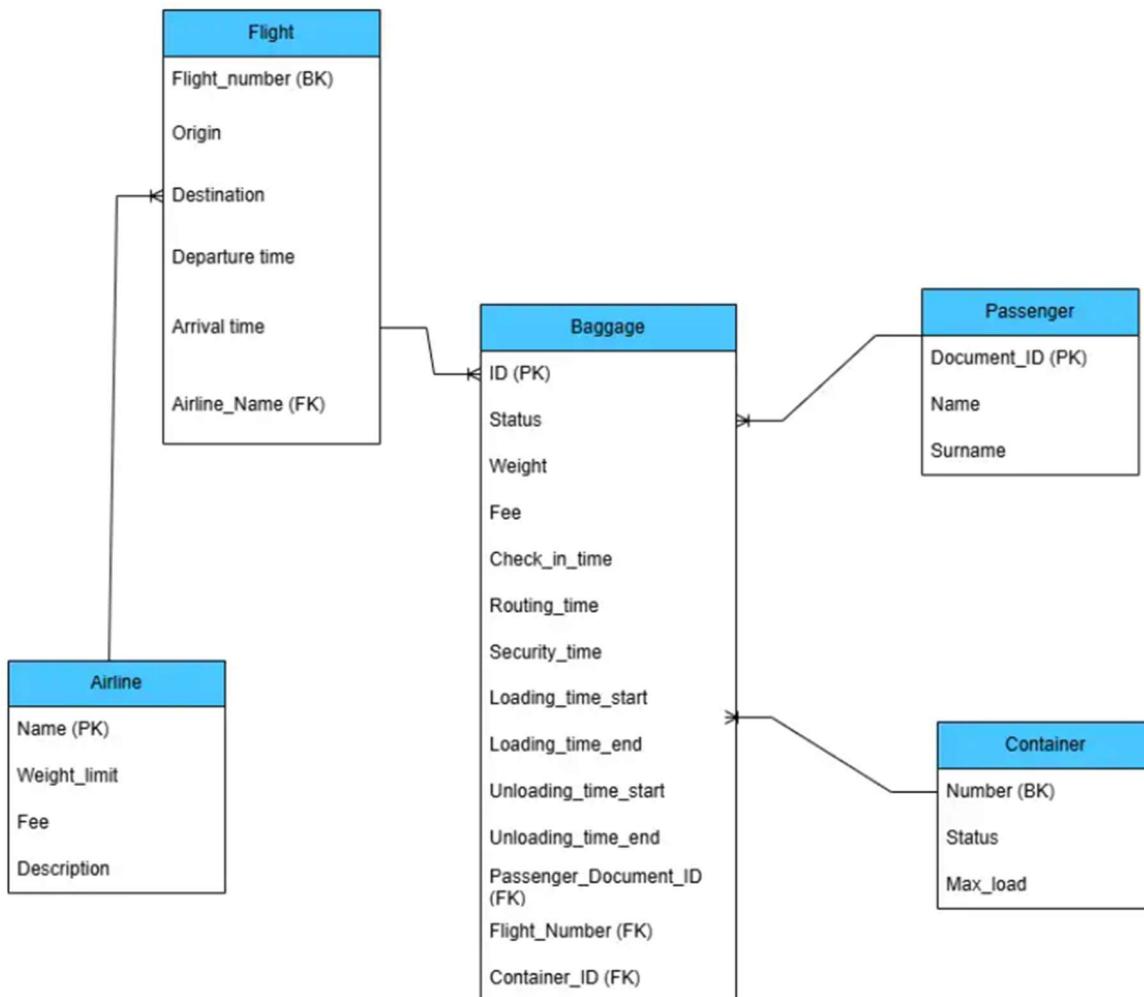


# Airport Baggage Management System Database Documentation

## 1. Overview

This document provides a high-level explanation of the relational database schema designed for managing **airport baggage**. The structure facilitates the tracking of baggage from check-in to loading, ensuring efficient and secure luggage handling.

## 2. Entity Descriptions and Relationships



**Table: Passenger**

Column	Type	Key	Description
Document_ID	String	PK	Unique identifier for the passenger's travel document.
Name	String		The passenger's given name.
Surname	String		The passenger's surname.

**Table: Airline**

Column	Type	Key	Description
<b>Name</b>	String	PK	The official name of the airline.
<b>Weight_limit</b>	Decimal		The maximum allowable baggage weight limit defined by the airline.
<b>Fee</b>	Decimal		The standard fee charged by the airline for overweight baggage.
<b>Description</b>	String		A brief description of the airline.

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**Table: Container**

Column	Type	Key	Description
<b>Number</b>	String	BK	Number assigned to the baggage container.
<b>Status</b>	String		The current operational status of the container.
<b>Max_load</b>	Integer/Decimal		The maximum weight or capacity the container can hold.

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**Table: Flight**

Column	Type	Key	Description
<b>Flight_number</b>	String	BK	The unique flight number.
<b>Origin</b>	String		The city and country of departure.
<b>Destination</b>	String		The city and country of arrival.
<b>Departure_time</b>	Datetime		The scheduled departure time.
<b>Arrival_time</b>	Datetime		The scheduled arrival time.
<b>Airline_Name</b>	String	FK	Links to the Airline name.

**Table: Baggage**

Column	Type	Key	Description
<b>ID</b>	Integer	PK	Unique identifier for the individual piece of baggage.
<b>Status</b>	String		The current status of the baggage (e.g., 'Checked-in', 'Loaded', 'Claimed').
<b>Weight</b>	Decimal		The actual measured weight of the baggage.
<b>Fee</b>	Decimal		Any associated fee charged for this baggage (e.g., overweight fee).
<b>Check_in_time</b>	Datetime		Time the baggage was checked in by the passenger.
<b>Routing_time</b>	Datetime		Time spent routing the bag.
<b>Security_time</b>	Datetime		Time the baggage cleared security screening.
<b>Loading_time_start</b>	Datetime		Time when the baggage began being loaded.
<b>Loading_time_end</b>	Datetime		Time when the baggage finished being loaded.
<b>Unloading_time_start</b>	Datetime		Time when the baggage began being unloaded.
<b>Unloading_time_end</b>	Datetime		Time when the baggage finished being unloaded.
<b>Passenger_Document_ID</b>	String	FK	Links to the Document_ID in the <b>Passenger</b> table.
<b>Flight_Number</b>	String	FK	Links to the Flight_number in the <b>Flight</b> table.
<b>Container_ID</b>	Integer	FK	Links to the Number in the <b>Container</b> table.