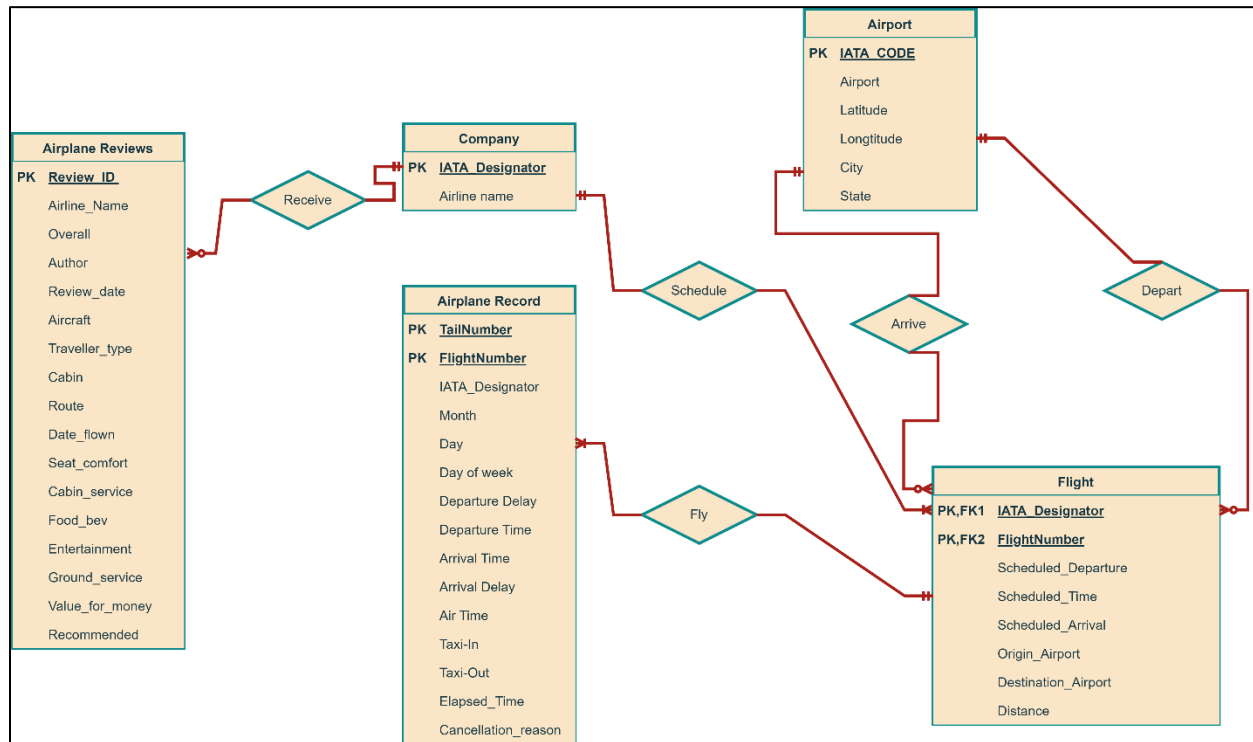


Flight Status Visualizing Map

- URL version Diagram



Airport ↔ Flight:

- We think each airport can allow multiple airplanes to arrive.
- We think each airplane arrives at one airport.

Airport ↔ Flight:

- We think each airport can allow multiple airplanes to depart.
- We think each airplane departs from one airport.

Company ↔ Flight:

- We think each company has multiple flights schedule.
- But there each flight schedule belongs to only one company.

Airplane_Record ↔ Flight:

- Each flight has several fighting information.
- Each fighting information belongs to only one flight.

Company ↔ Airplane_Reviews:

- Each air company can receive multiple airplane reviews.
- Each airplane reviews points to only one company.

- DDL SQL Command

Company(IATA_Designator, AirplaneName)
Airport(IATA_Code, Airport, Latitude, Longitude, City, State)
City(City, State)
Flight(IATA_Designator, FlightNumber, Origin_Airport, Destination_Airport, Schedule_Departure, Scheduled_Time, Scheduled_Arrival, Distance)
Airplane_Record(TailNumber, FlightNumber, IATA_Designator, Month, Day, DayOfWeek, Departure_Time, Departure_Delay, Taxi_Out, Elapsed_Time, Air_Time, Taxi_In, Arrival_Time, Arrival_Delay)
Airline_Reviews(Review_ID, Airline_Name, Overall, Author, Review_date, Aircraft, Traveller_type, Cabin, Route, Date_flown, Seat_comfort, Cabin_service, Food_beve, Entertainment, Ground_service, Value_for_money, Recommended)

```
CREATE TABLE Company
(
  IATA_Designator VARCHAR(2) NOT NULL,
  AirplaneName VARCHAR(100),

  PRIMARY KEY ( IATA_Designator)
);
```

```
CREATE TABLE Airport
(
  IATA_Code VARCHAR(100) NOT NULL,
  Airport VARCHAR(500),
  City VARCHAR(500) NOT NULL,
  State VARCHAR(100) NOT NULL,
  Latitude DOUBLE,
  Longitude DOUBLE,
```

```
PRIMARY KEY (IATA_Code)
);
```

```
CREATE TABLE Airplane_Record
(
```

```
FlightNumber INT NOT NULL,  
IATA_Designator VARCHAR(2) NOT NULL,  
Month VARCHAR(512) NOT NULL,  
Day VARCHAR(512) NOT NULL,  
DayOfWeek VARCHAR(512) NOT NULL,  
TailNumber VARCHAR(100) NOT NULL,  
Departure_Time INT,  
Departure_Delay INT,  
Taxi_Out INT,  
Elapsed_Time INT,  
Air_Time INT,  
Taxi_In INT,  
Arrival_Time INT,  
Arrival_Delay INT,  
  
PRIMARY KEY (TailNumber, FlightNumber)  
);
```

```
CREATE TABLE Flight  
(  
IATA_Designator VARCHAR(3) NOT NULL,  
FlightNumber INT NOT NULL,  
Origin_Airport VARCHAR(5) NOT NULL,  
Destination_Airport VARCHAR(5) NOT NULL,  
Schedule_Departure INT,  
Scheduled_Time INT,  
Scheduled_Arrival INT,  
Distance INT,  
  
PRIMARY KEY (IATA_Code, FlightNumber),  
FOREIGN KEY (Origin_Airport) REFERENCES Airport (IATA_Code),  
FOREIGN KEY (Destination_Airport) REFERENCES Airport (IATA_Code)  
);
```

```
CREATE TABLE Airline_Reviews
(
Review_ID INT NOT NULL,
Airline_Name VARCHAR(100) NOT NULL,
Overall INT,
Author VARCHAR(100),
Review_date VARCHAR(100),
Aircraft VARCHAR(100),
Traveller_type VARCHAR(100),
Cabin VARCHAR(100),
Route VARCHAR(100),
Date_flown VARCHAR(100),
Seat_comfort VARCHAR(100),
Cabin_service VARCHAR(100),
Food_bev VARCHAR(100),
Entertainment VARCHAR(100),
Ground_service VARCHAR(100),
Value_for_money VARCHAR(100),
Recommended VARCHAR(100),

PRIMARY KEY (Review_ID)
);
```