

Exercise 3

SQL:

```
CREATE TABLE Airport
(
IATACode int PRIMARY KEY,
);
CREATE TABLE AircraftType
(
typeId int PRIMARY KEY,
);
CREATE TABLE DailyFlightCombination
(
DFLegId int PRIMARY KEY,
);
CREATE TABLE Flight
(
flightNum int PRIMARY KEY,
);
CREATE TABLE FlightLeg
(
flightLegId int PRIMARY KEY,
);
CREATE TABLE Starts at
(
IATACode int PRIMARY KEY,
flightLegId int FOREIGN KEY
);
CREATE TABLE Ends at
(
IATACode int PRIMARY KEY,
```

```
flightLegId int FOREIGN KEY
);
CREATE TABLE can land
(
IATACode int PRIMARY KEY,
typeId int FOREIGN KEY
);
CREATE TABLE Assigned to
(
typeId int PRIMARY KEY,
DFLegId int FOREIGN KEY
);
CREATE TABLE Part of
(
DFLegId int PRIMARY KEY,
flightLegId int FOREIGN KEY
);
CREATE TABLE Belongs to
(
flightLegId int PRIMARY KEY,
flightNum int FOREIGN KEY
);
```

Table as a result:

Starts at	
PK,FK	<u>flightLegId</u> int
PK,FK	<u>IATACode</u> int

Airport	
PK	<u>IATACode</u> int

can land	
PK,FK	<u>typeId</u> int
PK,FK	<u>IATACode</u> int

DailyFlightCombination	
PK	<u>DFLegId</u> int

FlightLeg	
PK	<u>flightLegId</u> int

Ends at	
PK,FK	<u>flightLegId</u> int
PK,FK	<u>IATACode</u> int

AircraftType	
PK	<u>typeId</u> int

Assigned to	
PK,FK	<u>typeId</u> int
PK,FK	<u>DFLegId</u> int

Belongs to	
PK,FK	<u>flightLegId</u> int
PK,FK	<u>flightNum</u> int

Flight	
PK	<u>flightNum</u> int

Part of	
PK,FK	<u>flightLegId</u> int
PK,FK	<u>DFLegId</u> int