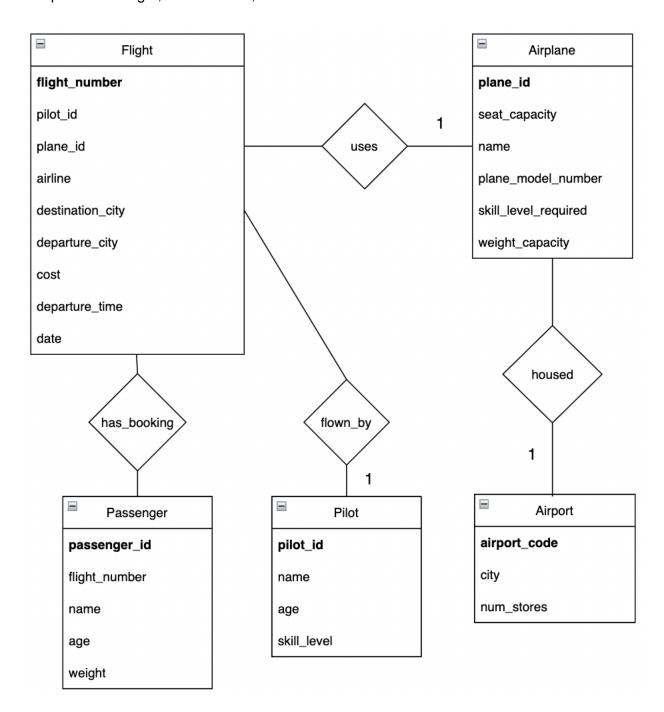
Project Reminder:

My PDA is a database to organize flight information for airway control and general information regarding flights. **flown_by**, **uses**, and **has_booking** relations do not need to be added to the sql database as their keys are already a part of both relational sets. All tables have 3000 rows, except for Passenger, which has 30,000 rows.



Description:

The program is called check_flight_requirements. It ensures that all of the flight requirements have been met, before the flight can take off. The user input (written in the script at the top) is the flight_number, the output is a boolean TRUE/FALSE whether or not the flight satisfies all of the requirements and is cleared for flight. The requirements are as such:

- The total number of passengers on the flight is less than or equal to the plane's seat capacity
- The total weight of all of the passengers on the flight is less than or equal to the weight_capacity of the plane
- The pilots skill level is greater than or equal to the plane's skill level required

Code:

```
num_passengers_int = myc.fetchall()[0][0]
print("Flight Number: {} \n".format(flight number))
print("Seat Capacity Requirement Satisfied: {}".format(req seat capacity))
print("Number of total passengers: {}".format(num passengers int))
print("Plane seat capacity: {} n".format(plane seat capacity int))
print("Weight Requirement Satisfied: {}".format(req weight capacity))
print("Pilot skill level: {}".format(pilot skill level int))
print("Plane skill level requires: {} \n".format(plane skill level required int))
```

```
#### END SQL SESSION ####
mydb.commit()
mydb.close()
```

Example Output:

```
Flight Number: AABFJFNZATRXXGO

Seat Capacity Requirement Satisfied: True
Number of total passengers: 15
Plane seat capacity: 108

Weight Requirement Satisfied: True
Total weight of passengers (lbs): 2003
Plane weight capacity (lbs): 16200

Pilot Skill Level Requirement Satisfied: False
Pilot skill level: 3
Plane skill level requires: 6

RESULT: flight AABFJFNZATRXXGO is cleared for flight: False
```