Unhandled Constraints

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Passenger and Pilot Role Enforcement: Every person within the system is only either a pilot or a passenger, but they cannot be not both.

Pilot Requirement for Airbus: Ensure the system allows at least 1 pilot to be assigned to Airbus flights before takeoff.

Pilot Requirement for Boeing: Ensure the system allows at least 2 pilots to be assigned to Boeing flights before takeoff.

Pilot Tax ID Format: Ensure every pilot's taxID within the system follows the format "xxx-xx-xxxx."

Unique Airport Code: Ensure that all of the airport IDs within the system are unique.

Valid Route Leg Sequence: Ensure that each specific leg's departure airport is identical to the previous leg's arrival airport.

Non-Negative Passenger Funds: Ensure the amount of funds that each passenger has is not negative/

Non-negative Flight Distance: Ensure the distance that each flight takes is not negative.

Non-negative Airline Revenue: Ensure the value of the airline revenue is never negative.

Non-negative Airplane Speed: Ensure that the speed of each airplane is never negative.

Non-negative Frequent Flyer Miles: Ensure that the frequent flyer miles are not negative.

Non-negative Pilot's Experience: Ensure that the pilot's experience is never negative.

Passenger Funds Check: Ensure each passenger within the system has sufficient funds to cover the airplane fare before boarding onto the flight.

Frequent Flyer Mile Tracking: Ensure each of the passenger miles increases by the flight leg distance upon completion.

Location Checking for Passengers and Pilots: Ensure every individual within the system is either within an airport or on an airplane.

Flight's Leg Time Addition: Ensure the system's "next_time" attribute is incremented correctly based on the flight's progress.

Boeing Servicing Status: Ensure that the Boeing airplanes are serviced within the last month if they are used for flights.

Airplane Seating Capacity Enforcement: The system should ensure that the total number of people does not exceed the specific airplane's available seating capacity.