Intro

Tasks in this block are built upon the Flights database: https://postgrespro.ru/education/demodb. Choose the database size based on the space availability.

Task D4

Restore the price information for each flight based on the past bookings, and build the pricing rule table that determines the prices for all upcoming flights.

Task D5

Design the RESTful web service to handle the following requests:

- List all the available source and destination cities
- List all the available source and destination airports
- List the airports within a city
- List the inbound schedule for an airport:
    - Days of week
    - Time of arrival
    - Flight no
    - Origin
- List the outbound schedule for an airport:
    - Days of week
    - Time of departure
    - Flight no
    - Destination
- List the routes connecting two *points*
    - *Point* might be either an *airport* or a *city*. In the latter case we should search for the flights connecting any airports within the city
    - The mandatory “departure date” parameter limits the flights by the ones departing between 0:00:00 of the specified date and 0:00:00 of the next date
    - The “booking class” parameter should be one of the `'Economy', 'Comfort', 'Business'`
    - Additional parameter limits the number of connections: 0 (direct), 1, 2, 3, unbound
- Create a booking for a selected route for a single passenger
- Online check-in for a flight

Task D6

Implement the RESTful web service described above. Consider adding the appropriate indexes to make the requests reasonably fast.