

## 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.