Flight_management_system

- We want to model a system for management of flights and pilots.
- An airline operates flights. Each airline has an ID.
- Each flight has an ID a departure airport and an arrival airport: an airport has a unique identifier.
- Each flight has a pilot and a co-pilot, and it uses an aircraft of a certain type; a flight has also a departure time and an arrival time.
- An airline owns a set of aircrafts of different types.
- An aircraft can be in a working state or it can be under repair.
- In a particular moment an aircraft can be landed or airborne.
- A company has a set of pilots: each pilot has an experience level:1 is minimum, 3 is maximum.
- A type of aeroplane may need a particular number of pilots, with a different role (e.g.: captain, co-pilot, navigator): there must be at least one captain and one co-pilot, and a captain must have a level 3.