Exercise

Develop a ‘simple’ model of a flight reservation system. The model should include:

- A plane (with a unique transponder code) is assigned to each flight (the assignment can be different each day)
- A particular flight number can only be used once a day
- Planes have a bunch of seats, usually identified by a seat number
- A passenger reserves a seat for a particular flight

Include a few key attributes for each entity and relationship as you think is necessary (be creative). Some ideas to consider could include:

- Leg room
- When a reservation was made
- Plane type, manufacturer
- Source/Destination of a flight
- Does the terminal handle international flights?

Obviously the description provided is ambiguous, if you make additional assumptions, clearly state them.

If you have time add the following to the model:

- Some passengers are frequent flyers, and therefore have account numbers and accumulated miles
- Flights are assigned to a gate which is located in one terminal.
- A gate can handle multiple flights each day, and different flights on various days
- There are terminals (usually identified by letters) which contain the gates (usually identified by numbers)