1. For the ER model from the previous week’s discussion section (replicated below), translate the Flights, Planes, and Seat entities along with the uses and has_seats relationships, into relational tables using SQL commands.

2. Functional dependencies:
   a) For the relational schema developed in (1) above, find the set of functional dependencies.
   b) Expand the FDs found above using Armstrong’s axioms (you can omit the trivial and non-interesting dependencies).
   c) You are given two additional conditions as follows:
      i. Each flight has a Boolean attribute “has_first_class”
      ii. Each seat has an additional attribute “seat_color”. Seat colors match the exterior color of the planes.

Can you modify the answers to (1) above using the results obtained here.

3. As an additional exercise convert the remaining model from (1) into relational form.