Team Members

Sergio Vasquez

Darren Cobian

Harry Tran

The following is a check-list for all the required documentation

1. A revised design, based on feedback from the first part. This includes class diagrams and English descriptions of classes and associations.
2. The relation scheme, based on the design and feedback from the second part.
3. English description of all attributes.
4. DDL used to create all the tables
5. DML used to insert the data
6. Queries to produce the reports, as described below
7. Sample output of each of the queries
8. Denormalization information

Business Rules

1. A crew member cannot work for more than one airline. (think about part-time crew: they work for 2-3 airlines)
2. An incident report must include a severity with it. They have an associated severity in the range (1 - 5)
3. The airline cannot have any airplanes do flights that have been in the service more than 30 years. (the airplane should be retired at 30 years old)
4. A pilot must retire and not allowed to be a flight crew member once the reach the age of 65 years old
5. A city can headquarter at most 10 airlines
6. A pilot must have at least 10,000 hours of experience to be a pilot for a international flight

Queries

1. The list of all airlines for a given airport.

2. The list of all flights for a given airline. Sorted by:
   a. starting location

   b. destination

   c. longest flight

   d. shortest flight.

3. Flights that charge for extras (water, etc.)

4. The crew roster for each flight for each airline

5. The trips that are available if you do make one stop over

6. Management reports of mifly information:
   a. arriving flights per city

   b. departing flights per city

   c. list of airlines in each service category

   d. crews that fly multiple flights in a single day

7. A list of all incident reports by flight

8. Flights that are scheduled to depart in three days

9. All flights that arrived in the busiest airport in the last week

10. Flights that departed more than 30 minutes late.

11. Individually designed queries (two per team member)
a.List all planes that are now retired ie >= 30 years of life

b.How many retired pilots per airline

c.Crew and the airlines that they work for

d.Do a query to find all retired pilots

e.Do a query to see the count of airlines a city has to show that no city headquarters

    more than 10 airlines

f.List all pilots doing international flights to ensure that they have over 10000 hours of

experience