Team Members

Kaitryn Fredeluces

Ray Lopez

Eden Akins

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

* Documents From Part I:

1. Class diagram.
2. English description of all classes and associations.
3. Denormalization paragraph(s)

#### Documents From Part II:

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

Queries

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

select \* from airlines where faa\_abbr='LAX';

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

select \* from flights where airline\_name='Jet Blue' order by Dept\_Port ASC;

* 1. destination

select \* from flights where airline\_name='Jet Blue' order by Arr\_Port ASC;

* 1. longest flight

select \* from flights where airline\_name='Jet Blue' order by f\_length DESC;

* 1. shortest flight.

select \* from flights where airline\_name='Jet Blue' order by f\_length ASC;

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

select \* from flights where flight\_num in (select flight\_num from cost where C\_type = 'Water');

1. The crew roster for each flight for each airline

create view CREW\_ROSTER as

select flightcrew.crew\_num, flightcrew.emp\_name, flightcrew.job, flights.flight\_num, flights.airline\_name

from flightcrew

left join flights

on flightcrew.crew\_num=flights.crew\_num

order by flights.flight\_num asc;

select \* from crew\_roster where airline\_name='Jet Blue';

1. The trips that are available if you do make one stop over
2. Management reports of mifly information:
   1. arriving flights per city

create view ARRIVING\_FLIGHTS as

select \* from flights

inner join airports

on flights.arr\_port=airports.faa\_abbr

order by airports.faa\_abbr asc;

select \* from arriving\_flights where area='Los Angeles';

* 1. departing flights per city

create view DEPARTING\_FLIGHTS as

select \* from flights

inner join airports

on flights.dept\_port=airports.faa\_abbr

order by airports.faa\_abbr asc;

select \* from departing\_flights where area='Seattle';

* 1. list of airlines in each service category

select \* from airlines order by fly\_type;

* 1. crews that fly multiple flights in a single day

1. A list of all incident reports by flight

select \* from incidentreports order by flight\_num;

1. Individually designed queries (one per team member)

select \* from incidentreports

inner join flightcrew

on incidentreports.reported\_faa=flightcrew.faa\_num

where flightcrew.emp\_name='Loki Laufeyson';

b. select \* from personnel where e\_type = 'Ground Worker';

c.