[Back to Overview](http://people.senecacollege.ca/wayne.bryan/ols655-20162/project/index.html).

**Stage 1**

Each traveller of the cruise reservation system must have a traveller id, a name (first and last). The traveller id can be up to 30 characters and corresponds to their Oracle username. Allow for up to 40 characters for each of first name and last name. Both first name and last name are mandatory. As this is an on-line reservation system, each traveller must also have an e-mail address. A traveller is also a potential administrator but not all travellers are administrators. There must be a way to identify whether or not a traveller is an administrator.

At any time, a cruise ship can only participate in one cruise, so a cruise has a unique ship id. Each cruise must indicate the ship name and the cruise destinations (e.g. Jamaica, Saint Lucia, Mexico, etc.). A cruise must ultimately have one or more destinations, but may (initially) have no destinations. Allow for a destination of up to 50 characters.

A traveller may reserve a particular cruise. The reservation identifies the cabin number on the cruise ship that the traveller has reserved. The cabin number is a 4-digit number: the first digit of the 4-digit number indicates the deck number (e.g. cabin 1244 is deck 1, cabin 5206 is deck 5). The valid deck numbers are 1 through 9. A traveller may reserve more than one cabin on a cruise ship. A traveller may have reservations on zero, one, or more cruises.

The database must keep track of all possible destinations. A cruise should then be able to indicate which of the valid destinations the cruise sails to (remember, there can be zero, one, or more valid destinations). The name of the destination must be unique (i.e., two destinations cannot have the same name).

Determine what attributes and entities will be required and then do a functional depencency followed by an Entity-Relationship diagram. This should be done individually. Once you have come up with your initial design, you and your partner(s) should compare designs. Combine your ideas to come up with a final design together. This team design will be submitted electronically to the drop box no later than 11:59PM on **Tuesday June 21, 2016** as well as presented to the class on **Wednesday June 22, 2016**. Be sure to include all team member names on the submission. The presentation should be no more than **10 minutes**. All team members must speak during the presentation. You can use the projection system to display power point, adobe pdf, word document, or other media files. The class will evaluate the designs presented and choose the best one.

Please be on time for the presentations as we may not have time for everyone to present if students arrive late.

After the best design has been chosen, each student will be given a copy of the design. In your teams, map the design and produce the appropriate **CREATE TABLE** statements. Submit the create table statements to the digital drop box by 11:59PM on **Friday June 24, 2016**. Only submit one file per team, but be sure to include the names of all members *within* the text file submitted.

This stage is worth **5%** of the 15% project mark.