**Planning**

When I first started the project, I imported the sql files into sequel pro and studied how each table was structured. With this I had a vague idea of how each table relates to each other. I then researched how to read from csv files and insert the data into a mysql database.

**Problems During Implementation**

* In the head csv file, there are some duplicated rows with the same generated CCT\_key. This key needs to be unique and was giving errors when trying to add it to the database. To overcome this, I added to the script that if there is a duplicate CCT\_Key, then update the the row that it is duplicating.
* In the head table tran\_time was blank. To over come this, I had to create a relationship between invoice and head. I Struggled for a while trying to figure out how to pass data from one method to another. Eventually I figured it can be done by updating it in the invoice method with an SQL statement.
* In the Air table, the 3 final columns which values are taken from both head and invoices tables, are not provided in the air table. This was a problem as to import the data into the database they needed to be there as they were set to not null. To overcome this, I inserted placeholder content which would then be overwritten by the next SQL statement.

I have added comments to my code to explain most of the functions.