**Problem Statement 1**

As part of data migration and Integration projects we mostly receive csv format files from our client which needs to be used and load the data to our Omnipresence platform.

As a first step we have to read and load CSV files data into database. To do that we first create a table in database which is similar to the csv file data (number of columns and data type etc).

This is a time taking process and there is a possibility to automate which can reduce time we spend to do this activity today.

Do some research on which tool/technology can be used. On successful completion this will become part of our implementation process.

**High level steps:**

1. Read the columns from the source file
2. Consider all of them as strings(varchar)
3. Length - 250 character
4. Generate the DDL (Database table creation script)
5. Connect to the database and execute. Table structure will be created.
6. Read all the data from the file and load it into that table.

Sample csv format file:



**Problem Statement 2**

As part of data migration and Integration projects we have to do mapping between the source and target systems for each table and column that we have to migrate/integrate with our system. As of now this is a manual activity where we go through every column available in the file and do the mapping.

Till now we have already done mapping for few of our clients and those mapping sheets are available on shared location. We have to look at the possibility on how we can utilize the available mapping files and generate the mapping for our new customers.



**Note:** We will add more scenarios in above two problems as we progress.