

# DB Design

## **Data structure**

In this project, we are going to use the ArrayList data structure as our choice for the linear data structure. The reason behind choosing this is it allows us the range of methods and features provided by this data structure. It makes inserting and updating different data stored in this data structure very easy so this can be used in the query processing and data processing tasks.

Also, we can convert this data structure to mimic behavior of other data structure which makes it very flexible and optimal to use.

## **Custom File Format**

We are going to use a .txt format for storing the data. But in the .txt file, we will divide the columns with the “|” character. This will indicate that the current column has ended, and we are entering the next column.