**Loading The Dataset**

Before you can build a view and analyze your data, you must first connect the data to IBM Cognos. Cognos supports connecting to a wide variety of data, stored in a variety of places.

The data might be stored on your computer in a spreadsheet or a text file, or in a big data, relational, or cube (multidimensional) database on a server in your enterprise.

In our case, we will be using a spreadsheet or text file for making our analysis.

Load data from  test\_data.csv file which consist of 17 Columns with 137057 Rows.

**Data Visualizations**

Using the given dataset, we plan to create various graphs and charts to highlight the insights and visualizations.

* Build the following visualizations
  + Length of Stay for each case of patients.
  + Stay by Patient ID using Column Chart
  + Severity of illness by Patient-Id using Tree Map
  + Age, Department Wise Patient using Table
  + Room Availability by Pie Chart
  + Dashboard Creation
  + Department wise no. of admissions by Waterfall Chart

**Dashboard To Show Number Of Patients**

Build a dash board with the following visuals to present various analytics of Hospitals.

- a Bar Chart to show case number of Cases based on Ward Type

- a Geo Map to show case number of cases based on City, Hospital and Region0

- a Column Chart to show case Number of Cases by each Department

**Age Wise Patients With Department And Severity Filters**

Build a column visual to show case Age wise Number of Patients with Department and Severity Filters.

- a Pie-Chart show case the Number of Cases by Ward Facility type.

**Dashboard With Hierarchy Bubble And Radial Visuals**

Create a Dashboard with Hierarchy Bubble and Radial Visuals as follows:

* Hierarchy Bubble to show case Bed Grade with Number of Cases by Department and Ward-wise.
* Radial chart to show case  Department  wise Admission Deposit Amount.
* **Dashboard Showing Pie, Stacked Bar, Waterfall And Pie Charts**
* Build a Dashboard to show case the following analytical visuals.
* - a Pie-Chart showing Severity of illness by number of cases.
* - a Stacked Bar Chart to visualize Department-wise, Age-wise number of cases.
* - a Waterfall chart visualizing the Department wise number of Patients.
* - a Pie-Chart showing the Availability of Extra rooms with Analytics.
* **Ideation Phase**
* In this milestone you are expected to get started with the Ideation process.
* **Literature Survey On The Selected Project & Information Gathering**
* In this activity you are expected to gather/collect the relevant information on project usecase, refer the existing solutions, technical papers, research publications etc.
* **Prepare Empathy Map**
* In this activity you are expected to prepare the empathy map canvas to capture the user Pains & Gains, Prepare list of problem statements.
* **Ideation**
* In this activity you are expected to list the ideas (at least 4 per each team member) by organizing the brainstorming session and prioritize the top 3 ideas based on the feasibility & importance.
* **Project Design Phase – I**
* From this milestone you will be starting the project design phase. You are expected to cover the activities given.
* **Proposed Solution**
* In this activity you are expected to prepare the proposed solution document, which includes the novelty, feasibility of idea, business model, social impact, scalability of solution, etc.
* **Problem Solution Fit**
* In this activity you are expected to prepare problem - solution fit document and submit for review.
* **Solution Architecture**
* In this activity you are expected to prepare solution architecture document and submit for review.
* **Project Design Phase -II**
* From this milestone you will be continue working on the project design phase. You are expected to cover the activities given.
* **Customer Journey**
* Prepare the customer journey maps to understand the user interactions & experiences with the application (entry to exit).
* **Functional Requirement**
* In this activity you are expected to prepare the functional requirement document.