

# **PROJECT DEVELOPMENT PHASE**

## **SPRINT DELIVERY -1**

**TEAM ID : PNT2022TMID54325**

**BATCH NO : B8-2A4E**

**PROJECT : Analytics for Hospitals Health-Care Data**

**DATE : 16 NOV 2022**

# Project Development Phase

## **Sprint-1:**

- **Data Collection**
- **Loading of data**
- **Data Preparation**

## **Sprint-2:**

- **Data Exploration**
- **Data Visualization**

## **Sprint-3:**

- **Dashboard Creation**

## **Sprint-4:**

- **Report Creation**
- **Story Creation**

# 1. DATA COLLECTION

## HOSPITAL DATA SET

[https://drive.google.com/drive/folders/1qozDgfVw04hGS8Di\\_SFhUNdUKUdjkhT?usp=sharing](https://drive.google.com/drive/folders/1qozDgfVw04hGS8Di_SFhUNdUKUdjkhT?usp=sharing)

## UNDERSTANDING THE DATA

This project is based on understanding the Hospital dataset .

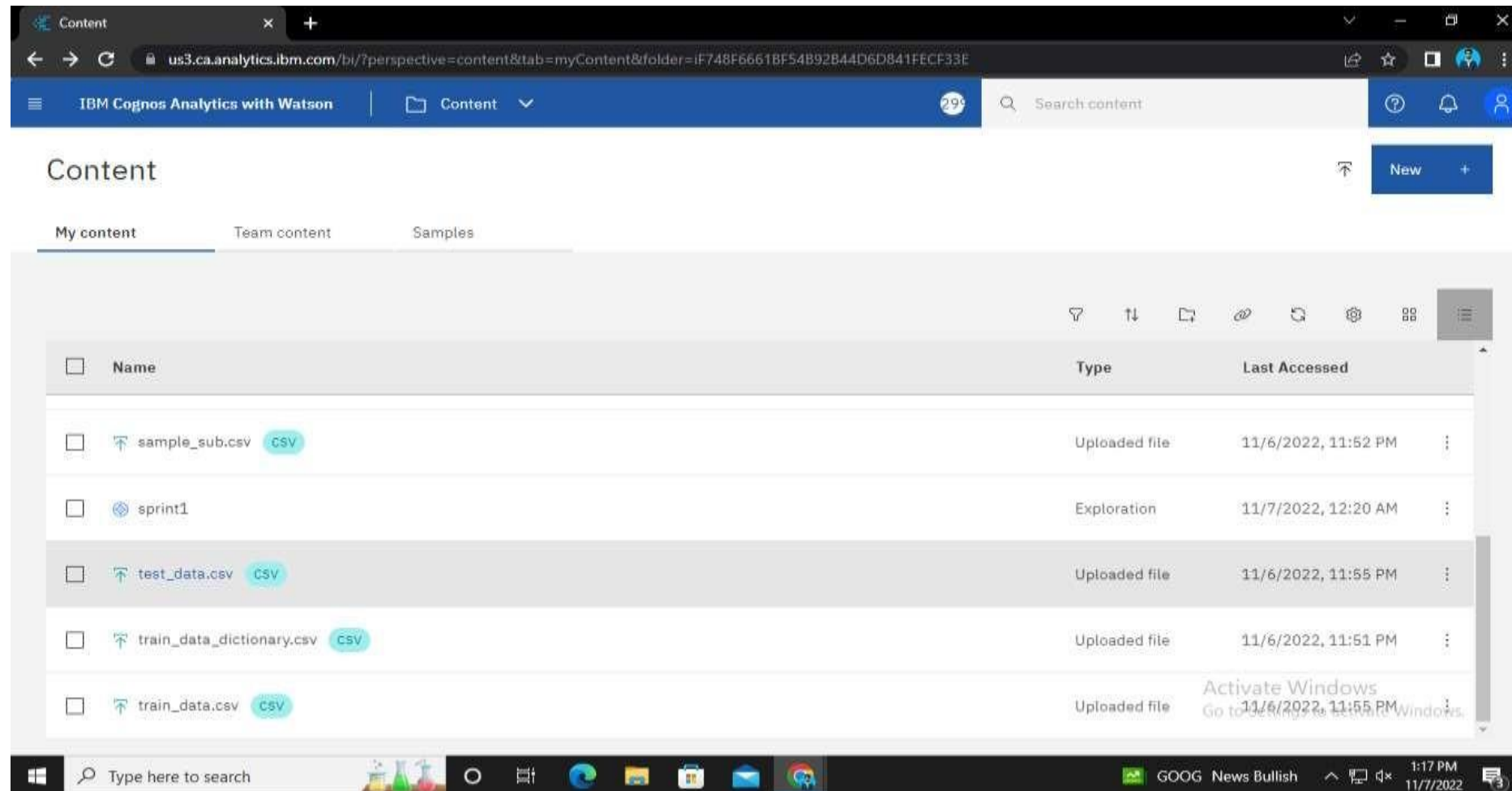
The data is spread across 3 data files (csv) and one data dictionary enclosed.

- 1.Test\_data.csv
- 2.Sample\_sub.csv
- 3.Train\_data\_dictionary.csv
- 4.Train\_data.csv

The primary data file we use is **test\_data.csv** consist of 17 Columns with 137057 Rows.

## 2. LOADING OF DATA

- ❖ Connect the data to IBM Cognos.
- ❖ Cognos supports connecting to a wide variety of data, stored in a variety of places.
- ❖ Loading of the data set in IBM Cognos is important for analyzing.



3.

## DATA PREPARATION

The screenshot displays the IBM Cognos Analytics with Watson interface. The top navigation bar includes the IBM logo, the text "IBM Cognos Analytics with Watson", and a search bar. The main content area is divided into a left sidebar and a central grid view. The sidebar shows a "Data module" section with a search bar and a list of data modules, including "test\_data.csv". The central grid view displays the data from "test\_data.csv" in a table format with 11 rows and 6 columns: Row Id, case\_id, Hospital\_code, Hospital\_type\_code, City\_Code\_Hospital, and Hospital\_region\_code. The data is as follows:

Row Id	case_id	Hospital_code	Hospital_type_code	City_Code_Hospital	Hospital_region_code
1	318439	21	c	3	Z
2	318440	29	a	4	X
3	318441	26	b	2	Y
4	318442	6	a	6	X
5	318443	28	b	11	X
6	318444	23	a	6	X
7	318445	26	b	2	Y
8	318446	25	e	1	X
9	318447	23	a	6	X
10	318448	23	a	6	X
11	318449	10	e		X

The bottom of the screen shows the Windows taskbar with the search bar, task view button, and several application icons. The system clock indicates the time is 1:21 PM on 11/7/2022, and the weather is 31°C Cloudy.

# • Replacing NULL into values

IBM Cognos Analytics with Watson

\* New data module

Search content

Properties

Data module

Grid Relationships Custom tables

rd_Type	Ward_Facility_Code	Bed Grade	patientid	City_Code_Patient	Type of Admission
	A	2	17006	2	
	F	2	17006	2	
	D	4	17006	2	
	F	2	17006	2	
	F	2	17006	2	
	F	2	17006	2	
	D	2	17006	2	
	E	3	95946	Null	
	F	3	95946	Null	Trauma
	F	4	95946	Null	Urgent
	E	2	95946	Null	Trauma

Filter...  
Create calculation...  
Create data group...  
Create navigation path...  
Hide from users  
Remove  
Format data...  
Clean...  
Sort descending  
Sort ascending  
Properties

Activate Windows  
Go to Settings to activate Windows.

Type here to search

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11/7/2022

New data module

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IBM Cognos Analytics with Watson

New data module

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Properties

Data module

🔍 Search

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▶ abc Age

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Grid

Relationships

Custom tables

rd_Type	Ward_Facility_Code	Bed Grade	patientid	City_Code_Patient	Type of Admission
				2	Emergency
				2	Trauma
				2	Emergency
				2	Trauma
				2	Trauma
				2	Trauma
				2	Trauma
				Null	Emergency
	F	3	95946	Null	Trauma
	F	4	95946	Null	Urgent
	E	2	95946	Null	Trauma

Clean - City\_Code\_Patient

NULL values

☐ Replace this value with NULL

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New data module

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IBM Cognos Analytics with Watson

New data module

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Search content

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Data module

🔍 Search

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Grid

Relationships

Custom tables

↕	ient	Ward_Type	Ward_Facility_Code	Bed Grade	patientid	City_Code_Patient	T
	gy	S	A	2	17006	2	
	gy	S	F	2	17006	2	
	gy	Q	D	4	17006	2	
	gy	Q	F	2	17006	2	
	gy	R	F	2	17006	2	
	gy	Q	F	2	17006	2	
	gy	Q	D	2	17006	2	
	gy	S	E	3	95946	5	
	gy	Q	F	3	95946	5	
	gy	Q	F	4	95946	5	
	gy	Q	E	2	95946	5	

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