

# **PROJECT DEVELOPMENT PHASE**

## **SPRINT DELIVERY -1**

**TEAM ID : PNT2022TMID28983**

**BATCH NO : B5-5M1E**

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

**DATE : 10 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 .

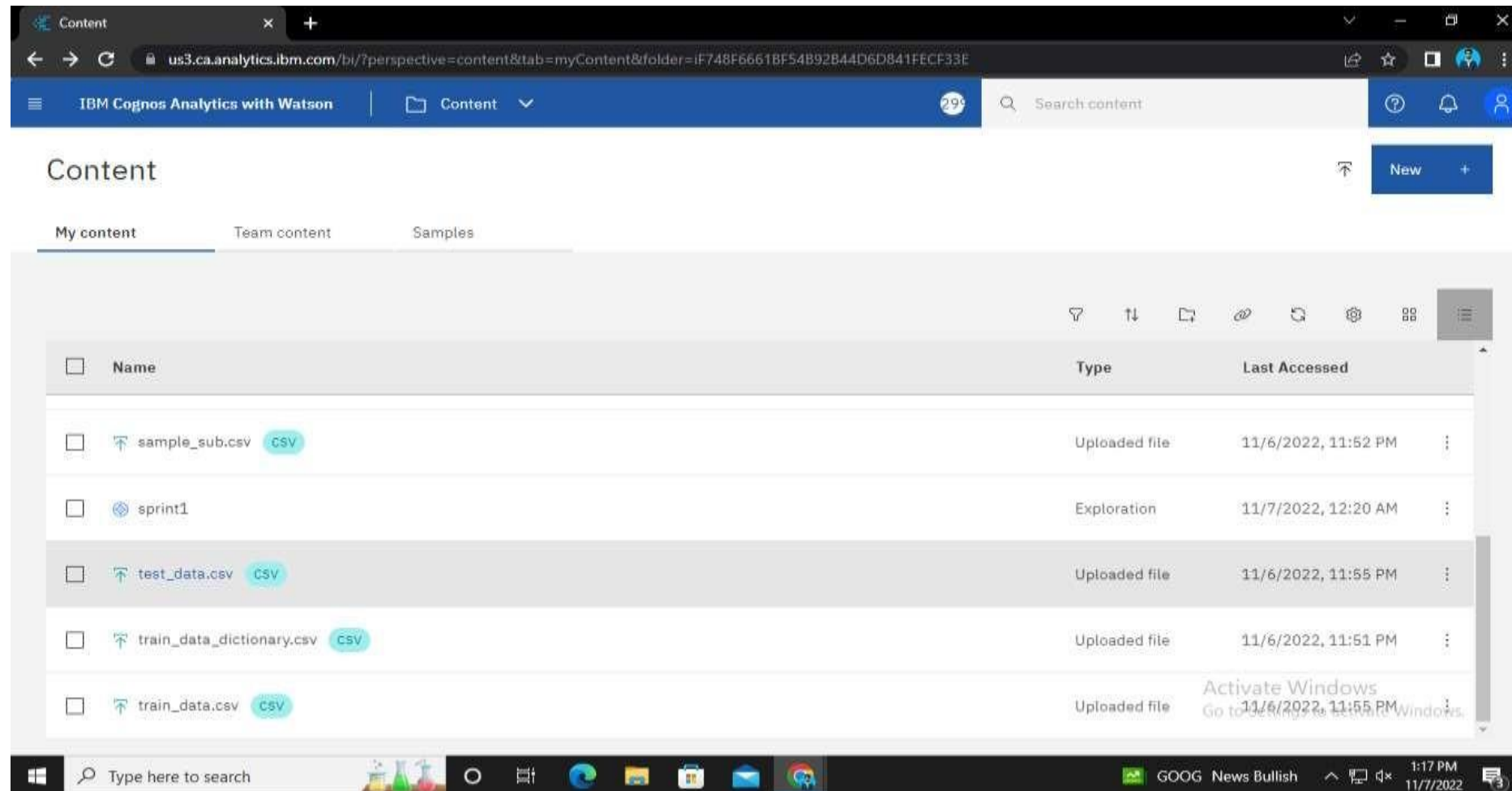
The data is spread across 3 data files (csv) and one data dictionary enclosed.

- 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 left sidebar shows a "Data module" section with a search bar and a list of modules, including "test\_data.csv". The main area displays a table with 11 rows of data, organized into columns: Row Id, case\_id, Hospital\_code, Hospital\_type\_code, City\_Code\_Hospital, and Hospital\_region\_code. The table is titled "Grid" and "Relationships".

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

At the bottom of the screen, there is a Windows taskbar with the search bar "Type here to search" and various application icons. The system tray shows the date and time: "1:21 PM 11/7/2022".

# • 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	A	2	17006	2	
F	F	2	17006	2	
D	D	4	17006	2	
F	F	2	17006	2	
F	F	2	17006	2	
D	D	2	17006	2	
E	E	3	95946	Null	
F	F	3	95946	Null	Trauma
F	F	4	95946	Null	Urgent
E	E	2	95946	Null	Trauma

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

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Go to Settings to activate Windows.

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11/7/2022

New data module

us3.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=1410854583\_9d4eaf45875b4076b50f6d8840fa8c50\_sessionTemp&objRef=&tid=1410854583\_9d4eaf45875b...

IBM Cognos Analytics with Watson

New data module

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▶ abc Department

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▶ abc Type of Admission

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▶ 📊 Visitors ...h Patient

▶ abc Age

▶ 📊 Admission\_Deposit

📊 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

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NULL values

☐ Replace this value with NULL

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☒ Replace NULL values with

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Cancel

Clean

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New data module

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IBM Cognos Analytics with Watson

New data module

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Properties

Data module

Search

abc Hospital...ype\_code

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📊 Bed Grade

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Grid

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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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