

# **PROJECT DEVELOPMENT PHASE**

## **SPRINT DELIVERY -1**

**TEAM ID : PNT2022TMID19527**

**BATCH NO : B9-3A5E**

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

**DATE : 7 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 .

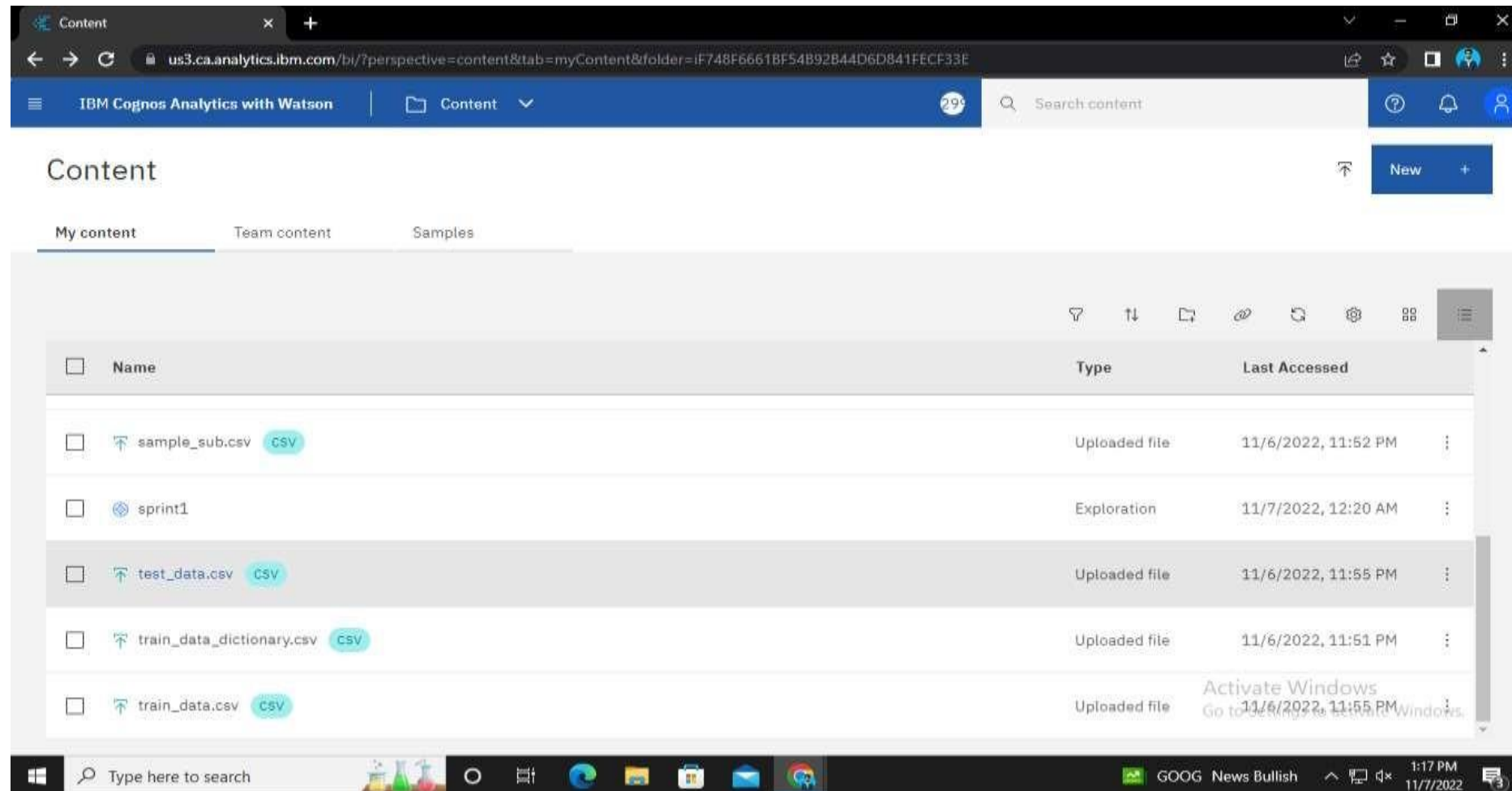
The data is spread across 3 data files (csv) and one data dictionary enclosed.

- 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 modules, including "test\_data.csv". The central grid view displays a table with 11 rows of data, including columns for "Row Id", "case\_id", "Hospital\_code", "Hospital\_type\_code", "City\_Code\_Hospital", and "Hospital\_region\_c".

Row Id	case_id	Hospital_code	Hospital_type_code	City_Code_Hospital	Hospital_region_c
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

Windows watermark: Activate Windows. Go to Settings to activate Windows.

# • Replacing NULL into values

The screenshot shows the IBM Cognos Analytics interface. On the left, a 'Data module' pane lists various fields. The main area displays a table with columns: 'rd\_Type', 'Ward\_Facility\_Code', 'Bed Grade', 'patientid', 'City\_Code\_Patient', and 'Type of Admission'. A context menu is open over the 'City\_Code\_Patient' column, showing options like 'Filter...', 'Create calculation...', 'Clean...', 'Sort descending', and 'Sort ascending'. The 'Clean...' option is highlighted, indicating the process of replacing NULL values.

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

The screenshot shows the 'Clean - City\_Code\_Patient' dialog box in Power BI. The dialog has a title bar 'Clean - City\_Code\_Patient' with a close button. Below the title, it says 'NULL values'. There are two options: 'Replace this value with NULL' (unchecked) and 'Replace NULL values with' (checked). The value '5' is entered in the dropdown for the second option. At the bottom, there are 'Cancel' and 'Clean' buttons. The background shows a data table with columns: rd\_Type, Ward\_Facility\_Code, Bed Grade, patientid, City\_Code\_Patient, and Type of Admission. The 'City\_Code\_Patient' column contains several NULL values.



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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Search content

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Properties

Data module

Search

Hospital...ype\_code

City\_Code\_Hospital

Hospital...ion\_code

Available...Hospital

Department

Ward\_Type

Ward\_Facility\_Code

Bed Grade

patientid

City\_Code\_Patient

Type of Admission

Severity of Illness

Visitors ...h Patient

Age

Admission\_Deposit

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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## **PREPARED DATA LINK**

[https://us3.ca.analytics.ibm.com/bi/?perspective=ca-modeller&pathRef=.my\\_folders%2FPREPARED%2BDATA](https://us3.ca.analytics.ibm.com/bi/?perspective=ca-modeller&pathRef=.my_folders%2FPREPARED%2BDATA)