

PROJECT DEVELOPMENT PHASE

SPRINT DELIVERY -1

TEAM ID : PNT2022TMID53915

BATCH NO : B8-2A4E

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

UNDERSTANDING THE DATA

This project is based on understanding the Hospital dataset .

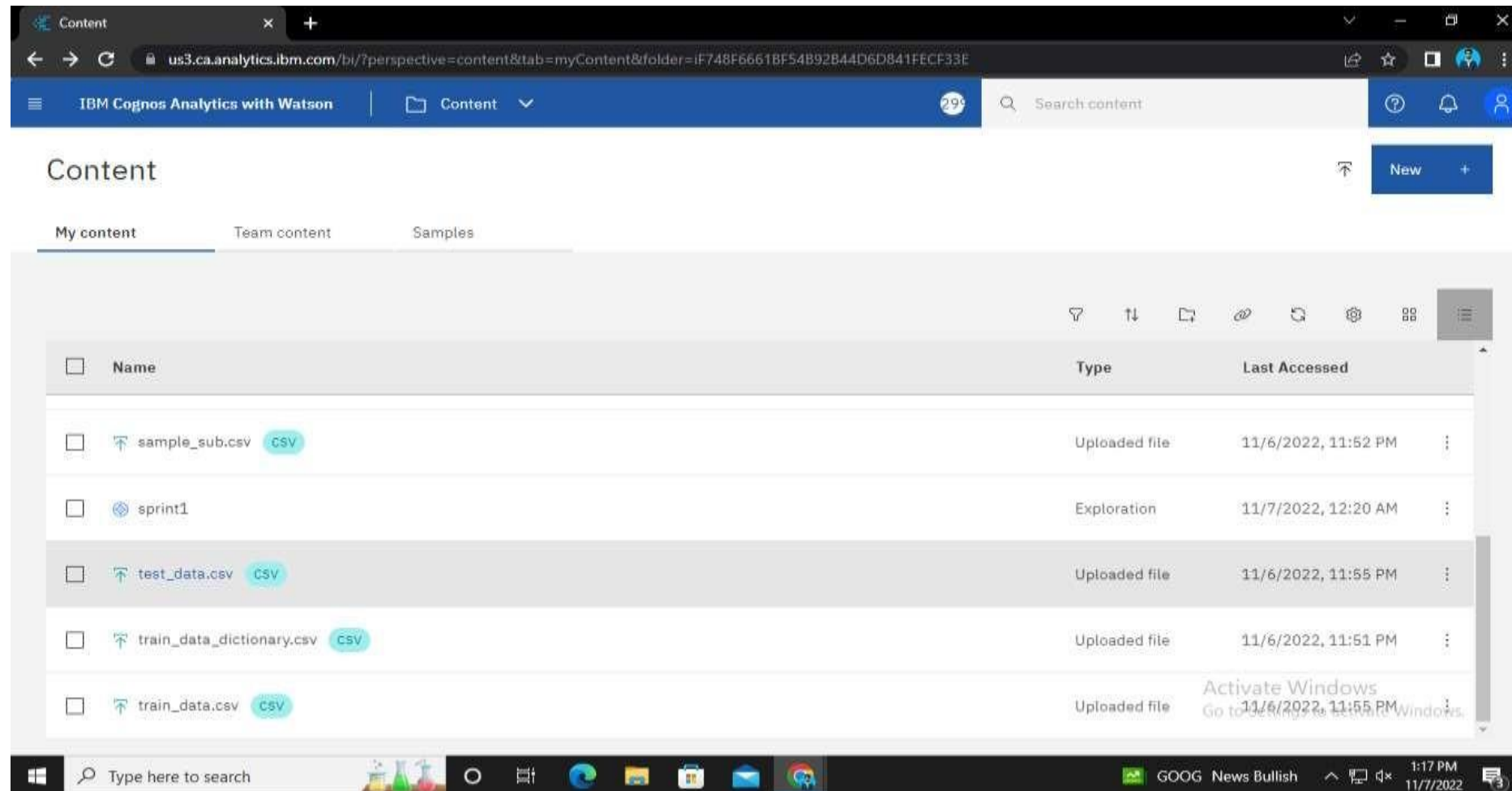
The data is spread across 3 data files (csv) and one data dictionary enclosed.

- 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	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

AMZN News Bullish

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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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Properties

Data module

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▶ 📍 City_Code_Hospital

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▶ 📊 Available...Hospital

▶ abc Department

▶ abc Ward_Type

▶ abc Ward_Facility_Code

▶ 📊 Bed Grade

▶ 📊 patientid

▶ 📍 City_Code_Patient

▶ abc Type of Admission

▶ abc Severity of Illness

▶ 📊 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

NULL values

☐ Replace this value with NULL

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☒ Replace NULL values with

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Cancel

Clean

Activate Windows

Go to Settings to activate Windows

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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

▶ abc Hospital...ype_code

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▶ 📍 Hospital...ion_code

📊 Available...Hospital

▶ abc Department

▶ abc Ward_Type

▶ abc Ward_Facility_Code

📊 Bed Grade

📊 patientid

📍 City_Code_Patient

▶ abc Type of Admission

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📊 Visitors ...h Patient

▶ abc 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	

Type here to search

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PREPARED DATA LINK

https://us3.ca.analytics.ibm.com/bi/?perspective=ca-modeller&pathRef=.my_folders%2FPREPARED%2BDATA