

PROJECT DEVELOPMENT PHASE

SPRINT DELIVERY -1

TEAM ID : PNT2022TMID27917

BATCH NO : B7-1A3E

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 .

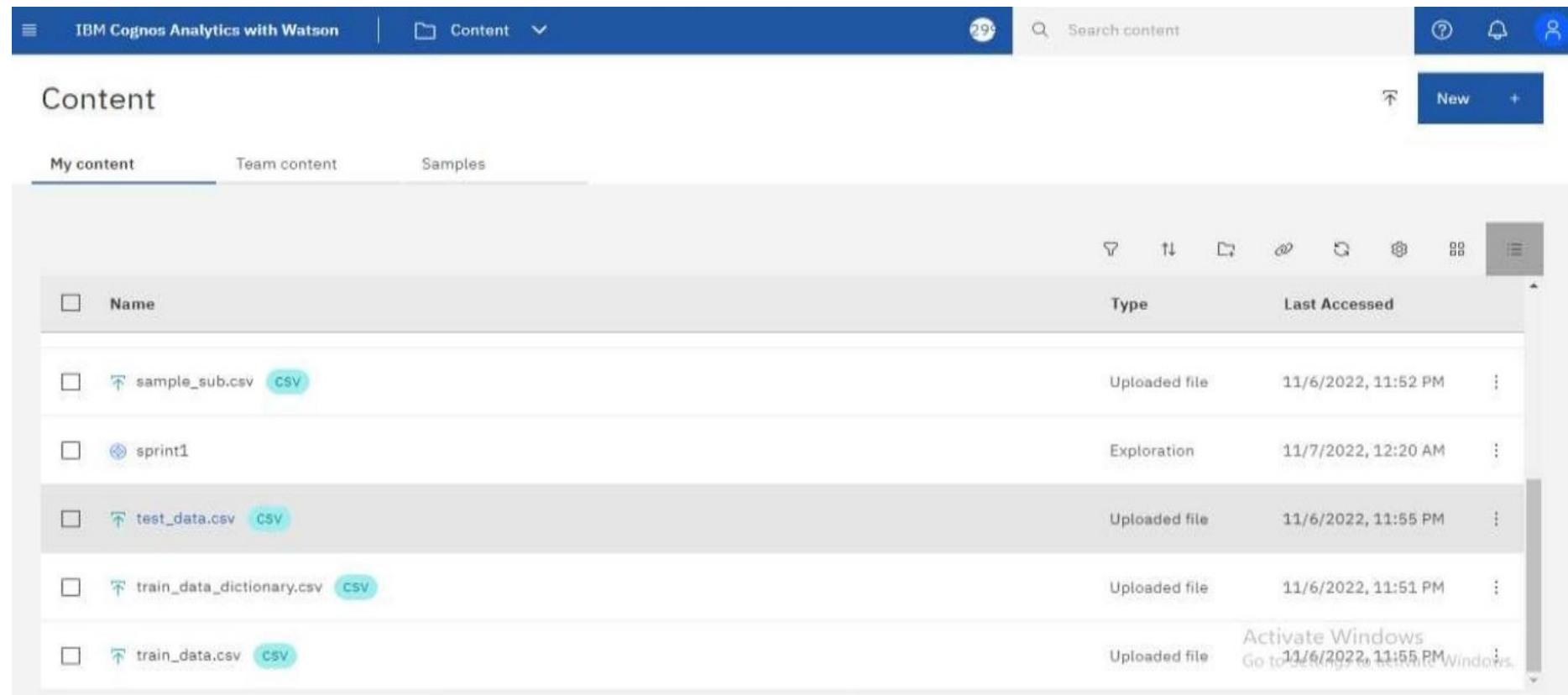
The data is spread across 3 data files (csv) and one data dictionary enclosed.

- 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

IBM Cognos Analytics with Watson

* New data module

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Search content

Properties

Data module

Search

New data module

Navigation paths

test_data.csv

- # Row Id
- # case_id
- # Hospital_code
- abc Hospital...ype_code
- City_Code_Hospital
- Hospital...ion_code
- Available...Hospital
- abc Department
- abc Ward_Type
- abc Ward_Facility_Code
- Bed Grade
- patientid

Grid Relationships Custom tables

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

Activate Windows
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- Replacing NULL into values

IBM Cognos Analytics with Watson

* New data module

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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

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

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IBM Cognos Analytics with Watson

New data module

29°

Search content

?

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

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

0

☒ Replace NULL values with

5

Cancel

Clean



Properties

Data module + ?

Search

- abc Hospital...ype_code
- City_Code_Hospital
- City_Code_Hospital
- 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

↑↓	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