

PROJECT DEVELOPMENT PHASE
SPRINT DELIVERY – 1

TEAM ID : PNT2022TMID19998
BATCH NO : B8-2A4E
PROJECT : Analytics for Hospitals Health-Care Data
DATE : 15-11-2022

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_SFhUNdUKUdjkhRT?usp=sharing

UNDERSTANDING THE DATA

This project is based on understanding the Hospital dataset.

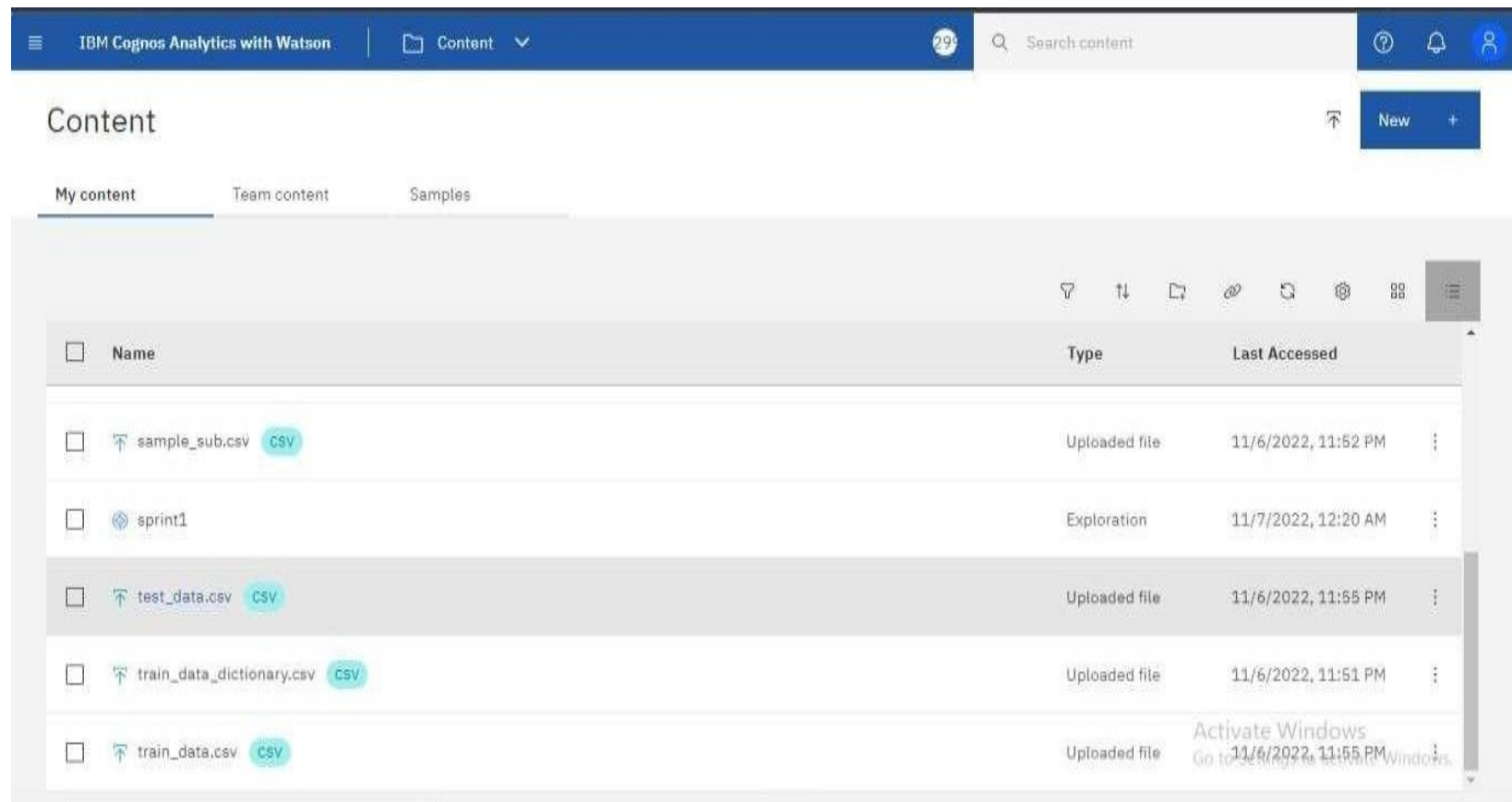
The data is spread across 3 data files (csv) and one data dictionary enclosed.

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 | 29° | Search content | ? | Bell | User

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
Go to Settings to activate Windows.

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

Replacing NULL into values

The screenshot shows the IBM Cognos Analytics with Watson interface. The top navigation bar includes the logo, a search bar, and a user profile icon. The main workspace is divided into a left sidebar for the 'Data module' and a central 'Grid' view. The 'Data module' sidebar lists various data sources, with 'City_Code_Patient' selected. The 'Grid' view displays a table with columns: 'rd_Type', 'Ward_Facility_Code', 'Bed Grade', 'patientid', 'City_Code_Patient', and 'Admission'. A context menu is open over the 'City_Code_Patient' column, showing options like 'Filter...', 'Create calculation...', 'Create data group...', 'Create navigation path...', 'Hide from users', 'Remove', 'Format data...', 'Clean...', 'Sort descending', 'Sort ascending', and 'Properties'. The 'Clean...' option is highlighted, indicating the process of replacing NULL values.

rd_Type	Ward_Facility_Code	Bed Grade	patientid	City_Code_Patient	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

IBM Cognos Analytics with Watson

* New data module

299

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

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

IBM Cognos Analytics with Watson

New data module

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Properties

Data module

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🔍 Search

▶ abc Hospital...ype_code

▶ 📍 City_Code_Hospital

▶ 📍 Hospital...ion_code

▶ 📄 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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