

# Project Development Phase

## Delivery of Sprint-1

<b>Date</b>	29 OCT 2022
<b>Team ID</b>	PNT2022TMID14215
<b>Project Name</b>	Analytics for Hospitals' Health-Care Data

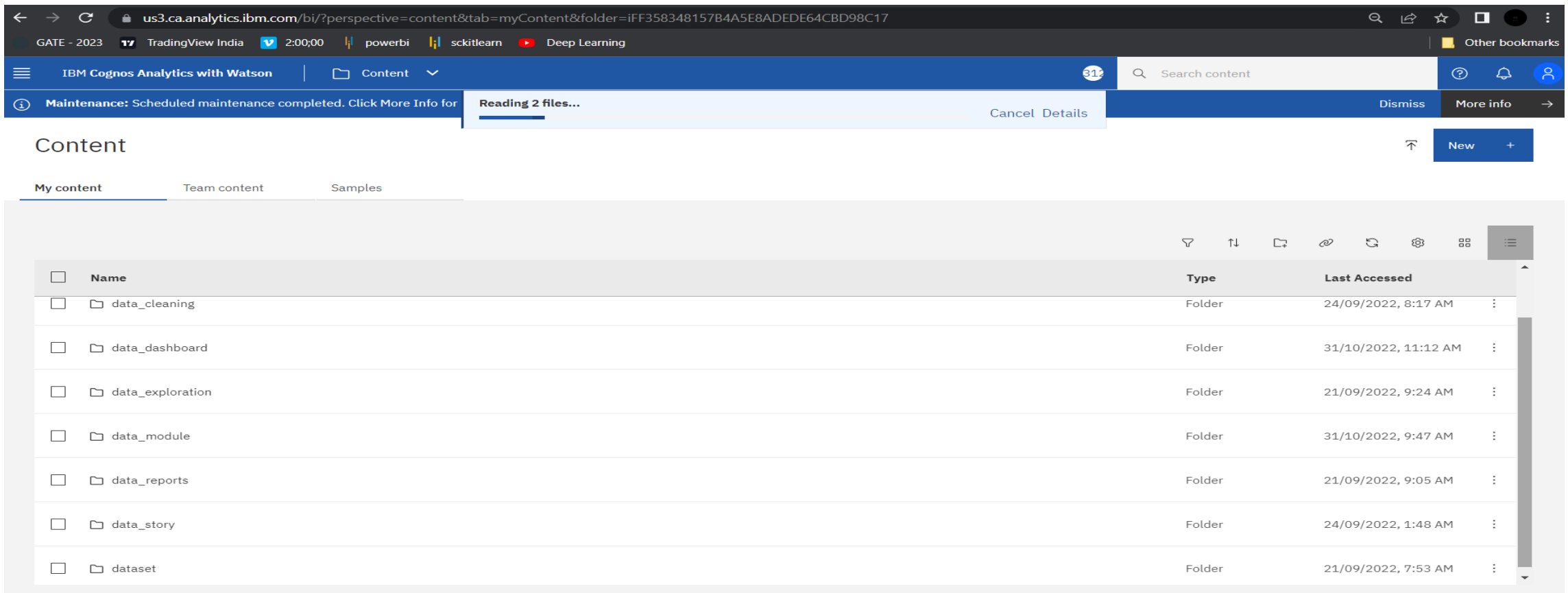
# Sprint-1

**Data Collection:** Download the Dataset Dataset link :

[https://drive.google.com/file/d/1sIC0MhsJHeuODVkhIXrdNOX\\_aBDySSBh/view](https://drive.google.com/file/d/1sIC0MhsJHeuODVkhIXrdNOX_aBDySSBh/view)

**Load the Dataset:**

**Tool used:** IBM Cognos Analytics



The screenshot displays the IBM Cognos Analytics web interface. The browser address bar shows the URL: `us3.ca.analytics.ibm.com/bi/?perspective=content&tab=myContent&folder=iff358348157B4A5E8ADEDE64CBD98C17`. The page header includes the IBM Cognos Analytics logo and a search bar. A notification banner at the top indicates "Maintenance: Scheduled maintenance completed. Click More Info for". Below this, a "Reading 2 files..." progress bar is visible. The main content area is titled "Content" and features tabs for "My content", "Team content", and "Samples". The "My content" tab is active, showing a list of folders. The table below lists the folders with their names, types, and last accessed dates.

Name	Type	Last Accessed
data_cleaning	Folder	24/09/2022, 8:17 AM
data_dashboard	Folder	31/10/2022, 11:12 AM
data_exploration	Folder	21/09/2022, 9:24 AM
data_module	Folder	31/10/2022, 9:47 AM
data_reports	Folder	21/09/2022, 9:05 AM
data_story	Folder	24/09/2022, 1:48 AM
dataset	Folder	21/09/2022, 7:53 AM

# Data Preparation:

## Prepare the Dataset

<

# Null Values Cleaning Process :

IBM Cognos Analytics with Watson

hospital\_care\_data

312

Search content

?

🔔

👤

Edit calculation

NameCity\_Code\_Patient

Components

Search

between  
case  
contains  
currentMeasure  
default  
distinct  
else  
end  
ends with  
escape  
for  
for all  
for any

Expression

```
1 IF ( City_Code_Patient is missing )  
2 THEN ( median (City_Code_Patient ))  
3 ELSE ( City_Code_Patient )
```

Validation Results

✔ The expression is valid.

Cancel

OK

test\_data.csv

×

Bed Grade

### Expression

▼

Validate

```
1 IF ( Bed_Grade is missing)
2 THEN (median (Bed_Grade))
3 ELSE (Bed_Grade )
```

## Validation Results

✔ The expression is valid.

Cancel

OK

+

🔍 Search

▼  train data.csv


► # Row Id

- ▶ # case id

- ▶ # Hospital code

► abc Hospital...pe code

►  City Cod...Hospital


►  Hospital...ion code

Available...Hospital

► abc Department

► abc Ward Type

▶ abc Ward Fa...ty Code

 Bed Grade

patientid

City Code Patient

► abc Type of Admission

► abc Severity of Illness

Visitors ...h Patient

► abc Age

Admissio...Deposit

► abc Stay

►  test data.csv

 **Grid**

## Relationships

## Custom tables

ent	Ward_Type	Ward_Facility_Code	Bed Grade	patientid	City_Code_Patient	Type of Admission	Severity of Illness	Vis
apy	R	F	2	31397	7	Emergency	Extreme	
apy	S	F	2	31397	7	Trauma	Extreme	
ia	S	E	2	31397	7	Trauma	Extreme	
apy	R	D	2	31397	7	Trauma	Extreme	
apy	S	D	2	31397	7	Trauma	Extreme	
ia	S	F	2	31397	7	Trauma	Extreme	
apy	S	B	3	31397	7	Emergency	Extreme	
apy	Q	F	3	31397	7	Trauma	Extreme	
gy	R	B	4	31397	7	Trauma	Extreme	
gy	S	E	3	31397	7	Trauma	Extreme	
apy	S	B	2	31397	7	Urgent	Extreme	
apy	R	D	1	31397	7	Urgent	Extreme	
apy	R	A	3	31397	7	Emergency	Extreme	
apy	S	F	3	31397	7	Urgent	Extreme	
gy	Q	F	3	63418	8	Emergency	Extreme	
gy	Q	F	3	63418	8	Emergency	Extreme	

# Hospital Data :

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hospital\_care\_data

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Search content

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Properties

Data module

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🔍

Search

train\_data.csv

# Row Id

# case\_id

# Hospital\_code

abc Hospital...pe\_code

📍 City\_Cod...Hospital

📍 Hospital...ion\_code

📄 Available...Hospital

abc Department

abc Ward\_Type

abc Ward\_Fa...ty\_Code

📄 Bed Grade

📄 patientid

📍 City\_Code\_Patient

abc Type of Admission

abc Severity of Illness

📄 Visitors ...h Patient

abc Age

📄 Admissio...Deposit

abc Stay

test\_data.csv

Grid

Relationships

Custom tables

↕	Row Id	case_id	Hospital_code	Hospital_type_code	City_Code_Hospital	Hospital_region_code	Available E...in Hospital	Department
	1	1	8	c	3	Z	3	radiotherapy
	2	2	2	c	5	Z	2	radiotherapy
	3	3	10	e	1	X	2	anesthesia
	4	4	26	b	2	Y	2	radiotherapy
	5	5	26	b	2	Y	2	radiotherapy
	6	6	23	a	6	X	2	anesthesia
	7	7	32	f	9	Y	1	radiotherapy
	8	8	23	a	6	X	4	radiotherapy
	9	9	1	d	10	Y	2	gynecology
	10	10	10	e	1	X	2	gynecology
	11	11	22	g	9	Y	2	radiotherapy
	12	12	26	b	2	Y	4	radiotherapy
	13	13	16	c	3	Z	2	radiotherapy
	14	14	9	d	5	Z	3	radiotherapy
	15	15	6	a	6	X	4	gynecology
	16	16	6	a	6	X	3	gynecology

Data ...dule

Q Search

tr...sv

# R...

# c...

# H...

abc H...

C...

H...

A...

abc D...

abc ...

abc ...

B...

p...

C...

abc T...

abc S...

V...

abc Age

A...

abc Sta

te...sv

Grid

Relationships

Custom tables

↑↓ I Grade	patientid	City_Code_Patient	Type of Admission	Severity of Illness	Visitors with Patient	Age	Admission_Deposit	Stay
	31397	7	Emergency	Extreme	2	51-60	4911	0-10
	31397	7	Trauma	Extreme	2	51-60	5954	41-50
	31397	7	Trauma	Extreme	2	51-60	4745	31-40
	31397	7	Trauma	Extreme	2	51-60	7272	41-50
	31397	7	Trauma	Extreme	2	51-60	5558	41-50
	31397	7	Trauma	Extreme	2	51-60	4449	11-20
	31397	7	Emergency	Extreme	2	51-60	6167	0-10
	31397	7	Trauma	Extreme	2	51-60	5571	41-50
	31397	7	Trauma	Extreme	2	51-60	7223	51-60
	31397	7	Trauma	Extreme	2	51-60	6056	31-40
	31397	7	Urgent	Extreme	2	51-60	5797	21-30
	31397	7	Urgent	Extreme	2	51-60	5993	11-20
	31397	7	Emergency	Extreme	2	51-60	5141	0-10
	31397	7	Urgent	Extreme	2	51-60	8477	21-30
	63418	8	Emergency	Extreme	2	71-80	2685	0-10
	63418	8	Emergency	Extreme	2	71-80	9398	0-10



