

## Project Development Phase Delivery of Sprint-1

<b>Date</b>	2 November 2022
<b>Team ID</b>	PNT2022TMID29634
<b>Project Name</b>	Analytics for hospital's health care

### Project Development Phase:

#### Sprint-1:

- Data Collection
- Data Preparation

#### Sprint-2:

- Data Exploration

#### Sprint-3:

- Dashboard creation

#### Sprint-4:

- Report Creation
- Story Creation

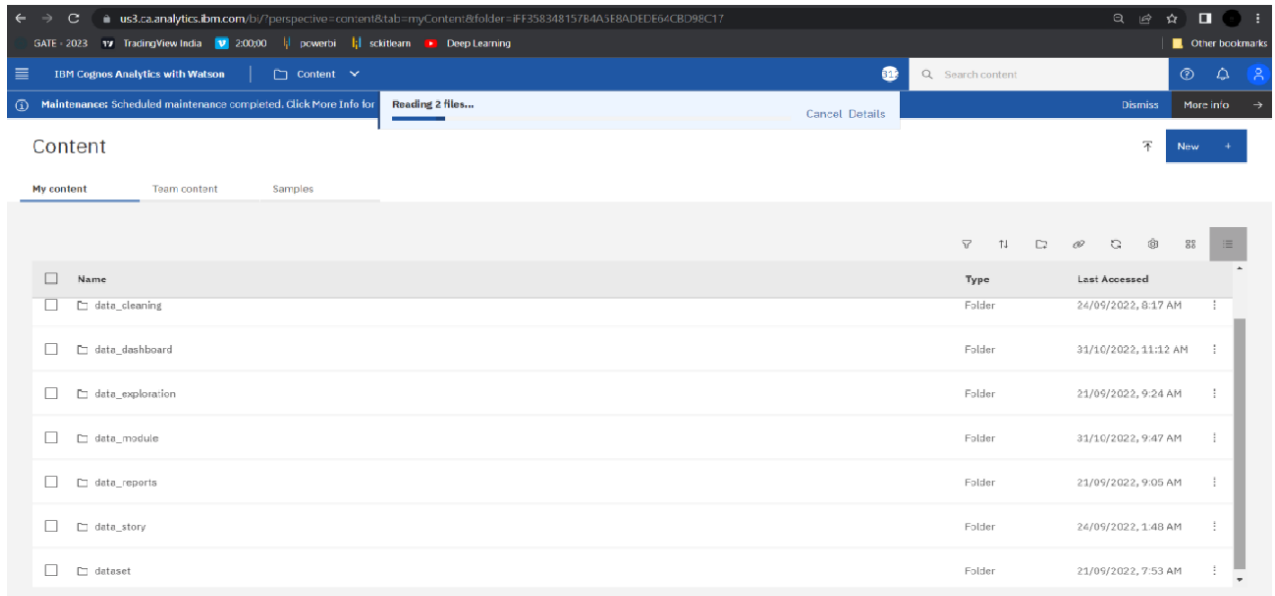
## Sprint-1:

**Data Collection:** Download the Dataset Link:

[https://drive.google.com/drive/folders/1qozDgfVw04hGS8Di\\_SFhUNdUKUdjkhRT?usp=sharing](https://drive.google.com/drive/folders/1qozDgfVw04hGS8Di_SFhUNdUKUdjkhRT?usp=sharing)

## Load the Dataset:

**Tool used:** IBM Cognos Analytics



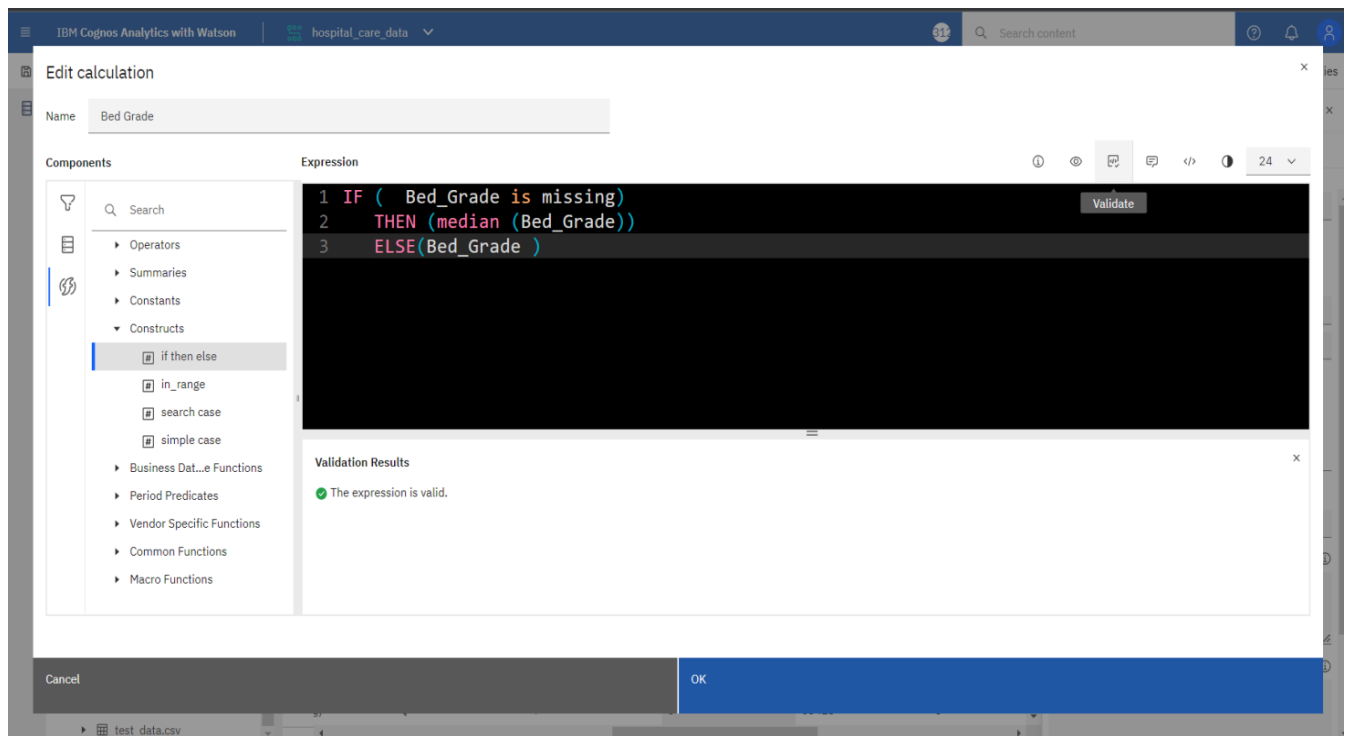
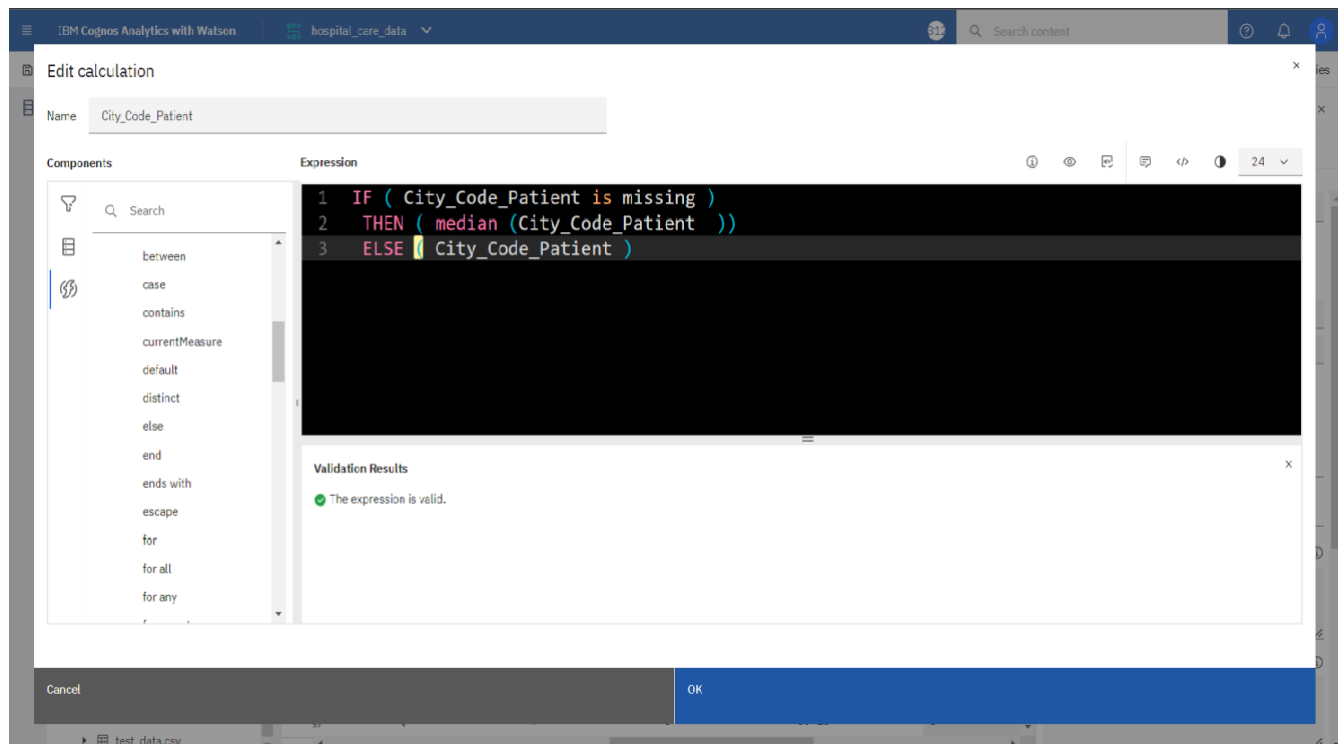
# Data Preparation:

## Prepare the Dataset

The screenshot displays the IBM Cognos Analytics interface. The top navigation bar includes the text 'IBM Cognos Analytics with Watson', a dropdown menu for 'hospital\_care\_data', a search bar, and user profile icons. The left sidebar shows a 'Data module' section with a search bar and a tree view containing 'hospital\_care\_data', 'Navigation paths', 'train\_data.csv', and 'test\_data.csv'. The main area is titled 'Grid' and shows a table with 16 rows and 9 columns. The columns are: Row Id, case\_id, Hospital\_code, Hospital\_type\_code, City\_Code\_Hospital, Hospital\_region\_code, Available E...in Hospital, and Department. The data is as follows:

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

# Null Values Cleaning Process:



IBM Cognos Analytics with Watson									
hospital_care_data									
Search content									
Properties									
Data module									
Grid Relationships Custom tables									
ent	Ward_Type	Ward_Facility_Code	Bed Grade	patientid	City_Code_Patient	Type of Admission	Severity of Illness	Vi	
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		
iy	R	B	4	31397	7	Trauma	Extreme		
iy	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		
iy	Q	F	3	63418	8	Emergency	Extreme		
iy	Q	F	3	63418	8	Emergency	Extreme		

## Hospital Data:

IBM Cognos Analytics with Watson									
hospital_care_data									
Search content									
Properties									
Data module									
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		

IBM Cognos Analytics with Watson

hospital\_care\_data

Q Search content

Properties

Data ...dule

Q Search

Tr...SV

# R...

# C...

# H...

stc H...

stc C...

stc H...

A...

stc D...

stc ...

stc ...

R...

D...

C...

stc T...

stc S...

V...

stc Age

A...

stc Sta

te...sv

Grid

Relationships

Custom tables

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