

**Project Development Phase
Delivery of Sprint-1**

Date	07 November 2022	
Team ID	PNT2022TMID11633	
Project Name	Analytics for Hospitals' Health-Care Data	
Team Members	Dharani Kumar C Keerthivasan B Akil V Mohammed upayathulla M	
Project Development Phase:	Sprint-1: <ul style="list-style-type: none">➤ Data Collection➤ Data Preparation Sprint-2: <ul style="list-style-type: none">➤ Data Exploration	Sprint-3: <ul style="list-style-type: none">➤ Dashboard Creation Sprint-4: <ul style="list-style-type: none">➤ Report Creation➤ Story Creation

Sprint-1:

Data Collection: Download the Dataset link :

https://drive.google.com/file/d/1slC0MhsJHeuODVkhIXrdNOX_aBDySSBh/view?usp=share_link **Load the**

Dataset: **Tool used:** IBM Cognos Analytics

The screenshot displays the IBM Cognos Analytics web interface. At the top, 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 the header, the "Content" section is active, showing a list of folders under the "My content" tab. The folders are listed in a table with columns for Name, Type, and Last Accessed.

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

IBM Cognos Analytics with Watson

hospital_care_data

312

Search content

?

🔔

👤

📁

🔗

↶

↷

📄

📄

Properties

Data module

+

🕒

Search

hospital_care_data

Navigation paths

+

▶️ 📄 train_data.csv

▶️ 📄 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

Null Values Cleaning Process :



Edit calculation



Name City_Code_Patient

Components

Expression



24



Search



between



case

contains

currentMeasure

default

distinct

else

end

ends with

escape

for

for all

for any

```
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

IBM Cognos Analytics with Watson

hospital_care_data

312

Search content

?

🔔

👤

Edit calculation

×

Name

Bed Grade

Components

Expression

24

🔍 Search

▸ Operators

▸ Summaries

▸ Constants

▾ Constructs

if then else

in_range

search case

simple case

▸ Business Dat...e Functions

▸ Period Predicates

▸ Vendor Specific Functions

▸ Common Functions

▸ Macro Functions

1 IF (Bed_Grade is missing)

2 THEN (median (Bed_Grade))

3 ELSE(Bed_Grade)

Validate

Validation Results

×

✔ The expression is valid.

Cancel

OK

test data.csv

Hospital Data :

IBM Cognos Analytics with Watson

hospital_care_data

31

Search content

?

🔔

👤

📄

🔍

🔗

↶

↷

📄

🔗

Properties

Data module

+

🕒

🔍

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	1	8	c	3	Z	3	radiotherapy
2	2	2	2	c	5	Z	2	radiotherapy
3	3	3	10	e	1	X	2	anesthesia
4	4	4	26	b	2	Y	2	radiotherapy
5	5	5	26	b	2	Y	2	radiotherapy
6	6	6	23	a	6	X	2	anesthesia
7	7	7	32	f	9	Y	1	radiotherapy
8	8	8	23	a	6	X	4	radiotherapy
9	9	9	1	d	10	Y	2	gynecology
10	10	10	10	e	1	X	2	gynecology
11	11	11	22	g	9	Y	2	radiotherapy
12	12	12	26	b	2	Y	4	radiotherapy
13	13	13	16	c	3	Z	2	radiotherapy
14	14	14	9	d	5	Z	3	radiotherapy
15	15	15	6	a	6	X	4	gynecology
16	16	16	6	a	6	X	3	gynecology

	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

