

# Project Development Phase

## Sprint-1

Technology	Data Analytics
Team ID	PNT2022TMID29546
Project Name	Analytics for Hospitals Health-care Data

### Project Development Phase

#### **Sprint 1:**

- Data collection
- Data Preparation

#### **Sprint 2:**

- Data Exploration

#### **Sprint 3:**

- Dashboard Creation

#### **Sprint 4:**

- Report Creation
- Story Creation

## Data Collection:

[https://drive.google.com/drive/folders/1qozDgfVw04hGS8Di\\_SFhUNdUKUdjkhT](https://drive.google.com/drive/folders/1qozDgfVw04hGS8Di_SFhUNdUKUdjkhT)

## Loading The Datasets:

The screenshot displays the IBM Cognos Analytics interface. At the top, a dark navigation bar includes the text "IBM Cognos Analytics with Watson", a "Content" dropdown menu, a search bar labeled "Search content", and icons for help, notifications, and user profile. Below the navigation bar, the main content area shows a folder named "project". Under the "My content" tab, the breadcrumb "My content / project" is visible. A toolbar with various action icons (filter, sort, share, etc.) is positioned above a grid of four file cards. Each card represents a CSV file: "sample\_sub.csv", "test\_data.csv", "train\_data\_dictionary.csv", and "train\_data.csv". Each card displays the file name, the text "Last Accessed" followed by a timestamp, and a teal "CSV" label with an upward arrow icon.

File Name	Last Accessed	Format
sample_sub.csv	11/7/2022, 2:35 AM	CSV
test_data.csv	11/7/2022, 2:38 AM	CSV
train_data_dictionary.csv	11/7/2022, 3:32 AM	CSV
train_data.csv	11/7/2022, 3:31 AM	CSV

# Data Preparation:

us1.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=i5BDA8F630C07419DA87550EF45A57B0D&objRef=i5BDA8F630C07419DA87550EF45A57B0D&tid=95720831...

IBM Cognos Analytics with Watson pro data mod 296 Search content

Properties

Data module +

Search

pro data mod

Navigation paths +

train\_data.csv - Join (1)

train\_data.csv

test\_data.csv

Grid Relationships Custom tables

↑↓	Row Id	case_id	Hospital_code	Hospital_type_code	City_Code_Hospital	Hospital_region_c
	1	1	8	c	3	Z
	2	2	2	c	5	Z
	3	3	10	e	1	X
	4	4	26	b	2	Y
	5	5	26	b	2	Y
	6	6	23	a	6	X
	7	7	32	f	9	Y
	8	8	23	a	6	X
	9	9	1	d	10	Y
	10	10	10	e	1	X
	11	11	22	g	9	Y
	12	12	26	b	2	Y

# Null Values Cleaning Process :

us1.ca.analytics.ibm.com/bi/?perspective=dashboard&id=iB1476D0FED174871A6A6E3D5E296BE61&objRef=iB1476D0FED174871A6A6E3D5E296BE61&options%5Bdisa...

IBM Cognos Analytics with Watson project dashboard

### Create calculation

Name Calculation name

Components

- train\_data.csv - Join (1)
- train\_data.csv
- test\_data.csv

Expression

```
1 if (train_data_csv.City_Code_Patient is missing)
2 then (median(train_data_csv.City_Code_Patient))
3 else (train_data_csv.City_Code_Patient)
```

Preview (Execution time: 2.534 seconds)

Calculation name	City_Code_Patient
38	38
37	37

☒ Calculate after aggregation

Cancel OK

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pro data mod

Search content

29

?

?

?

Create calculation

Name

Calculation name

Components

Search

pro data mod

train\_dat...Join (1)

train\_data.csv

# Row Id

# case\_id

# Hospi...code

abc Hospi...code

City\_C...pital

Hospi...code

Availab...ospital

abc Department

Expression

1 if (train\_data\_csv.Bed\_Grade is missing)

2 then median(train\_data\_csv.Bed\_Grade))

3 else(train\_data\_csv.Bed\_Grade)

Preview (Execution time: 3.197 seconds)

Refresh

×

Calculation name	Bed Grade
835860	835860

☒ Calculate after aggregation

Cancel

OK

# Hospital Data :

us1.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=i5BDA8F630C07419DA87550EF45A57B0D&objRef=i5BDA8F630C07419DA87550EF45A57B0D&tid=95720831...

IBM Cognos Analytics with Watsonpro data mod29:Search content

Properties

Data module

Search

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

abc Stay

test\_data.csv

GridRelationshipsCustom tables

↑↓	ilable E...in Hospital	Department	Ward_Type	Ward_Facility_Code	Bed Grade	patientid
		radiotherapy	R	F	2	31397
		radiotherapy	S	F	2	31397
		anesthesia	S	E	2	31397
		radiotherapy	R	D	2	31397
		radiotherapy	S	D	2	31397
		anesthesia	S	F	2	31397
		radiotherapy	S	B	3	31397
		radiotherapy	Q	F	3	31397
		gynecology	R	B	4	31397
		gynecology	S	E	3	31397
		radiotherapy	S	B	2	31397
		radiotherapy	R	D	1	31397

Data module		Grid Relationships Custom tables					
Search							
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							
abc Stay							
test_data.csv							
		Bed Grade	patientid	City_Code_Patient	Type of Admission	Severity of Illness	Visitors with F
		2	31397	7	Emergency	Extreme	2
		2	31397	7	Trauma	Extreme	2
		2	31397	7	Trauma	Extreme	2
		2	31397	7	Trauma	Extreme	2
		2	31397	7	Trauma	Extreme	2
		2	31397	7	Trauma	Extreme	2
		3	31397	7	Emergency	Extreme	2
		3	31397	7	Trauma	Extreme	2
		4	31397	7	Trauma	Extreme	2
		3	31397	7	Trauma	Extreme	2
		2	31397	7	Urgent	Extreme	2
		1	31397	7	Urgent	Extreme	2

## **Prepared data link :**

[https://us1.ca.analytics.ibm.com/bi/?perspective=dashboard&pathRef=.my\\_folders%2Fproject%2Fproject%2Bdashboard&action=view&mode=dashboard&subView=model00000184519ba369\\_00000000](https://us1.ca.analytics.ibm.com/bi/?perspective=dashboard&pathRef=.my_folders%2Fproject%2Fproject%2Bdashboard&action=view&mode=dashboard&subView=model00000184519ba369_00000000)