

# Project Development Phase

## Delivery of Sprint-1

<b>Date</b>	29 October 2022
<b>Team ID</b>	PNT2022TMID23311
<b>Project Name</b>	Analytics for Hospitals' Health-Care Data

### **Sprint-1:**

- Data Collection
- Data Preparation

### **Sprint-2:**

- Data Exploration

### **Sprint-3:**

- Dashboard Creation

### **Sprint-4:**

- Report Creation
- Story Creation

# **Sprint-1:**

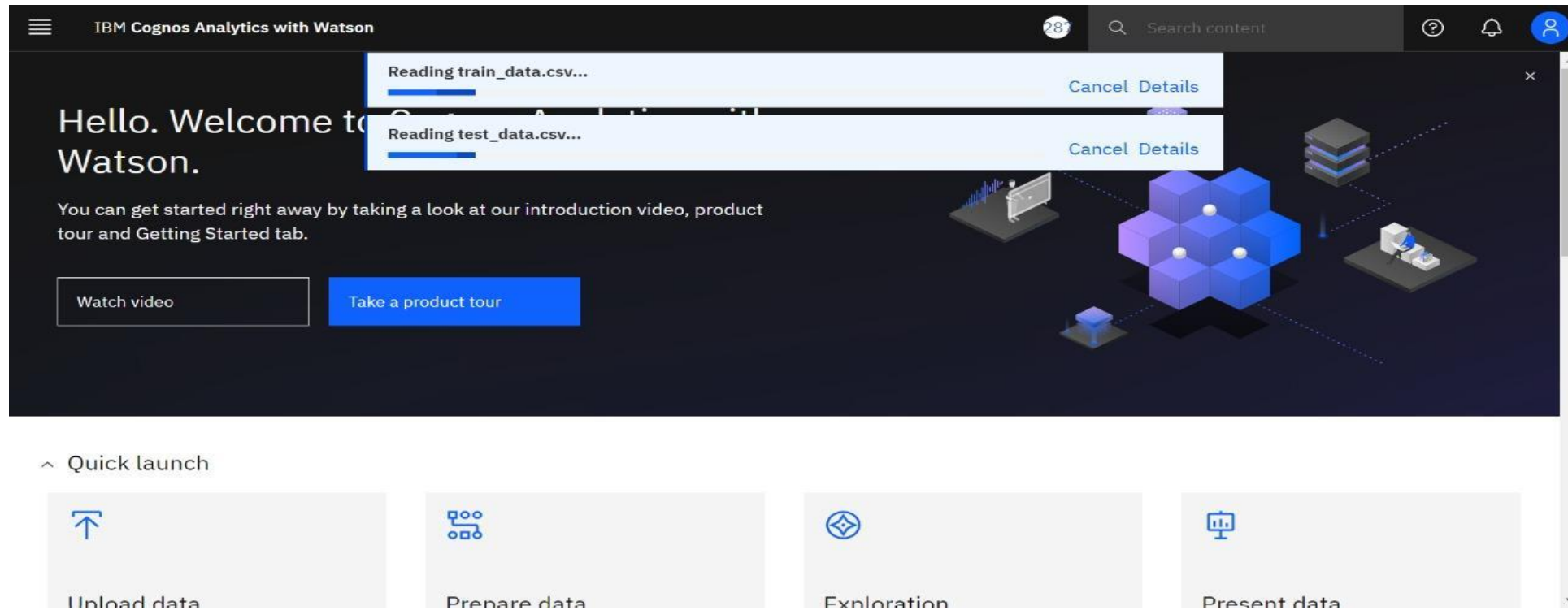
## **Data Collection**

**Download the Dataset link:**

**[https://drive.google.com/drive/folders/1qozDgfVw04hGS8Di\\_SFhUNdUKUdjkhT?usp=sharing](https://drive.google.com/drive/folders/1qozDgfVw04hGS8Di_SFhUNdUKUdjkhT?usp=sharing)**

## Load the Dataset:

Tool used: IBM Cognos Analytics



# Data Preparation

## Prepare the Dataset

IBM Cognos Analytics with Watson

sprint 1

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Search content

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🔍 Properties

Data ...dule + ⌚

Grid Relationships Custom tables

🔍 Search

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↑↓	Row Id	case_id	Hospital_code	Hospital_type_code	City_Code_Hospital	Hospital_region_code	Available E...in Hospital	Depart
	1	1	8	c	3	Z	3	radic
	2	2	2	c	5	Z	2	radic
	3	3	10	e	1	X	2	anes
	4	4	26	b	2	Y	2	radic
	5	5	26	b	2	Y	2	radic
	6	6	23	a	6	X	2	anes
	7	7	32	f	9	Y	1	radic
	8	8	23	a	6	X	4	radic
	9	9	1	d	10	Y	2	gyne
	10	10	10	e	1	X	2	gyne
	11	11	22	g	9	Y	2	radic
	12	12	26	b	2	Y	4	radic
	13	13	16	c	3	Z	2	radic

# Null Values Cleaning Process :

Create calculation

Name

City\_Code\_Patient\_Calculation

Components

Search

train\_data.csv

# Row Id

# case\_id

# Hospital\_code

abc Hospit...\_code

City\_Co...spital

Hospit...\_code

Availabl...Hospital

abc Department

abc Ward\_Type

abc Ward\_...\_Code

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.

## Create calculation

Name

### Components



Search



train\_data.csv



City\_Cod...culation



▶ # Row Id

▶ # case\_id

▶ # Hospital\_code

▶ abc Hospit...\_code

▶ City\_Co...spital

▶ Hospit...\_code



Availabl...Hospital

▶ abc Department

▶ abc Ward\_Type

### Expression



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```
1 if( Bed_Grade is missing)
2   then(median(Bed_Grade))
3   else(Bed_Grade)
```

### Validation Results

✓ The expression is valid.

Data ...duple

Search

abc H...

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Grid

Relationships

Custom tables


↕	Department	Ward_Type	Ward_Facility_Code	Bed Grade	patientid	City_Code_Patient	Type of Admission	Severi
	radiotherapy	R	F	2	31397	7	Emergency	Extr
	radiotherapy	S	F	2	31397	7	Trauma	Extr
	anesthesia	S	E	2	31397	7	Trauma	Extr
	radiotherapy	R	D	2	31397	7	Trauma	Extr
	radiotherapy	S	D	2	31397	7	Trauma	Extr
	anesthesia	S	F	2	31397	7	Trauma	Extr
	radiotherapy	S	B	3	31397	7	Emergency	Extr
	radiotherapy	Q	F	3	31397	7	Trauma	Extr
	gynecology	R	B	4	31397	7	Trauma	Extr
	gynecology	S	E	3	31397	7	Trauma	Extr
	radiotherapy	S	B	2	31397	7	Urgent	Extr
	radiotherapy	R	D	1	31397	7	Urgent	Extr
	radiotherapy	R	A	3	31397	7	Emergency	Extr





 Grid  Relationships  Custom tables

Search

▶ abc H...

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 C...

▶ abc T...


▶ abc S...

 V...

▶ abc Age

 A...

▶ abc Stay

▶  te...sv

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

Data ...dule

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Q Search

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Grid

Relationships

Custom tables

↕	City_Code_Patient	Type of Admission	Severity of Illness	Visitors with Patient	Age	Admission_Deposit	Stay
7	Emergency	Extreme	2	51-60	4911	0-10	
7	Trauma	Extreme	2	51-60	5954	41-50	
7	Trauma	Extreme	2	51-60	4745	31-40	
7	Trauma	Extreme	2	51-60	7272	41-50	
7	Trauma	Extreme	2	51-60	5558	41-50	
7	Trauma	Extreme	2	51-60	4449	11-20	
7	Emergency	Extreme	2	51-60	6167	0-10	
7	Trauma	Extreme	2	51-60	5571	41-50	
7	Trauma	Extreme	2	51-60	7223	51-60	
7	Trauma	Extreme	2	51-60	6056	31-40	
7	Urgent	Extreme	2	51-60	5797	21-30	
7	Urgent	Extreme	2	51-60	5993	11-20	
7	Emergency	Extreme	2	51-60	5141	0-10	



