

# Project Development Phase

## Delivery of Sprint-1

Date	14 NOV 2022
Team ID	PNT2022TMID04331
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

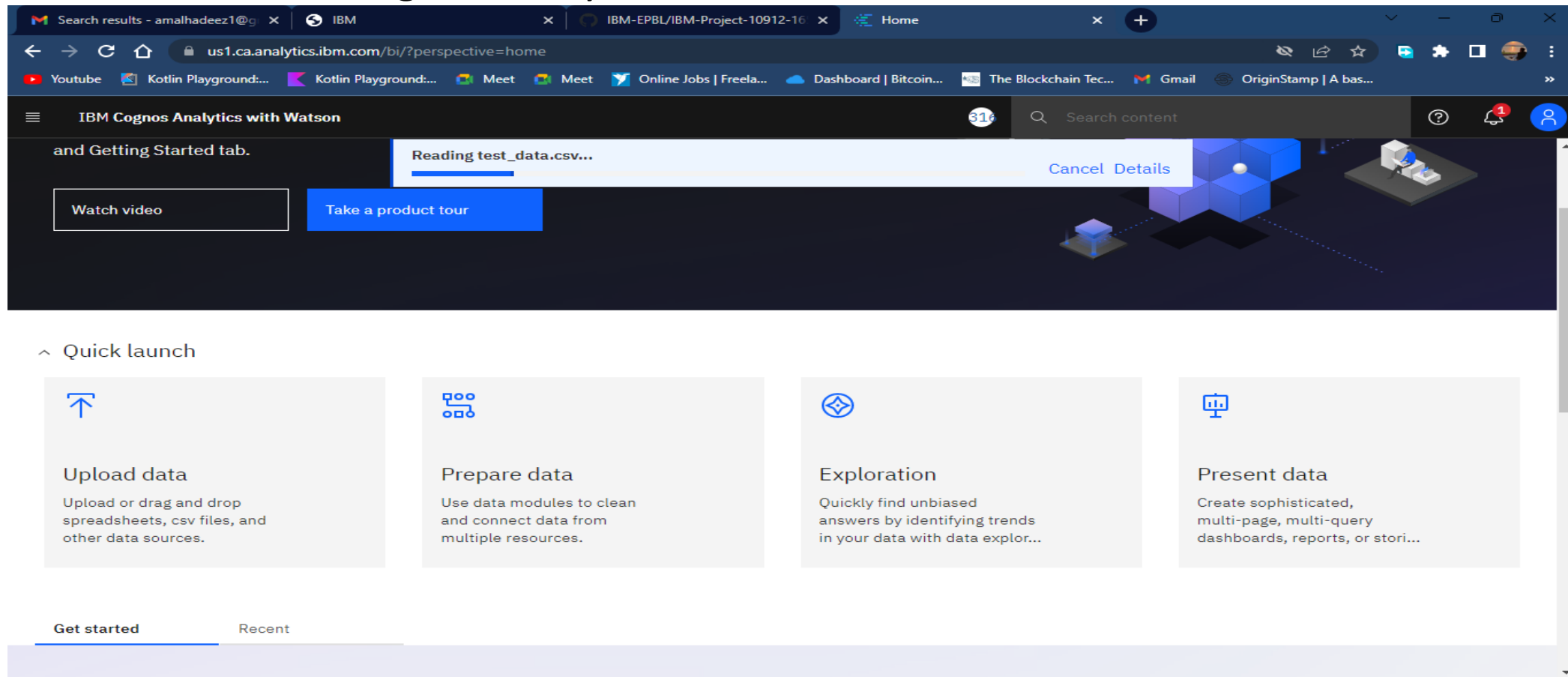
# Sprint-1:

**Data Collection:** Download the Dataset by this 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 shows the IBM Cognos Analytics interface. The top navigation bar includes the IBM logo, a search bar, and a 'Sprint 1' dropdown. The main content area is divided into a left sidebar and a main table view. The sidebar, titled 'Data module', contains a search bar and a list of data fields. The main table view, titled 'Grid', displays a table with 7 columns: Row Id, case\_id, Hospital\_code, Hospital\_type\_code, City\_Code\_Hospital, and Hospital\_region\_code. The table contains 11 rows of data.

Row Id	case_id	Hospital_code	Hospital_type_code	City_Code_Hospital	Hospital_region_code
1	318439	21	c	3	Z
2	318440	29	a	4	X
3	318441	26	b	2	Y
4	318442	6	a	6	X
5	318443	28	b	11	X
6	318444	23	a	6	X
7	318445	26	b	2	Y
8	318446	25	e	1	X
9	318447	23	a	6	X
10	318448	23	a	6	X
11	318449	10	e	1	X

# Null Values Cleaning Process :

The screenshot shows the 'Create calculation' dialog in IBM Cognos Analytics. The 'Name' field is set to 'City\_code\_Patient'. The 'Expression' field contains the following SQL-like code:

```
1 IF ( test_data_csv.City_Code_Patient IS missing )
2 THEN ( MEDIAN ( test_data_csv.City_Code_Patient ) )
3 ELSE ( test_data_csv.City_Code_Patient )
```

On the left, the 'Components' panel is open, showing a search bar and a list of categories: Operators, Summaries, Constants, and Constructs. Under 'Constructs', the 'if then else' option is selected.

At the bottom of the dialog, there are 'Cancel' and 'OK' buttons.

Search results - amalhadeez1@g...IBMIBM-EPBL/IBM-Project-10912-16Sprint 1

us1.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=i69DC7016C6D24BE28D5AC70DFCD304B2&objRef=i69DC7016C6D24BE28D5AC70DFC...  
YoutubeKotlin Playground:Kotlin Playground:MeetMeetOnline Jobs | Freela...Dashboard | Bitcoin...The Blockchain Tec...GmailOriginStamp | A bas...

IBM Cognos Analytics with WatsonSprint 1316Search content

Create calculation

NameCity\_code\_Patient

Components

Search

Operators

Summaries

Constants

Constructs

# if then else

# in\_range

# search case

# simple case

Business Da... Functions

Period Predicates

Vendor Spec... Functions

Expression

1 IF ( test\_data\_csv.Bed\_Grade IS missing )

2 THEN ( MEDIAN ( test\_data\_csv.Bed\_Grade ) )

3 ELSE ( test\_data\_csv.Bed\_Grade )

Validation Results

✓ The expression is valid.

Cancel

OK

Data module		Grid Relationships Custom tables				
Search						
abc	Hospital...ype_code					
	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					

Department	Ward_Type	Ward_Facility_Code	Bed Grade	patientid	City_Code_Patient
ynecology	S	A	2	17006	2
ynecology	S	F	2	17006	2
ynecology	Q	D	4	17006	2
ynecology	Q	F	2	17006	2
ynecology	R	F	2	17006	2
ynecology	Q	F	2	17006	2
ynecology	Q	D	2	17006	2
ynecology	S	E	3	95946	Null
ynecology	Q	F	3	95946	Null
ynecology	Q	F	4	95946	Null
ynecology	Q	E	2	95946	Null
ynecology	Q	F	2	95946	Null

# Hospital Data :

The screenshot shows the IBM Cognos Analytics web interface. The browser address bar displays the URL: `us1.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=i69DC7016C6D24BE28D5AC70DFCD304B2&objRef=i69DC7016C6D24BE28D5AC70...`. The page header includes the text "IBM Cognos Analytics with Watson" and a search bar. The main content area is titled "Data module" and features a "Grid" view of a data table. The table has columns for "Row Id", "case\_id", "Hospital\_code", "Hospital\_type\_code", "City\_Code\_Hospital", and "Hospital\_region\_c". The data is organized into 11 rows, each representing a hospital record. A sidebar on the left lists various data fields, with "Bed Grade" currently selected.

Row Id	case_id	Hospital_code	Hospital_type_code	City_Code_Hospital	Hospital_region_c
1	318439	21	c	3	Z
2	318440	29	a	4	X
3	318441	26	b	2	Y
4	318442	6	a	6	X
5	318443	28	b	11	X
6	318444	23	a	6	X
7	318445	26	b	2	Y
8	318446	25	e	1	X
9	318447	23	a	6	X
10	318448	23	a	6	X
11	318449	10	e	1	X

Search results - amalhadeez1@g...IBMIBM-EPBL/IBM-Project-10912-16Sprint 1

us1.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=i69DC7016C6D24BE28D5AC70DFCD304B2&objRef=i69DC7016C6D24BE28D5AC70...

YoutubeKotlin Playground:Kotlin Playground:MeetMeetOnline Jobs | Freel...Dashboard | Bitcoin...The Blockchain Tec...GmailOriginStamp | A bas...

IBM Cognos Analytics with WatsonSprint 1316Search content

Properties

Data module

Search

abc Hospital...type\_code

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

GridRelationshipsCustom tables

le_Patient	Type of Admission	Severity of Illness	Visitors with Patient	Age	Admission_Deposit
	Emergency	Moderate	2	71-80	3095
	Trauma	Moderate	4	71-80	4018
	Emergency	Moderate	3	71-80	4492
	Trauma	Moderate	3	71-80	4173
	Trauma	Moderate	4	71-80	4161
	Trauma	Moderate	2	71-80	4659
	Trauma	Moderate	2	71-80	4167
	Emergency	Moderate	2	31-40	4396
	Trauma	Moderate	2	31-40	4088
	Urgent	Moderate	2	31-40	3925
	Trauma	Moderate	2	31-40	4241



# Prepared data link :

[https://us1.ca.analytics.ibm.com/bi/?perspective=ca-modeller&pathRef=.my\\_folders%2FSprint%2B1](https://us1.ca.analytics.ibm.com/bi/?perspective=ca-modeller&pathRef=.my_folders%2FSprint%2B1)

