

# Project Development Phase

## Delivery Sprint-1

Date	29 Oct 2022
Team ID	PNT2022TMID39745
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

# Analytics For Hospital And Health-care Data

TEAM ID :PNT2022TMID39745



## TEAM MEMBERS:

- ☐ HEMALAKSHMI\*
- ☐ PONMATHI
- ☐ SOBITHA
- ☐ YUVASHRI

## 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

The screenshot displays the IBM Cognos Analytics web interface. The browser tabs at the top include 'Welcome to Project! Delig', 'IBM', 'My IBM', 'Content', and 'IBM-Project-17600-16596'. The address bar shows the URL: [us3.ca.analytics.ibm.com/bi/?perspective=content&tab=myContent&folder=i00CF0B0743F142A9AF26CA90578B3F84](https://us3.ca.analytics.ibm.com/bi/?perspective=content&tab=myContent&folder=i00CF0B0743F142A9AF26CA90578B3F84). The main header is 'IBM Cognos Analytics with Watson' with a 'Content' dropdown menu. A search bar labeled 'Search content' is present. The 'Content' view is active, showing a list of items under the 'My content' tab. The list includes two folders ('data module' and 'healthcare data') and one uploaded file ('Healthcare\_Data.zip'). The table has columns for 'Name', 'Type', and 'Last Accessed'. The system tray at the bottom shows the Windows taskbar with various application icons and the system clock indicating 12:30 on 14-11-2022.

Name	Type	Last Accessed
data module	Folder	9/7/2022, 9:22 AM
healthcare data	Folder	11/14/2022, 12:53 AM
Healthcare_Data.zip	Uploaded file	11/14/2022, 12:26 AM

## DATA PREPARATION:

## Prepare the Dataset

The screenshot shows the IBM Cognos Analytics web interface. On the left, the 'Data module' sidebar is open, showing a tree view with 'test\_data' and 'train\_data'. 'train\_data' is selected and highlighted. The main workspace displays a table view of the 'train\_data' module. The table has 10 rows and 6 columns. The columns are: 'Row Id' (with a sort icon), 'case\_id', 'Hospital\_code', 'Hospital\_type\_code', 'City\_Code\_Hospital', and 'Hosp'. The data in the table is as follows:

Row Id	case_id	Hospital_code	Hospital_type_code	City_Code_Hospital	Hosp
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

## NULL VALUES CLEANING PROCESS:

IBM Cognos Analytics with Watson

Learn More

298 Search content

### Edit calculation

Name City\_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 ( City_Code_Patient is missing )
2 THEN ( median ( City_Code_Patient ))
3 ELSE ( City_Code_Patient )
```

Validation Results

✓ The expression is valid.

12:14 14-11-2022

✕

Bed Grade



Q Search

- ▶ Operators

► Summaries

- Constants

## ▼ Constructs

- # if then else

# in\_range

# search case

- # simple case

- ▶ Business Data Functions

- ▶ Period Predicates

- ▶ Vendor Spec... Functions

```
1 IF (Bed_Grade is missing )
2 THEN      ( median (Bed_Grade  ) )
3 ELSE      ( Bed_Grade )
```

X

✔ The expression is valid.

IBM Cognos Analytics with Watson

\* New data module

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Search content

?

🔔

👤

Maintenance: Scheduled maintenance completed. Click More Info for details and to subscribe to future events

Dismiss

More info →

📁

🔗

↶

↷

🔗

📄

⚙️ Properties

📄

Data module

+

🕒

🔍 Search

▶️📍 Hospital...ion\_code

📄 Available...Hospital

▶️📄 Department

▶️📄 Ward\_Type

▶️📄 Ward\_Facility\_Code

📄 Bed Grade

📄 patientid

📍 City\_Code\_Patient

▶️📄 Type of Admission

▶️📄 Severity of Illness

📄 Visitors ...h Patient

▶️📄 Age

📄 Grid

🔗 Relationships

📄 Custom tables

↕	patientid	City_Code_Patient	Type of Admission	Severity of Illness	Visitors with Patient	Age
	31397	7	Emergency	Extreme	2	51-
	31397	7	Trauma	Extreme	2	51-
	31397	7	Trauma	Extreme	2	51-
	31397	7	Trauma	Extreme	2	51-
	31397	7	Trauma	Extreme	2	51-
	31397	7	Trauma	Extreme	2	51-
	31397	7	Emergency	Extreme	2	51-
	31397	7	Trauma	Extreme	2	51-
	31397	7	Trauma	Extreme	2	51-

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🔄

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12:18

14-11-2022

1

### HOSPITAL DATA:

[illegible]



**Data module** +

Search

- New data module
  - Navigation paths +
  - test\_data
  - train\_data
    - # Row Id
    - # case\_id
      - 1
      - 2
      - 3
      - 4
      - 5
      - 6
      - 7

Grid Relationships Custom tables

Severity of Illness	Visitors with Patient	Age	Admission_Deposit	Stay
Extreme	2	51-60	4911	0-10
Extreme	2	51-60	5954	41-50
Extreme	2	51-60	4745	31-40
Extreme	2	51-60	7272	41-50
Extreme	2	51-60	5558	41-50
Extreme	2	51-60	4449	11-20
Extreme	2	51-60	6167	0-10
Extreme	2	51-60	5571	41-50
Extreme	2	51-60	7223	51-60
Extreme	2	51-60	6056	31-40

PREPARED DATA LINK:

[https://us3.ca.analytics.ibm.com/bi/?perspective=ca-modeller&pathRef=.my\\_folders%2Fhealthcare%2Bdata%2FNew%2Bdata%2Bmodule](https://us3.ca.analytics.ibm.com/bi/?perspective=ca-modeller&pathRef=.my_folders%2Fhealthcare%2Bdata%2FNew%2Bdata%2Bmodule)

