

TEAM ID	PNT2022TMID48286
PROJECT TITTLE	Analytic's Hospital health care-data



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PROJECT DEVELOPMENT PHASE

Sprint-1: <input type="checkbox"/> Data Collection <input type="checkbox"/> Data Preparation	Sprint-3: <input type="checkbox"/> Dashboard Creation
Sprint-2: <input type="checkbox"/> Data Exploration	Sprint-4: <input type="checkbox"/> Report Creation <input type="checkbox"/> Story Creation

DELIVERY OF SPRINT-1

Sprint-1:

Data Collection

Download the Dataset Dataset link

<https://drive.google.com/file/d/1dysuP9UY4O6R9yWuFbJtNSzDFmocE0wH/view?usp=s>
[hare_link](#)

Load the Dataset:

Tool used: IBM Cognos Analytics

My IBM Home

us3.ca.analytics.ibm.com/bi/?perspective=home

Gmail YouTube Maps Online Word Editor

IBM Cognos Analytics with Watson

29 Search content

Hello. Welcome to Cognos Analytics with Watson.

You can get started right away by taking a look at our introduction video, product tour and Getting Started tab.

Watch video Take a product tour

Quick launch

Upload data Prepare data Exploration Present data

hospital_beds_USA....csv Show all

Open

EGON > EGON (E) >

Organize New folder

OneDrive - Person

EGON

3D Objects

Desktop

Documents

Downloads

Music

Pictures

Videos

Local Disk (C:)

EGON (E)

kanna

New folder

sample_sub

test_data

train_data

train_data_dictionary

File name: "train_data_dictionary" "sample_sub" "test_data" "train_data"

Custom Files

Open Cancel

Quick launch

Upload data Prepare data Exploration Present data

hospital_beds_USA....csv Show all

My IBM Home

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Select sources

My content

Type any text to filter items in this folder

sample_sub.csv
11/15/2022, 11:49 PM

test_data.csv
11/15/2022, 11:50 PM

train_data_dictionary.csv
11/15/2022, 11:48 PM

train_data.csv
11/15/2022, 11:50 PM

Filter by

Reset filters

Type

☐ Folders

☐ Packages

☐ Files

☐ Data sets

☐ Modules

Modified

☒ All

☐ Today

☐ Yesterday

☐ Past week

☐ Past month

hospital_beds_USA....csv Show all

Data Preparation:

Prepare the dataset

The screenshot shows the IBM Cognos Analytics interface. On the left, the 'Data module' pane lists 'train_data.csv' and 'test_data.csv'. The main grid view displays 11 rows of data with the following columns: Row Id, case_id, Hospital_code, Hospital_type_code, City_Code_Hospital, and Hospital_region_code.

Row Id	case_id	Hospital_code	Hospital_type_code	City_Code_Hospital	Hospital_region_code
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

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 code:

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

The 'Validation Results' section shows a green checkmark and the message: 'The expression is valid.'

At the bottom, there is a checkbox for 'Calculate after aggregation' and buttons for 'Cancel' and 'OK'.

IBM Cognos Analytics with Watson

Search content

Properties

Data module

Search

New data module

Navigation paths

train_data.csv

test_data.csv

Row Id

case_id

Hospital_code

Hospital...ype_code

City_Code_Hospital

Hospital...ion_code

Available...ospital

Department

Ward_Type

Ward_Facility_Code

Bed Grade

Grid

Relationships

Custom tables

	Ward_Facility_Code	Bed Grade	patientid	City_Code_Patient	Type of Admission	Sever
	F	2	31397	7	Emergency	Ext
	F	2	31397	7	Trauma	Ext
	E	2	31397	7	Trauma	Ext
	D	2	31397	7	Trauma	Ext
	D	2	31397	7	Trauma	Ext
	F	2	31397	7	Trauma	Ext
	B	3	31397	7	Emergency	Ext
	F	3	31397	7	Trauma	Ext
	B	4	31397	7	Trauma	Ext
	E	3	31397	7	Trauma	Ext
	B	2	31397	7	Urgent	Ext

Null Values Cleaning Process:

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Search content

Create calculation

Name: bed

Components

Search

Hospital...code

City_C...pital

Hospital...code

Availab...ospital

Department

Ward_Type

Ward...Code

Bed Grade

patientid

City_Co...atient

Type...ssion

Expression

```

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

```

Validation Results

The expression is valid.