

PROJECT DEVELOPMENT PHASE

SPRINT DELIVERY -1

TEAM ID : PNT2022TMID00760

PROJECT : Analytics for Hospitals Health-Care Data

DATE : 31 OCT 2022

Project Development Phase

Sprint-1:

- ✓ Data Collection
- ✓ Loading of data
- ✓ Data Preparation

Sprint-3:

- ✓ Dashboard Creation

Sprint-2:

- ✓ Data Exploration
- ✓ Data Visualization

Sprint-4:

- ✓ Report Creation
- ✓ Story Creation

1.HOSP TAL DATASET L NK

https://drive.google.com/file/d/1sIC0MhsJHeuODVkhIXrdNOX_aBDySSBh/view?usp=sharing

.2.UNDERSTANDING THE DATA

This project is based on understanding the Health Analytics dataset .

The data is spread across 3 data files (csv) and one data dictionary enclosed.

1.Test_data.csv

2.Sample_sub.csv

3.Train_data_dictionary.csv

4.Train_data.csv

The primary data file we use is test_data.csv consist of 17 Columns with 137057 Rows.

hospital data analytics

ⓘ ⋮ ⬆ New +

My content Team content Samples

Team content / hospital data analytics

⏏ ⬆ ⬆ ⬆ ⬆ ⬆ ⬆ ⬆ ⬆ ⬆ ⬆

<input type="checkbox"/>	Name	Type	Last Accessed	
<input type="checkbox"/>	sample_sub.csv CSV	Uploaded file	11/14/2022, 9:46 AM	⋮
<input type="checkbox"/>	SPRINT 1	Data module	11/14/2022, 9:59 PM	⋮
<input type="checkbox"/>	test_data.csv CSV	Uploaded file	11/14/2022, 9:47 AM	⋮
<input type="checkbox"/>	train_data_dictionary.csv CSV	Uploaded file	11/14/2022, 9:46 AM	⋮
<input type="checkbox"/>	train_data.csv CSV	Uploaded file	11/14/2022, 9:47 AM	⋮

- Connect the data to IBM Cognos.
- Cognos supports connecting to a wide variety of data, stored in a variety of places.
- Loading of the data set in IBM Cognos is important for analyzing.

Data module

Search

SPRINT 1

Navigation paths

- train_data.csv
- train_data_...tionary.csv
- test_data.csv
- sample_sub.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	i	2	Y

DATA PREPARATION

The screenshot displays the IBM Analytics web interface. At the top, a browser window shows the URL `us3.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=i69959F2C568449BC95AE44A87F892EB6&objRef=i69959F2C568...`. Below the browser, the application window has a header with a search bar and a list of components. The main area is divided into two panes: 'Components' on the left and 'Expression' on the right. The 'Components' pane shows a tree structure under 'SPRINT 1' with items like 'test_dat...Join (1)', 'sample_sub.csv', and 'test_data.csv'. The 'Expression' pane contains a code editor with the following SQL-like expression:

```
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)
4
```

Below the code editor, a 'Validation Results' section shows a green checkmark and the text 'The expression is valid.' At the bottom of the window, there is a checkbox labeled 'Calculate after aggregation' which is checked, and two buttons: 'Cancel' and 'OK'. The Windows taskbar at the very bottom shows the time as 11:55 AM on 04-Nov-22.

IBM Cognos Analytics with Watson

SPRINT 1

304

Search content

?

🔔

👤

Create calculation

Name

Calculation name

Components

Expression

🔍 Search

SPRINT 1

▶ 📄 test_data....- Join (1)

▶ 📄 sample_sub.csv

▶ 📄 test_data.csv

▶ 📄 train_data.csv

1 IF (test_data_csv.Bed_Grade is missing)

2 THEN (median(test_data_csv.Bed_Grade))

3 ELSE(test_data_csv.Bed_Grade)

4

Validate

Validation Results

✔ The expression is valid.

Replacing NULL into values

IBM Cognos Analytics with Watson | * SPRINT 1 | 304 | Search content | ? | Bell | User

Grid Relationships Custom tables

artment	Ward_Type	Ward_Facility_Code	Bed Grade	patientid	City_Code_Patient
ecology	R	F	2	17006	2
ecology	Q	F	2	17006	2
ecology	Q	D	2	17006	2
ecology	S	E	3	95946	7
ecology	Q	F	3	95946	7
ecology	Q	F	4	95946	7
ecology	Q	E	2	95946	7
ecology	R	F	3	95946	7
ecology	R	A	3	95946	7
ecology	R	F	4	95946	7
ecology	S	C	2	10728	8

Data module

Search

- Hospital...ion_code
- Available...Hospital
- abc Department
- abc Ward_Type
- abc Ward_Fa...ty_Code
- Bed Grade
- patientid
- City_Code_Patient
- abc Type of Admission
- abc Severity of Illness
- Visitors ...h Patient
- abc Age
- Admission_Deposit
- train_data.csv

Data module

Search

Hospital...ion_code

Available...Hospital

abc Department

abc Ward_Type

abc Ward_Fa...ty_Code

Bed Grade

patientid

City_Code_Patient

abc Type of Admission

abc Severity of Illness

Visitors ...h Patient

abc Age

Admission_Deposit

train_data.csv

Grid

Relationships

Custom tables

	Ward_Type	Ward_Facility_Code	Bed Grade	patientid	City_Code_Patient	Type of
	S	A	2	17006	2	Emerge
	S	F	2	17006	2	Trauma
	Q	D	4	17006	2	Emerge
	Q	F	2	17006	2	Trauma
	R	F	2	17006	2	Trauma
	Q	F	2	17006	2	Trauma
	Q	D	2	17006	2	Trauma
	S	E	3	95946	7	Emerge
	Q	F	3	95946	7	Trauma
	Q	F	4	95946	7	Urgent
	Q	F	2	95946	7	Trauma

PREPARED DATASET LINK:

https://us1.ca.analytics.ibm.com/bi/?perspective=ca-modeller&pathRef=.public_folders%2Fhospital%2Bdata%2Banalytics%2FSPRINT%2B1