

PROJECT DEVELOPMENT PHASE

SPRINT DELIVERY -1

TEAM ID : PNT2022TMID23753

BATCH NO : B6-6M2E

PROJECT : Analytics for Hospitals Health-Care Data

DATE : 8 NOV 2022

PROJECT DEVELOPMENT PHASE

Sprint 1

- **Data Collection**
- **Loading of data**
- **Data preparation**

Sprint 2

- **Data Exploration**
- **Data Visualization**

Sprint 3

- **Dashboard Creation**

Sprint 4

- **Report Creation**
- **Story Creation**

1.DATA COLLECTION

https://drive.google.com/drive/folders/1qozDgfVw04hGS8Di_SFhUNdUKUdjkhT?usp=sharing

UNDERSTANDING THE DATA

This project is based on understanding the Hospital dataset .

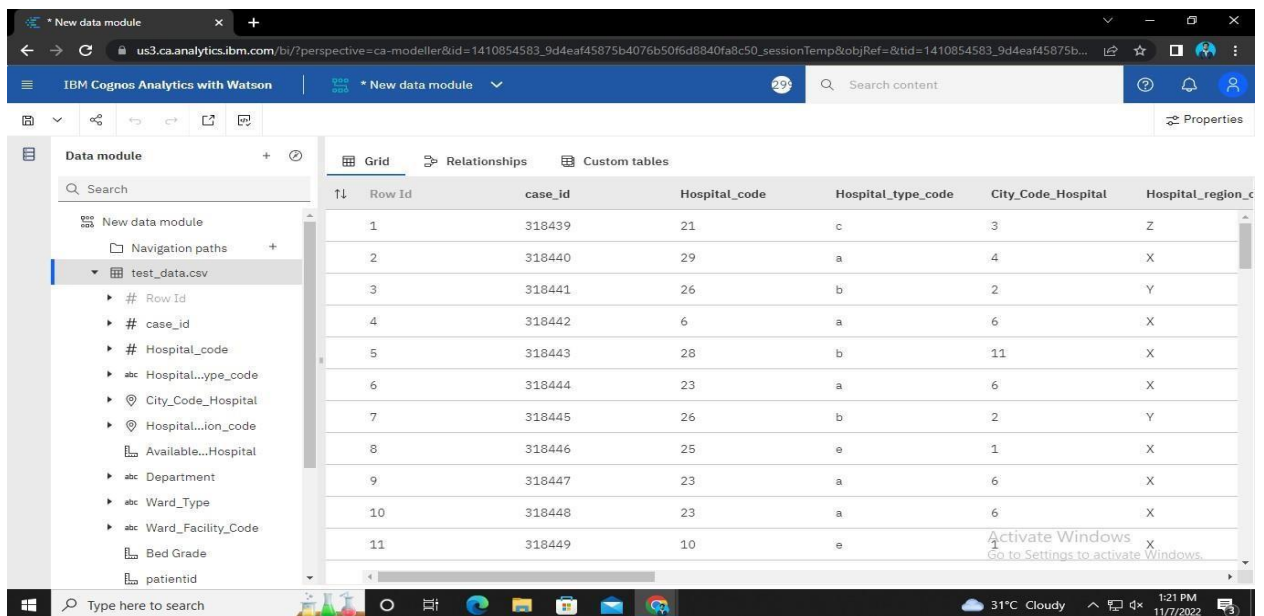
The data is spread across 3 data files (csv) and one data dictionary enclosed.

- 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.

2. Loading of Data

- 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.



The screenshot displays the IBM Cognos Analytics web interface. On the left, a sidebar shows the 'Data module' section with a search bar and a list of fields from the 'test_data.csv' file. The main area shows a table with 11 rows of data. The table has columns for 'Row Id', 'case_id', 'Hospital_code', 'Hospital_type_code', 'City_Code_Hospital', and 'Hospital_region_c'. The data is as follows:

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		

3. Data Preparation

The screenshot displays the IBM Cognos Analytics interface. On the left, a sidebar shows the 'Data module' section with a search bar and a list of navigation paths. The main area shows a table view of the 'test_data.csv' data module. The table has 11 rows and 6 columns: Row Id, case_id, Hospital_code, Hospital_type_code, City_Code_Hospital, and Hospital_region_c. The data is as follows:

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

The interface also includes a top navigation bar with the IBM Cognos Analytics logo and a search bar. The bottom of the screen shows a Windows taskbar with various application icons and a system tray displaying the date and time (11/7/2022, 1:21 PM).

Replacing Null into Values

The screenshot shows the IBM Cognos Analytics interface. On the left, the 'Data module' pane lists various data sources, with 'City_Code_Patient' selected. The main area displays a table with columns: 'rd_Type', 'Ward_Facility_Code', 'Bed Grade', 'patientid', 'City_Code_Patient', and 'Admission'. The 'City_Code_Patient' column contains several 'Null' values. A context menu is open over this column, with the 'Clean...' option highlighted. The menu also includes options like 'Filter...', 'Create calculation...', 'Create data group...', 'Create navigation path...', 'Hide from users', 'Remove', 'Format data...', 'Sort descending', 'Sort ascending', and 'Properties'.

rd_Type	Ward_Facility_Code	Bed Grade	patientid	City_Code_Patient	Admission
	A	2	17006	2	
	F	2	17006	2	
	D	4	17006	2	
	F	2	17006	2	
	F	2	17006	2	
	F	2	17006	2	
	D	2	17006	2	
	E	3	95946	Null	Trauma
	F	3	95946	Null	
	F	4	95946	Null	Urgent
	E	2	95946	Null	Trauma

IBM Cognos Analytics with Watson

us3.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=1410854583_9d4eaf45875b4076b50f6d8840fa8c50_sessionTemp&objRef=&tid=1410854583_9d4eaf45875b...

Search content

Properties

Data module

Grid Relationships Custom tables

Search

- Hospital...ype_code
- City_Code_Hospital
- 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
- Admission_Deposit

rd_Type

Ward_Facility_Code

Bed Grade

patientid

City_Code_Patient

Type of Admission

2

Emergency

2

Trauma

2

Emergency

2

Trauma

2

Trauma

2

Trauma

2

Trauma

Null

Emergency

F

3

95946

Null

Trauma

F

4

95946

Null

Urgent

E

2

95946

Null

Trauma

Activate Windows
Go to Settings to activate Windows.

Clean - City_Code_Patient

NULL values

☐ Replace this value with NULL

0

☒ Replace NULL values with

5

Cancel

Clean

Type here to search

29°C Cloudy

1:51 PM
11/7/2022

New data module

us3.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=1410854583_9d4eaf45875b4076b50f6d8840fa8c50_sessionTemp&objRef=&tid=1410854583_9d4eaf45875b...

IBM Cognos Analytics with Watson

New data module

29

Search content

Properties

Data module

Search

Hospital...ype_code

City_Code_Hospital

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

Admission_Deposit

Grid

Relationships

Custom tables

↑↓	ient	Ward_Type	Ward_Facility_Code	Bed Grade	patientid	City_Code_Patient	T
	igY	S	A	2	17006	2	
	igY	S	F	2	17006	2	
	igY	Q	D	4	17006	2	
	igY	Q	F	2	17006	2	
	igY	R	F	2	17006	2	
	igY	Q	F	2	17006	2	
	igY	Q	D	2	17006	2	
	igY	S	E	3	95946	5	
	igY	Q	F	3	95946	5	
	igY	Q	F	4	95946	5	
	igY	Q	E	2	95946	5	

Activate Windows
Go to Settings to activate Windows.

Type here to search

AMZN News Bullish

1:52 PM
11/7/2022

PREPARED DATA LINK

https://us3.ca.analytics.ibm.com/bi/?perspective=camodeler&pathRef=.my_folders%2FPREPARED%2BDATA