

PROJECT DEVELOPMENT PHASE

SPRINT DELIVERY -1

TEAM ID : PNT2022TMID09318

BATCH NO : B5-5M1E

PROJECT : Analytics for Hospitals Health-Care Data

DATE : 7 NOV 2022

Sprint-1:

- o Data Collection**
- o Loading of data**
- o Data Preparation**

Sprint-2:

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

Sprint-3:

- o Dashboard Creation**

Sprint-4:

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

1. DATA COLLECTION

HOSPITAL DATA SET

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 'Content' page. The top navigation bar includes the IBM Cognos Analytics with Watson logo, a 'Content' dropdown menu, a search bar, and user profile icons. Below the navigation bar, the 'Content' section is active, showing tabs for 'My content', 'Team content', and 'Samples'. A toolbar with various icons is visible above the content list. The content list table has columns for 'Name', 'Type', and 'Last Accessed'. The list contains five items: 'sample_sub.csv' (CSV, Uploaded file, 11/6/2022, 11:52 PM), 'sprint1' (Exploration, 11/7/2022, 12:20 AM), 'test_data.csv' (CSV, Uploaded file, 11/6/2022, 11:55 PM), 'train_data_dictionary.csv' (CSV, Uploaded file, 11/6/2022, 11:51 PM), and 'train_data.csv' (CSV, Uploaded file, 11/6/2022, 11:55 PM). A Windows watermark is visible in the bottom right corner.

Name	Type	Last Accessed
sample_sub.csv CSV	Uploaded file	11/6/2022, 11:52 PM
sprint1	Exploration	11/7/2022, 12:20 AM
test_data.csv CSV	Uploaded file	11/6/2022, 11:55 PM
train_data_dictionary.csv CSV	Uploaded file	11/6/2022, 11:51 PM
train_data.csv CSV	Uploaded file	11/6/2022, 11:55 PM

3.

DATA PREPARATION

IBM Cognos Analytics with Watson | * New data module | 299 | Search content | ? | Bell | User

Properties

Data module + ⌚

Search

New data module

Navigation paths +

test_data.csv

- # Row Id
- # case_id
- # Hospital_code
- abc Hospital...type_code
- City_Code_Hospital
- Hospital...ion_code
- Available...Hospital
- abc Department
- abc Ward_Type
- abc Ward_Facility_Code
- Bed Grade
- patientid

Grid Relationships Custom tables

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

Activate Windows
Go to Settings to activate Windows.

• Replacing NULL into values

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Search content

Properties

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

rd_Type	Ward_Facility_Code	Bed Grade	patientid	City_Code_Patient	Type of 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	
	F	3	95946	Null	Trauma
	F	4	95946	Null	Urgent
	E	2	95946	Null	Trauma

Filter...

Create calculation...

Create data group...

Create navigation path...

Hide from users

Remove

Format data...

Clean...

Sort descending

Sort ascending

Properties

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IBM Cognos Analytics with Watson

* New data module

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Search content

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Properties

Data module

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🔍 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

Grid

Relationships

Custom tables

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

Clean - City_Code_Patient

×

NULL values

☐ Replace this value with NULL

0

⬆

⬆

☒ Replace NULL values with

5

⬆


⬆


Cancel

Clean

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 Data module

 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

 Grid

 Relationships

 Custom tables

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

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PREPARED DATA LINK

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