

Project Development Phase Delivery of Sprint-1

Date	05 NOV 2022
Team ID	PNT2022TMID47062
Project Name	Analytics for Hospitals' Health-Care Data

Project Development Phase:

Sprint-1:

- Data Collection
- Data Preparation
- Data Exploration

Sprint-2:

Sprint-3:

- Dashboard Creation

Sprint-4:

- Report Creation

➤ Story Creation

TEAM ID : PNT2022TMID47062

Sprint-1:

Data Collection: Download the Dataset Dataset link :

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

Tool used: IBM Cognos Analytics

← → ↺

us3.ca.analytics.ibm.com/bi/?perspective=content&tab=myContent&folder=iFF358348157B4A5E8ADEDE64CBD98C17

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GATE - 2023

📺 TradingView India

📺 2:00:00

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📺 sckitlearn

📺 Deep Learning

📌 Other bookmarks

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📁 Content ▾

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📘 Maintenance: Scheduled maintenance completed. Click More Info for

Reading 2 files...

Cancel Details

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More info →

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<input type="checkbox"/>	Name	Type	Last Accessed	
<input type="checkbox"/>	📁 data_cleaning	Folder	24/09/2022, 8:17 AM	⋮
<input type="checkbox"/>	📁 data_dashboard	Folder	31/10/2022, 11:12 AM	⋮
<input type="checkbox"/>	📁 data_exploration	Folder	21/09/2022, 9:24 AM	⋮
<input type="checkbox"/>	📁 data_module	Folder	31/10/2022, 9:47 AM	⋮
<input type="checkbox"/>	📁 data_reports	Folder	21/09/2022, 9:05 AM	⋮
<input type="checkbox"/>	📁 data_story	Folder	24/09/2022, 1:48 AM	⋮
<input type="checkbox"/>	📁 dataset	Folder	21/09/2022, 7:53 AM	⋮

Data Preparation:

Prepare the Dataset

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Properties

Data module

Search

hospital_care_data

Navigation paths

train_data.csv

test_data.csv

Grid

Relationships

Custom tables

Row Id	case_id	Hospital_code	Hospital_type_code	City_Code_Hospital	Hospital_region_code	Available E...in Hospital	Department
1	1	8	c	3	Z	3	radiotherapy
2	2	2	c	5	Z	2	radiotherapy
3	3	10	e	1	X	2	anesthesia
4	4	26	b	2	Y	2	radiotherapy
5	5	26	b	2	Y	2	radiotherapy
6	6	23	a	6	X	2	anesthesia
7	7	32	f	9	Y	1	radiotherapy
8	8	23	a	6	X	4	radiotherapy
9	9	1	d	10	Y	2	gynecology
10	10	10	e	1	X	2	gynecology
11	11	22	g	9	Y	2	radiotherapy
12	12	26	b	2	Y	4	radiotherapy
13	13	16	c	3	Z	2	radiotherapy
14	14	9	d	5	Z	3	radiotherapy
15	15	6	a	6	X	4	gynecology
16	16	6	a	6	X	3	gynecology

Null Values Removing Process :

The screenshot displays the 'Edit calculation' window in IBM Cognos Analytics. The window title is 'Edit calculation'. The 'Name' field is set to 'City_Code_Patient'. The 'Expression' field contains the following SQL code:

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

The 'Components' panel on the left lists various functions and operators, including 'between', 'case', 'contains', 'currentMeasure', 'default', 'distinct', 'else', 'end', 'ends with', 'escape', 'for', 'for all', and 'for any'. The 'Validation Results' section at the bottom right shows a green checkmark and the message 'The expression is valid.'.

At the bottom of the dialog, there are 'Cancel' and 'OK' buttons.

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Edit calculation

Name

Bed Grade

Components

Expression

🔍

Search

▶ Operators

▶ Summaries

▶ Constants

▼ Constructs

if then else

in_range

search case

simple case

▶ Business Dat...e Functions

▶ Period Predicates

▶ Vendor Specific Functions

▶ Common Functions

▶ Macro Functions

1 IF (Bed_Grade is missing)

2 THEN (median (Bed_Grade))

3 ELSE(Bed_Grade)

Validate

Validation Results

✔ The expression is valid.

Cancel

OK

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Data module

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🔍 Search

📄 train_data.csv

▶ # Row Id

▶ # case_id

▶ # Hospital_code

▶ abc Hospital...pe_code

▶ 📍 City_Cod...Hospital

▶ 📍 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

📄 Admissio...Deposit

▶ abc Stay

▶ 📄 test_data.csv

📄 Grid

🔗 Relationships

📄 Custom tables

↕ ent	Ward_Type	Ward_Facility_Code	Bed Grade	patientid	City_Code_Patient	Type of Admission	Severity of Illness	Vis
apy	R	F	2	31397	7	Emergency	Extreme	
apy	S	F	2	31397	7	Trauma	Extreme	
ia	S	E	2	31397	7	Trauma	Extreme	
apy	R	D	2	31397	7	Trauma	Extreme	
apy	S	D	2	31397	7	Trauma	Extreme	
ia	S	F	2	31397	7	Trauma	Extreme	
apy	S	B	3	31397	7	Emergency	Extreme	
apy	Q	F	3	31397	7	Trauma	Extreme	
zy	R	B	4	31397	7	Trauma	Extreme	
zy	S	E	3	31397	7	Trauma	Extreme	
apy	S	B	2	31397	7	Urgent	Extreme	
apy	R	D	1	31397	7	Urgent	Extreme	
apy	R	A	3	31397	7	Emergency	Extreme	
apy	S	F	3	31397	7	Urgent	Extreme	
zy	Q	F	3	63418	8	Emergency	Extreme	
zy	Q	F	3	63418	8	Emergency	Extreme	

Hospital Data :

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Properties

Data ...dule

🔍 Search

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▶ abc S...

▶ 📊 V...

▶ abc Age

▶ 📊 A...

▶ abc Sta

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Grid

Relationships

Custom tables

↑ I Grade	patientid	City_Code_Patient	Type of Admission	Severity of Illness	Visitors with Patient	Age	Admission_Deposit	Stay
	31397	7	Emergency	Extreme	2	51-60	4911	0-10
	31397	7	Trauma	Extreme	2	51-60	5954	41-50
	31397	7	Trauma	Extreme	2	51-60	4745	31-40
	31397	7	Trauma	Extreme	2	51-60	7272	41-50
	31397	7	Trauma	Extreme	2	51-60	5558	41-50
	31397	7	Trauma	Extreme	2	51-60	4449	11-20
	31397	7	Emergency	Extreme	2	51-60	6167	0-10
	31397	7	Trauma	Extreme	2	51-60	5571	41-50
	31397	7	Trauma	Extreme	2	51-60	7223	51-60
	31397	7	Trauma	Extreme	2	51-60	6056	31-40
	31397	7	Urgent	Extreme	2	51-60	5797	21-30
	31397	7	Urgent	Extreme	2	51-60	5993	11-20
	31397	7	Emergency	Extreme	2	51-60	5141	0-10
	31397	7	Urgent	Extreme	2	51-60	8477	21-30
	63418	8	Emergency	Extreme	2	71-80	2685	0-10
	63418	8	Emergency	Extreme	2	71-80	9398	0-10

Prepared data link:

https://us3.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=3019265856_50f840fbf490471fbbedaff965b33127_sessionTemp&objRef=&tid=3019265856_50f840fbf490471fbbedaff965b33127_sessionTemp

