

Project Development Phase

Delivery of Sprint-1

Date	29 OCT 2022
Team ID	PNT2022TMID01911
Project Name	Analytics for Hospitals' Health-Care Data

Project Development Phase:

Sprint-1:

- Data Collection
- Data Preparation

Sprint-2:

- Data Exploration

Sprint-3:

- Dashboard Creation

Sprint-4:

- Report Creation
- Story Creation

TEAM ID : PNT2022TMID01911

Team member

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Sprint-1:

Data Collection: Download the Dataset Dataset link :

https://drive.google.com/drive/folders/1qozDgfVw04hGS8Di_SFhUNdUKUdjkhRT?usp=sharing **Load the Dataset:**

The screenshot shows the IBM Cognos Analytics web interface. The browser address bar displays the URL: `us3.ca.analytics.ibm.com/bi/?perspective=content&tab=myContent&folder=IFF358348157B4A5E8ADEDE64CBD98C17`. The top navigation bar includes the IBM Cognos Analytics logo, a 'Content' dropdown menu, and a search bar. A maintenance notification banner is visible. Below the navigation bar, the 'Content' section is active, showing a list of folders under the 'My content' tab. The folders are listed in a table with columns for Name, Type, and Last Accessed.

Name	Type	Last Accessed
data_cleaning	Folder	24/09/2022, 8:17 AM
data_dashboard	Folder	31/10/2022, 11:12 AM
data_exploration	Folder	21/09/2022, 9:24 AM
data_module	Folder	31/10/2022, 9:47 AM
data_reports	Folder	21/09/2022, 9:05 AM
data_story	Folder	24/09/2022, 1:48 AM
dataset	Folder	21/09/2022, 7:53 AM

Tool used: IBM Cognos Analytics

Data Preparation:

Prepare the Dataset

IBM Cognos Analytics with Watson

hospital_care_data

312

Search content

?

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Properties

Data module

+

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🔍 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

IBM Cognos Analytics with Watson

hospital_care_data

312

Search content

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Edit calculation

×

Name

City_Code_Patient

Components

Expression

24

🔍 Search

between

case

contains

currentMeasure

default

distinct

else

end

ends with

escape

for

for all

for any

1 IF (City_Code_Patient is missing)

2 THEN (median (City_Code_Patient))

3 ELSE City_Code_Patient)

Validation Results

×

✔ The expression is valid.

Cancel

OK

test_data.csv

IBM Cognos Analytics with Watson

hospital_care_data

312

Search content

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Edit calculation

Name

Bed Grade

Components

🔍 Search

▶ Operators

▶ Summaries

▶ Constants

▼ Constructs

if then else

in_range

search case

simple case

▶ Business Data Functions

▶ Period Predicates

▶ Vendor Specific Functions

▶ Common Functions

▶ Macro Functions

Expression

1 IF (Bed_Grade is missing)

2 THEN (median (Bed_Grade))

3 ELSE(Bed_Grade)

Validation Results

✓ The expression is valid.

Validate

24

Cancel

OK

+

Q Search

- ▶  test_data.csv

 Custom tables

ent	Ward_Type	Ward_Facility_Code	Bed Grade	patientid	City_Code_Patient	Type of Admission	Severity of Illness	Visi
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	
gy	R	B	4	31397	7	Trauma	Extreme	
gy	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	
gy	Q	F	3	63418	8	Emergency	Extreme	
gy	Q	F	3	63418	8	Emergency	Extreme	

IBM Cognos Analytics with Watson									
hospital_care_data									
Search content									
Properties									
Data module									
Grid Relationships Custom tables									
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									
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		

Data ...dule

Search

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Grid

Relationships

Custom tables

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 :

hospital_care_data

