

Project Development Phase

Delivery of Sprint-1

Date	29 OCT 2022
Team ID	PNT2022TMID16345
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 : PNT2022TMID16345

TEAM MEMBERS

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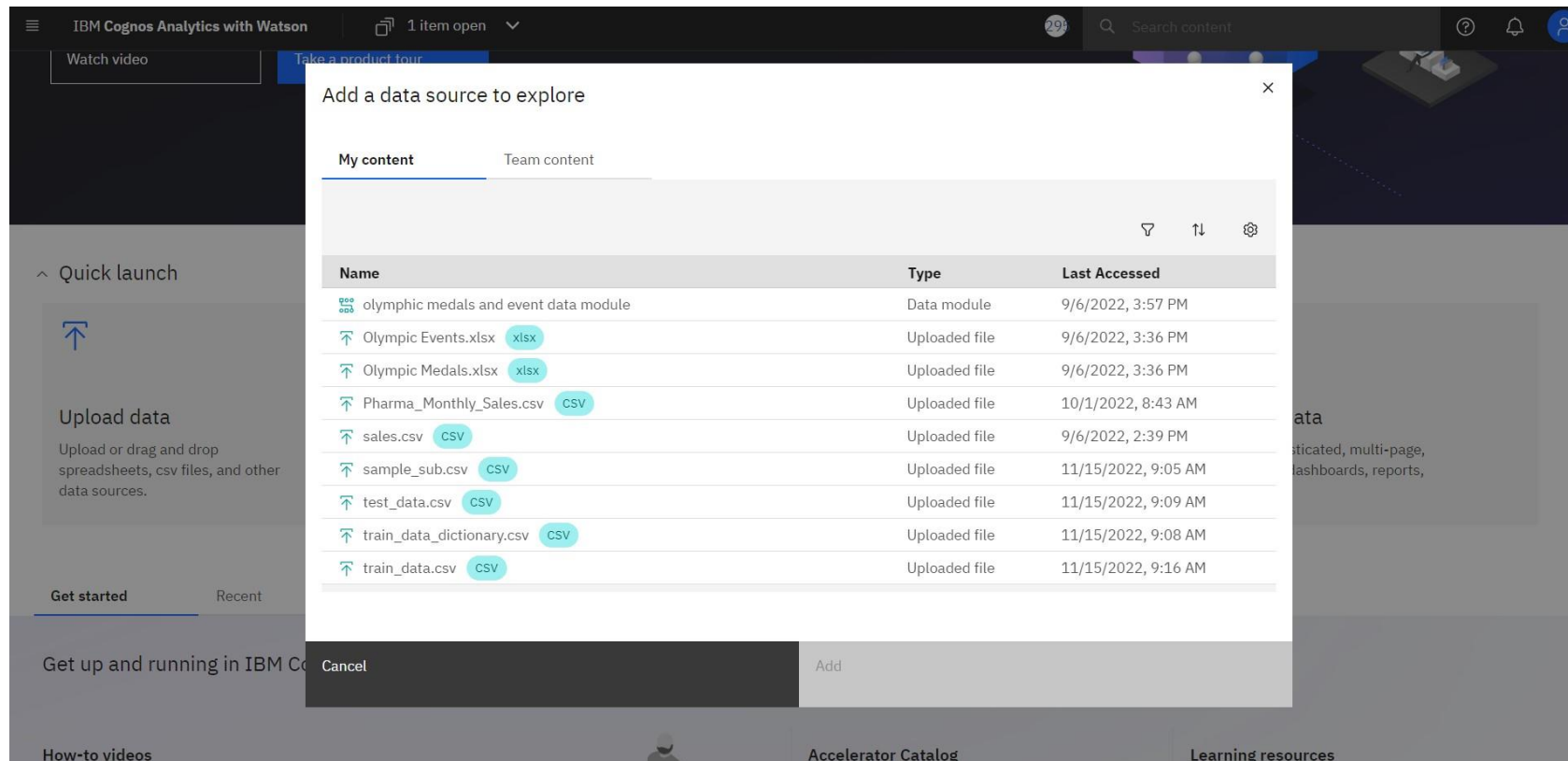
Sprint-1:

Data Collection: Download the Dataset Dataset link :

https://drive.google.com/drive/folders/1qozDgfVw04hGS8Di_SFhUNdUKUdjkhRT?usp=sharing

Load the Dataset:

Tool used: IBM Cognos Analytics



Data Preparation:

Prepare the Dataset

Id

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↻

Properties

Data module

+

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Q Search

New data module

Navigation paths

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▼

train_data.csv

▶

Row Id

▶

case_id

▶

Hospital_code

▶

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

Grid

Relationships

Custom tables

↑↓

Row Id

case_id

Hospital_code

Hospital_type_code

City_Code_Hospital

Hospital_region_code

Available E...in Ho

1

1

8

c

3

Z

3

2

2

2

c

5

Z

2

3

3

10

e

1

X

2

4

4

26

b

2

Y

2

5

5

26

b

2

Y

2

6

6

23

a

6

X

2

7

7

32

f

9

Y

1

8

8

23

a

6

X

4

9

9

1

d

10

Y

2

10

10

10

e

1

X

2

11

11

22

g

9

Y

2

12

12

26

b

2

Y

4

13

13

16

c

3

Z

2

14

14

9

d

5

7

3

Null Values Cleaning Process :

IBM Cognos Analytics with Watson

hospital_care_data

312

Search content

?

🔔

👤

Edit calculation

NameCity_Code_Patient

Components

Search

between
case
contains
currentMeasure
default
distinct
else
end
ends with
escape
for
for all
for any

Expression

```
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

?

🔔

👤

Edit calculation

×

Name

Bed Grade

Components

Expression

24

⌵

🔍 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

test_data.csv

Data module

Search

13

Hospit...n_code

X

Y

Z

Availab...ospital

abc Department

abc Ward_Type

abc Ward_F..._Code

Bed Grade

patientid

City_Co...atient

abc Type of...ission

abc Severit...Illness

Visitor...Patient

abc Age

Admiss...eposit

abc Stay

Grid

Relationships

Custom tables

	e E...in Hospital	Department	Ward_Type	Ward_Facility_Code	Bed Grade	patientid	City_Code_Patient	T
		radiotherapy	R	F	2	31397	7	
		radiotherapy	S	F	2	31397	7	
		anesthesia	S	E	2	31397	7	
		radiotherapy	R	D	2	31397	7	
		radiotherapy	S	D	2	31397	7	
		anesthesia	S	F	2	31397	7	
		radiotherapy	S	B	3	31397	7	
		radiotherapy	Q	F	3	31397	7	
		gynecology	R	B	4	31397	7	
		gynecology	S	E	3	31397	7	
		radiotherapy	S	B	2	31397	7	
		radiotherapy	R	D	1	31397	7	
		radiotherapy	R	A	3	31397	7	
		radiotherapy	S	F	3	31397	7	

Hospital Data :

Properties

<

Data module

Search

New data module

Navigation paths

train_data.csv

- City_co...atient
- # Row Id
- # case_id
- # Hospital_code
- abc Hospit...e_code
- City_Co...spital
- Hospit...n_code
- Availab...ospital
- abc Department
- abc Ward_Type
- abc Ward_F..._Code
- Bed Grade
- patientid
- City_Co...atient
- abc Type of lesion

Grid

Relationships

Custom tables

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

Prepared data link :

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

