

Project Development Phase

Delivery of Sprint-1

Date	09NOV2022
Team ID	PNT2022TMID38818
Project Name	Analytics for Hospitals' Health-Care Data

Sprint-1:

- Data Collection
- Data Preparation

Sprint-2:

- Data Exploration

Sprint-3:

- Dashboard Creation

Sprint-4:

- Report Creation
- Story Creation

Sprint-1:

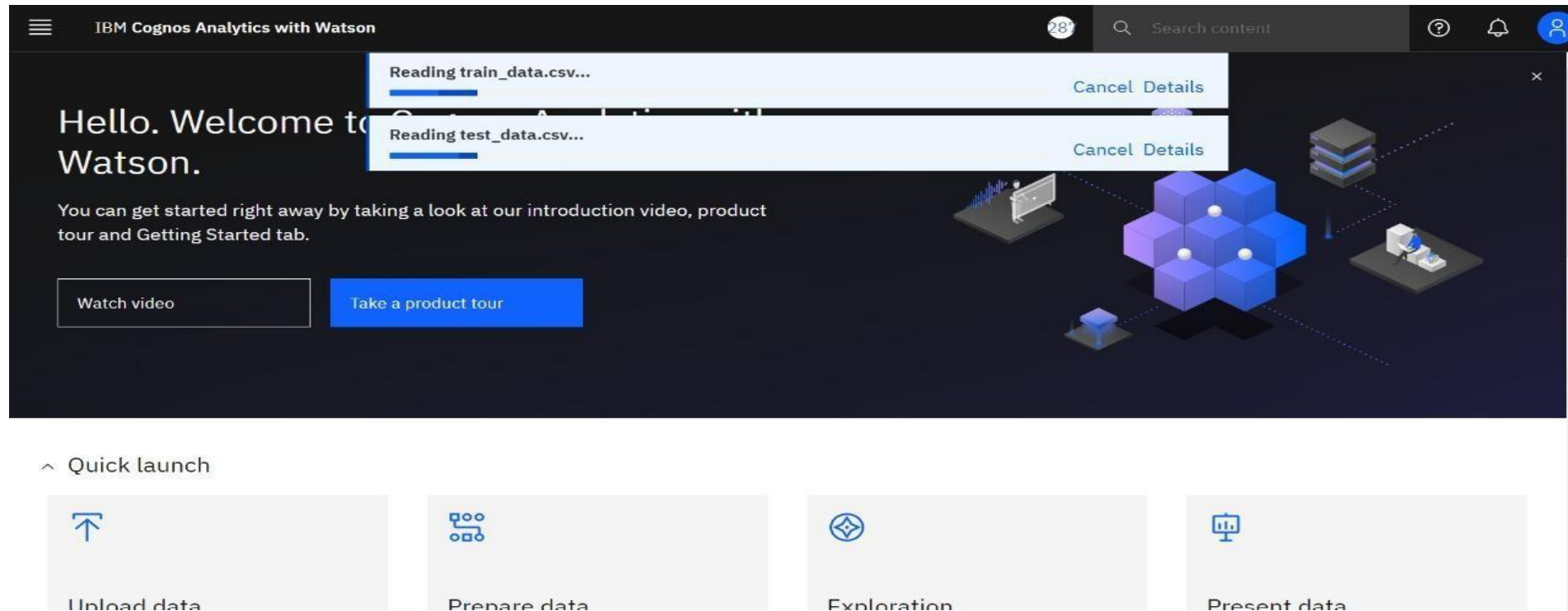
Data Collection

Download the Dataset link:

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

Load the Dataset:

Tool used: IBM Cognos Analytics



Data Preparation

Prepare the Dataset

IBM Cognos Analytics with Watson

sprint 1

30°

Search content

?

Grid

Relationships

Custom tables

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

Data ...dule

Search

abc H...

C...

H...

A...

abc D...

abc W...

abc W...

B...

p...

C...

abc T...

abc S...

V...

abc Age

A...

abc Stay

te...sv

Null Values Cleaning Process :

Create calculation

Name

City_Code_Patient_Calculation

Components

Search

train_data.csv

Row Id

case_id

Hospital_code

abc Hospit..._code

City_Co...spital

Hospit..._code

Availabl...Hospital

abc Department

abc Ward_Type

abc Ward_..._Code

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.

Create calculation

Name Bed_Grade_Calculation

Components



Search



train_data.csv



City_Cod...culation



▶ # Row Id

▶ # case_id

▶ # Hospital_code

▶ abc Hospit..._code

▶ City_Co...spital

▶ Hospit..._code



Availabl...Hospital

▶ abc Department

▶ abc Ward_Type

Expression





14





```
1 if( Bed_Grade is missing)
2   then(median(Bed_Grade))
3   else(Bed_Grade)
```


Validation Results


✓ The expression is valid.


 Data ...dule + 


 Search


 abc H...


 C...


 H...


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 abc W...


 B...


 p...


 C...


 abc T...


 abc S...


 V...


 abc Age


 A...

 abc Stay

 te...sv

 Grid

 Relationships

 Custom tables

↕	Row Id	case_id	Hospital_code	Hospital_type_code	City_Code_Hospital	Hospital_region_code	Available E...in Hospital	Depart
	1	1	8	c	3	Z	3	radio
	2	2	2	c	5	Z	2	radio
	3	3	10	e	1	X	2	anes
	4	4	26	b	2	Y	2	radio
	5	5	26	b	2	Y	2	radio
	6	6	23	a	6	X	2	anes
	7	7	32	f	9	Y	1	radio
	8	8	23	a	6	X	4	radio
	9	9	1	d	10	Y	2	gyne
	10	10	10	e	1	X	2	gyne
	11	11	22	g	9	Y	2	radio
	12	12	26	b	2	Y	4	radio
	13	13	16	c	3	Z	2	radio

📄 Data ...dule + ⌚

🔍 Search

▶ abc H...

▶ 📍 C...

▶ 📍 H...

📄 A...

▶ abc D...

▶ abc W...

▶ abc W...

📄 B...

📄 p...

📍 C...

▶ abc T...

▶ abc S...

📄 V...

▶ abc Age

📄 A...

▶ abc Sta

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📄 Grid

🔗 Relationships

📄 Custom tables

↕	City_Code_Patient	Type of Admission	Severity of Illness	Visitors with Patient	Age	Admission_Deposit	Stay
	7	Emergency	Extreme	2	51-60	4911	0-10
	7	Trauma	Extreme	2	51-60	5954	41-50
	7	Trauma	Extreme	2	51-60	4745	31-40
	7	Trauma	Extreme	2	51-60	7272	41-50
	7	Trauma	Extreme	2	51-60	5558	41-50
	7	Trauma	Extreme	2	51-60	4449	11-20
	7	Emergency	Extreme	2	51-60	6167	0-10
	7	Trauma	Extreme	2	51-60	5571	41-50
	7	Trauma	Extreme	2	51-60	7223	51-60
	7	Trauma	Extreme	2	51-60	6056	31-40
	7	Urgent	Extreme	2	51-60	5797	21-30
	7	Urgent	Extreme	2	51-60	5993	11-20
	7	Emergency	Extreme	2	51-60	5141	0-10

