Project Development Phase
Delivery of Sprint-1

Date	31 OCT 2022
Team ID	PNT2022TMID54193
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

ANALYTICS FOR HOSPITAL HEALTHCARE

TEAM MEMBERS:

Team lead-Tamilselvi

Team member 1-Nitha

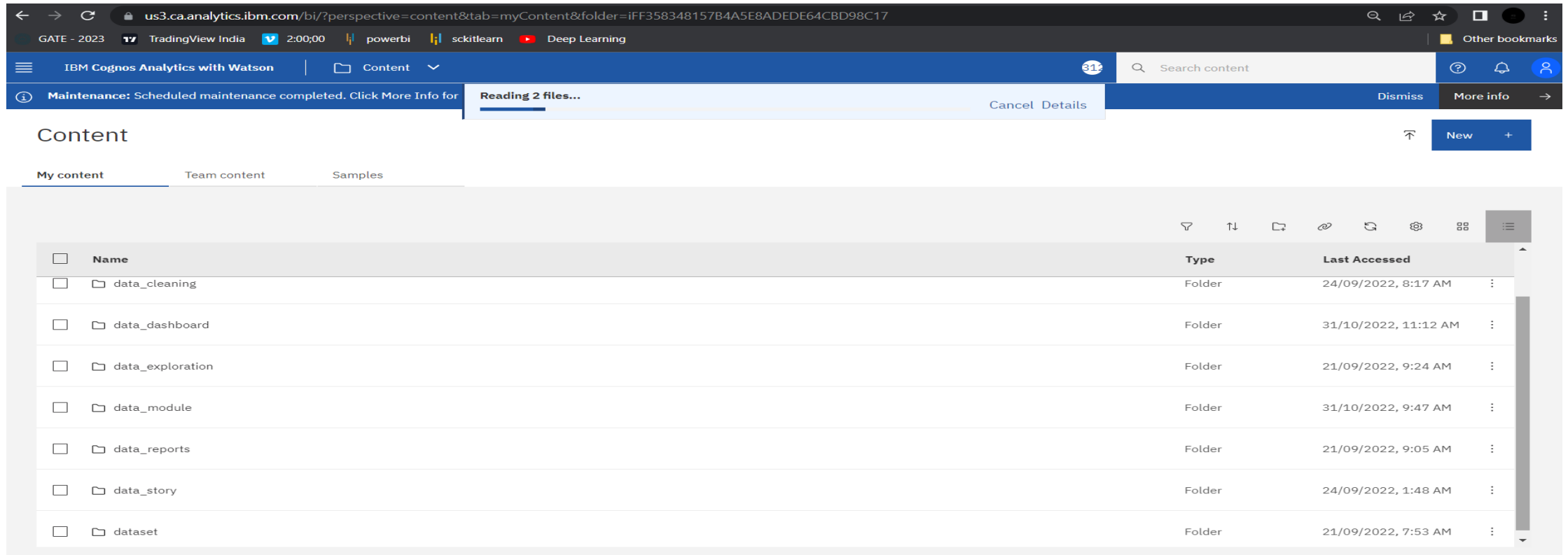Team member 2-Selvendran

Team member 3-Mushraf

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

Null Values Cleaning Process :

Edit calculation

Name Bed Grade

Components

Expression

Validate 24 ∨

- ▸ 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 )
```

Validation Results

✓ The expression is valid.

Cancel

OK

▸ ⊞ test_data.csv

Properties

Data module + ⊘

⊞ Grid   ⤳ Relationships   ⊞ Custom tables

🔍 Search

	ent	Ward_Type	Ward_Facility_Code	Bed Grade	patientid	City_Code_Patient	Type of Admission	Severity of Illness	Vi
	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	

Data module tree:
- ▼ ⊞ 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

Hospital Data :

Properties

Data ...dule   +   ⊘

🔍 Search

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&pathRef=.my_folders%2Fdata_module%2F
hospital_care_data