Project Development Phase
Delivery of Sprint-1

Date	02 NOV 2022
Team ID	PNT2022TMID26228
Project Name	Analytics for Hospital 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
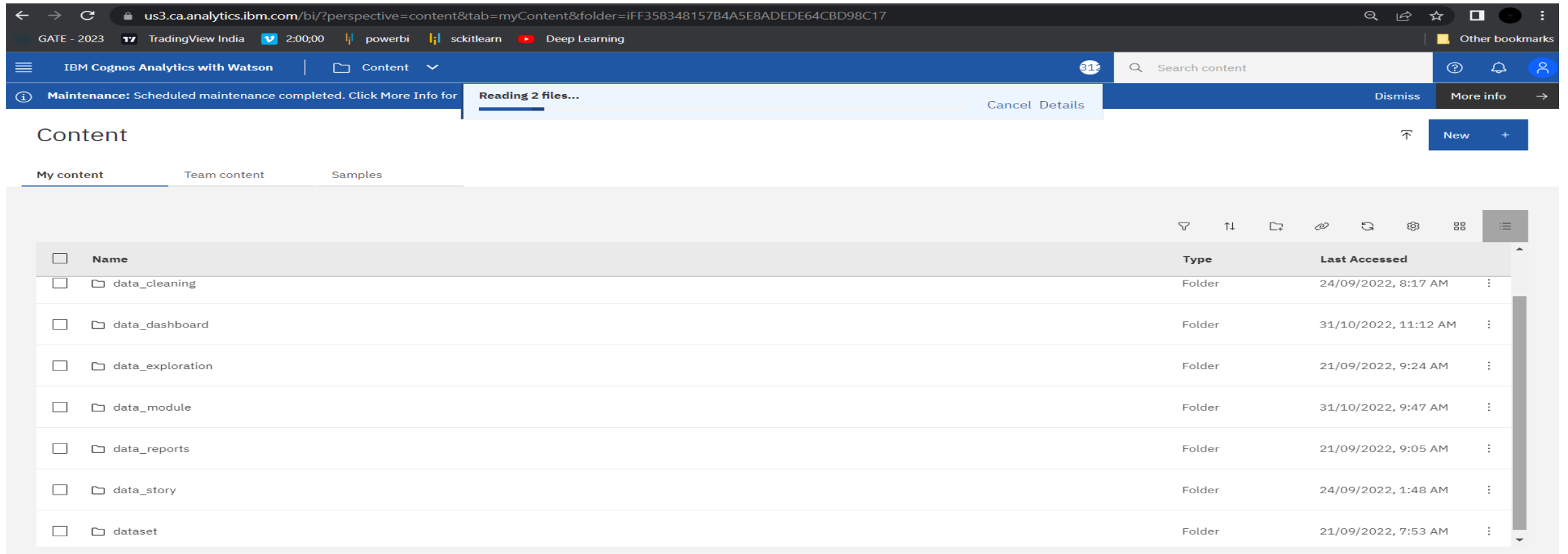
TEAM ID : PNT2022TMID26228

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

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

- ▸ 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

Validation Results

✓ The expression is valid.

Cancel

OK

▸ ⊞ test_data.csv

💾 ˅   ⌘   ↶ ↷   ⌷ ⧉   ⚙ Properties

| | Grid | 🕸 Relationships | ⊞ Custom tables |

↑↓ 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 + ⊘

🔍 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

Hospital Data :

Data ...dule   +   ⊘

🔍 Search

▼ ⊞ tr...sv
  ▶ # R...
  ▶ # c...
  ▶ # H...
  ▶ abc H...
  ▶ ⊙ C...
  ▶ ⊙ H...
    L A...
  ▶ abc D...
  ▶ abc ...
  ▶ abc ...
    L B...
    L p...
    ⊙ C...
  ▶ abc T...
  ▶ abc S...
    L V...
  ▶ abc Age
    L A...
  ▶ abc Sta
  ▶ ⊞ te...sv

| ⊞ Grid | Relationships | Custom tables |

↕ l 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%2Fhospital_care_data