Project Development Phase
Delivery of Sprint-1

Date	29 OCT 2022
Team ID	PNT2022TMID23353
Project Name	Analytics for Hospitals' HealthCare Data

Project Development Phase:

Sprint1:

- Data Collection
- Data Preparation

Sprint-2

- Data Exploration

Sprint-3:

- Dashboard
- Creation

Sprint-4:

- Report Creation
- Story Creation

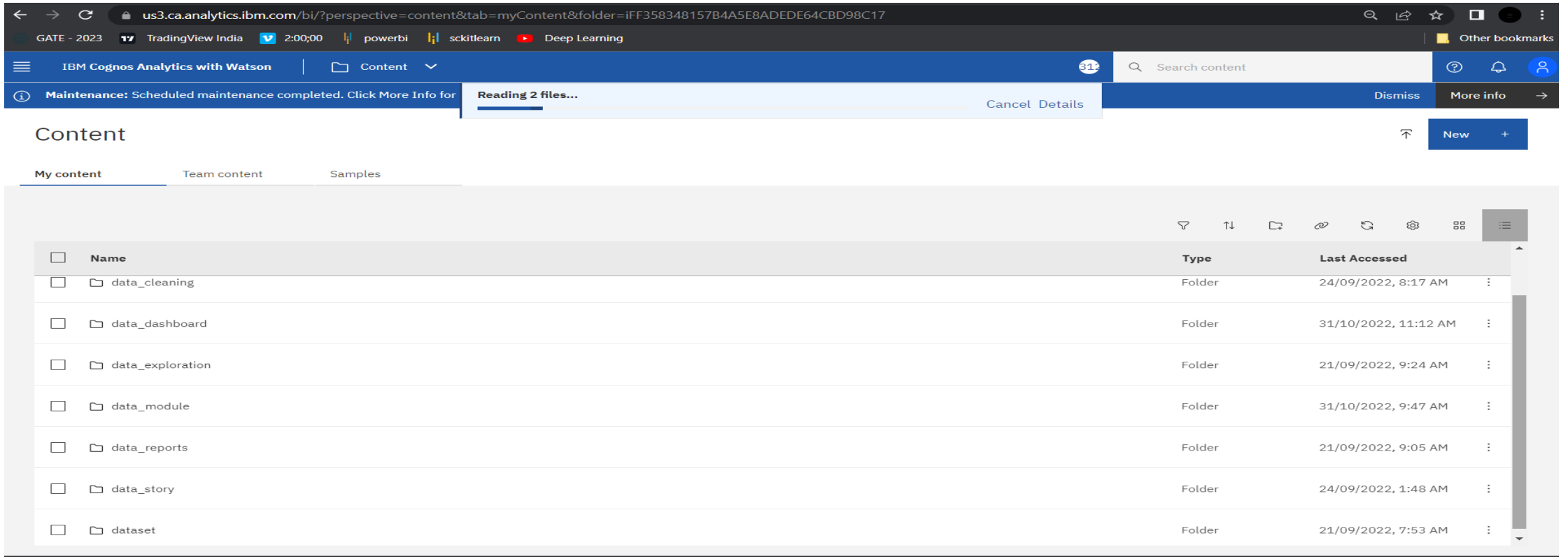
Sprint-1:

Data Collection:

Download the Dataset Dataset link : https://drive.google.com/drive/folders/1qozDgfVw04hGS8Di_SFhUNdUKUdjkhrT

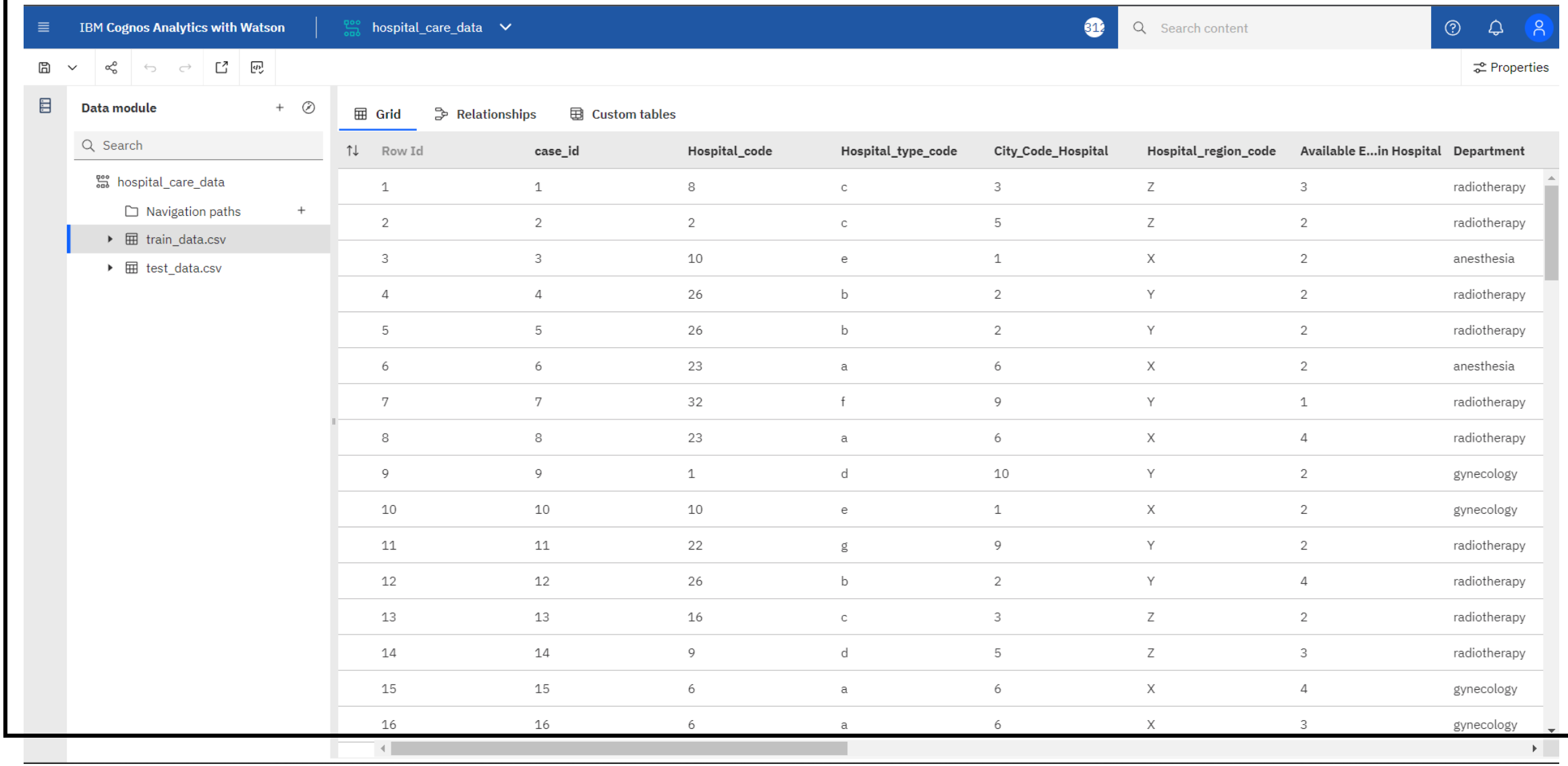
Load the Dataset:

Tool used: IBM Cognos Analytics


us3.ca.analytics.ibm.com/bi/?perspective=content&tab=myContent&folder=iFF358348157B4A5E8ADEDE64CBD98C17
GATE - 2023
TradingView India
2:00;00
powerbi
sckitlearn
Deep Learning
Other bookmarks
IBM Cognos Analytics with Watson
Content
Search content
Maintenance: Scheduled maintenance completed. Click More Info for
Reading 2 files...
Cancel
Details
Dismiss
More info
Content
New
My content
Team content
Samples
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

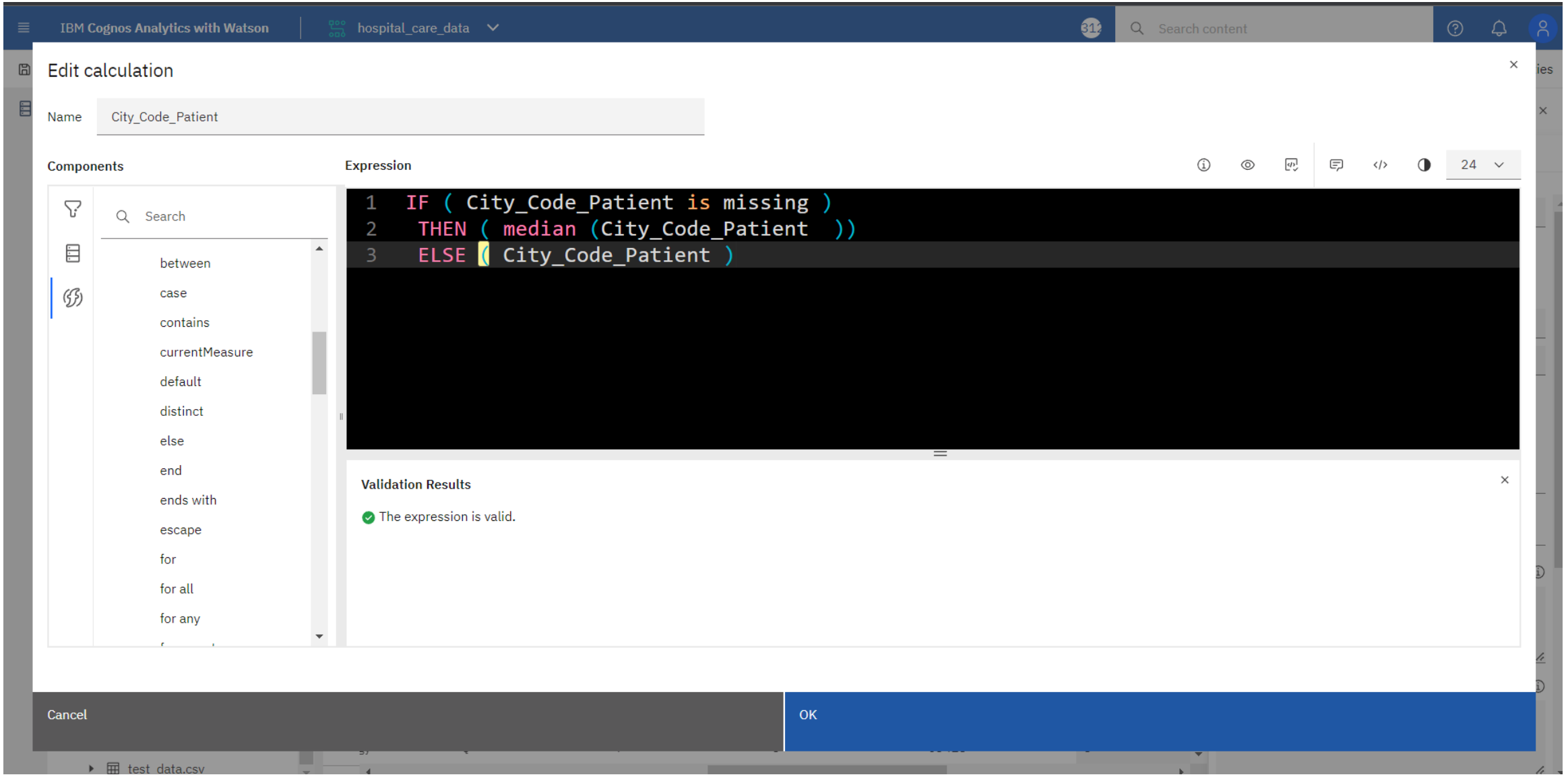
Data Preparation:

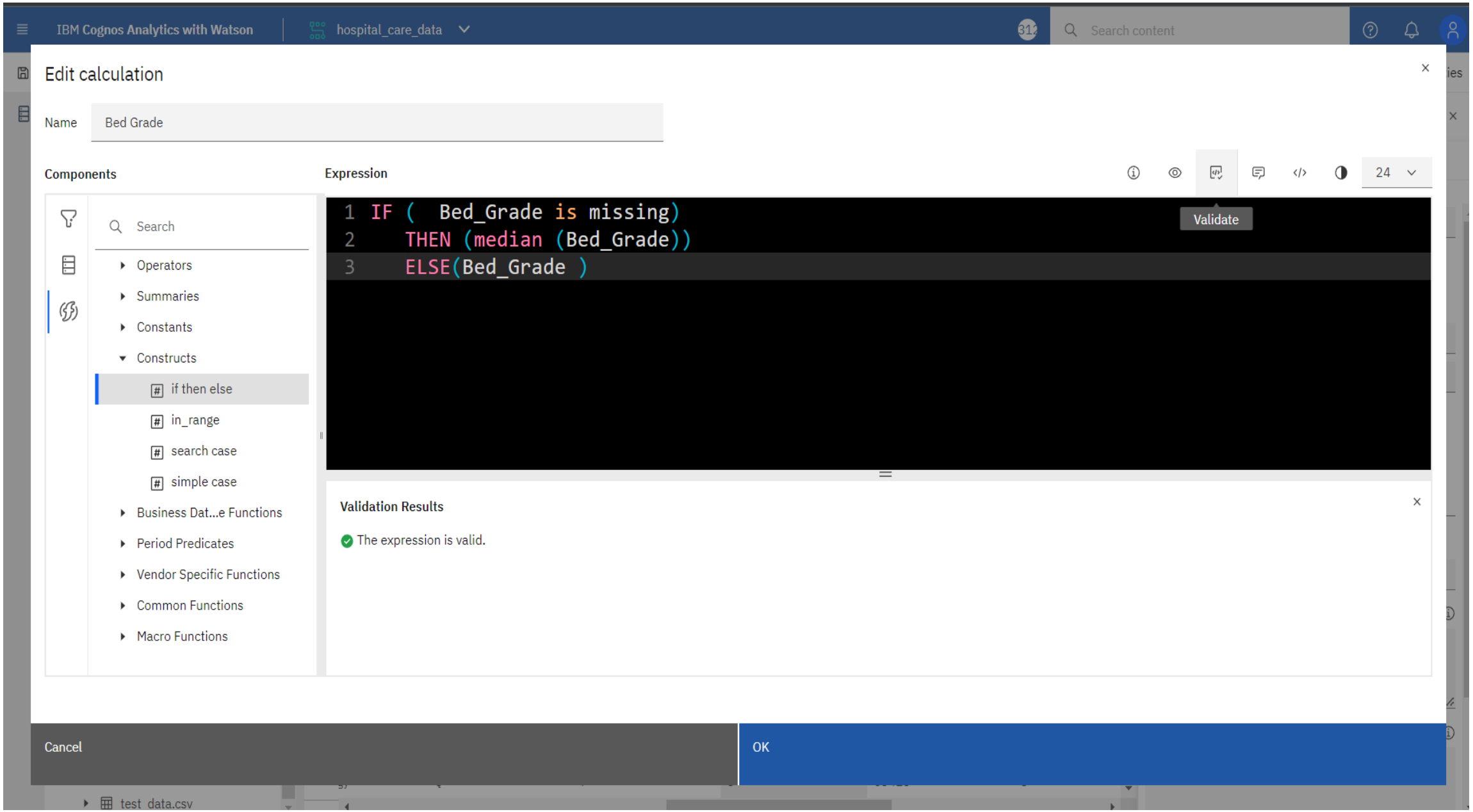
Prepare the Dataset

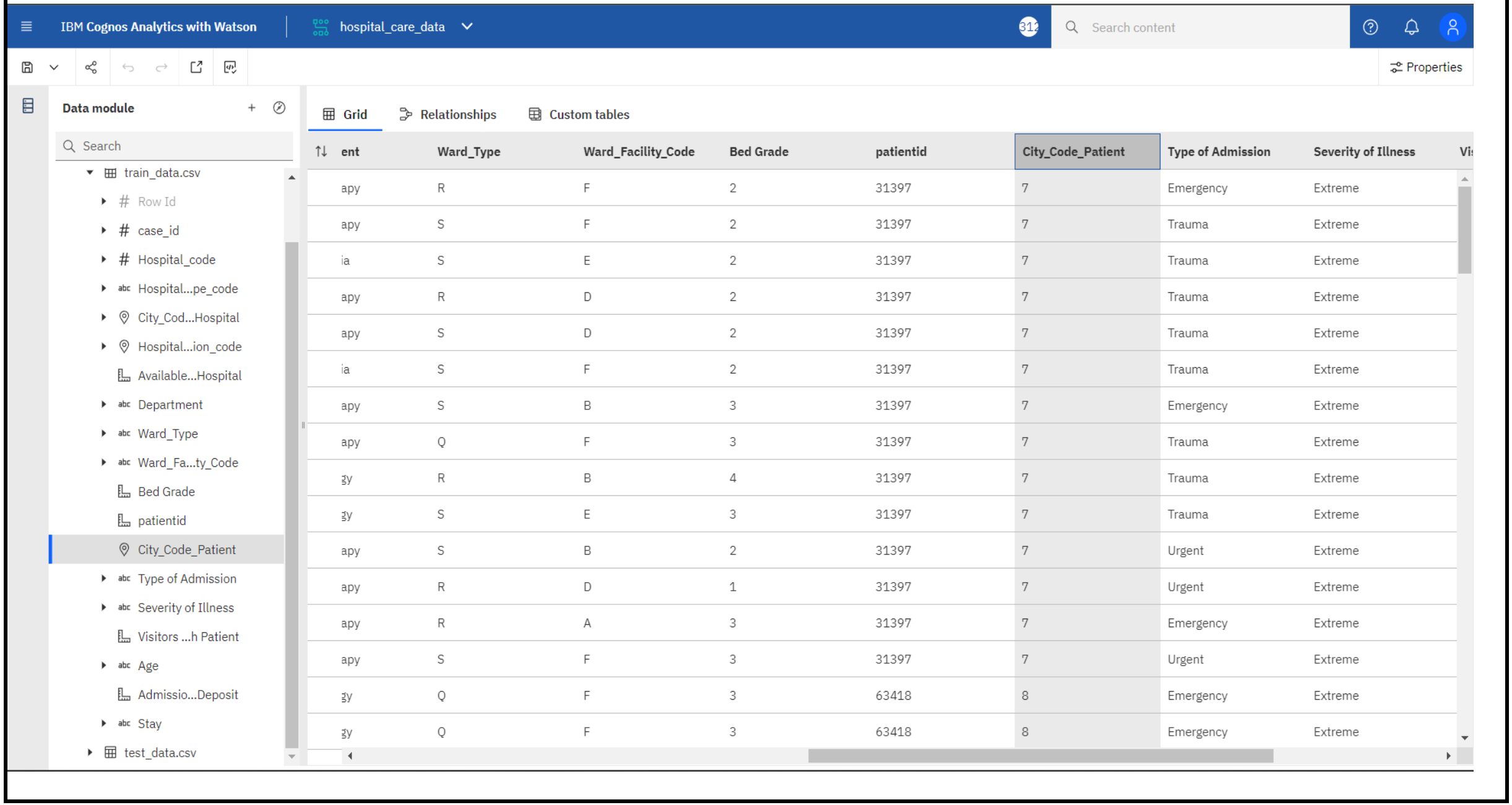


Row Id	case_id	Hospital_code	Hospital_type_code	City_Code_Hospital	Hospital_region_code	Available E...in Hospital	Department
1	1	8	c	3	Z	3	radiotherapy
2	2	2	c	5	Z	2	radiotherapy
3	3	10	e	1	X	2	anesthesia
4	4	26	b	2	Y	2	radiotherapy
5	5	26	b	2	Y	2	radiotherapy
6	6	23	a	6	X	2	anesthesia
7	7	32	f	9	Y	1	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

Null Values Cleaning Process :

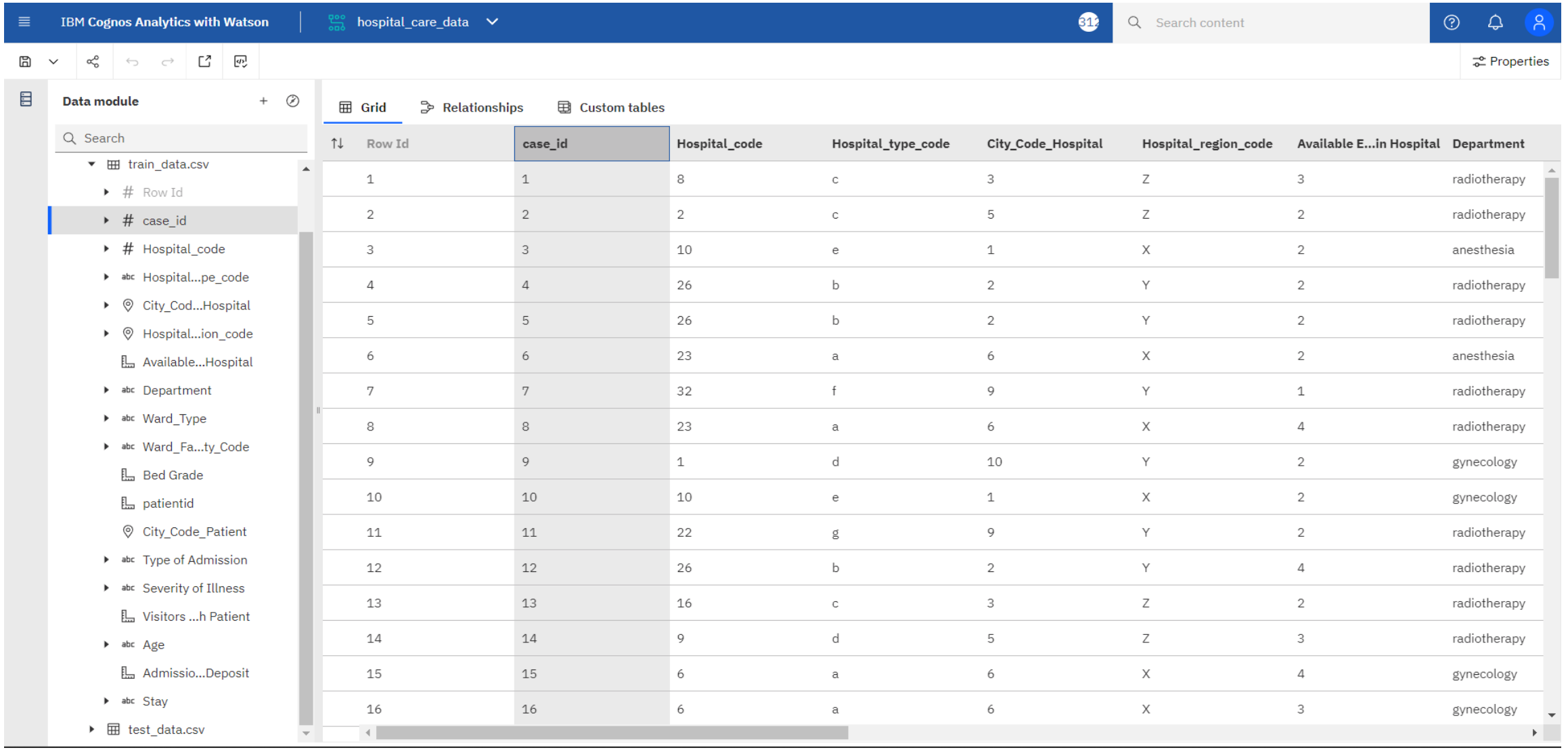



IBM Cognos Analytics with Watson
hospital_care_data
Search content
Edit calculation
Name
Bed Grade
Components
Expression
Search
Operators
Summaries
Constants
Constructs
if then else
in_range
search case
simple case
Business Dat...e Functions
Period Predicates
Vendor Specific Functions
Common Functions
Macro Functions
1 IF (Bed_Grade is missing)
2 THEN (median (Bed_Grade))
3 ELSE(Bed_Grade)
Validate
24
Validation Results
The expression is valid.
Cancel
OK
test_data.csv



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	

Hospital Data :



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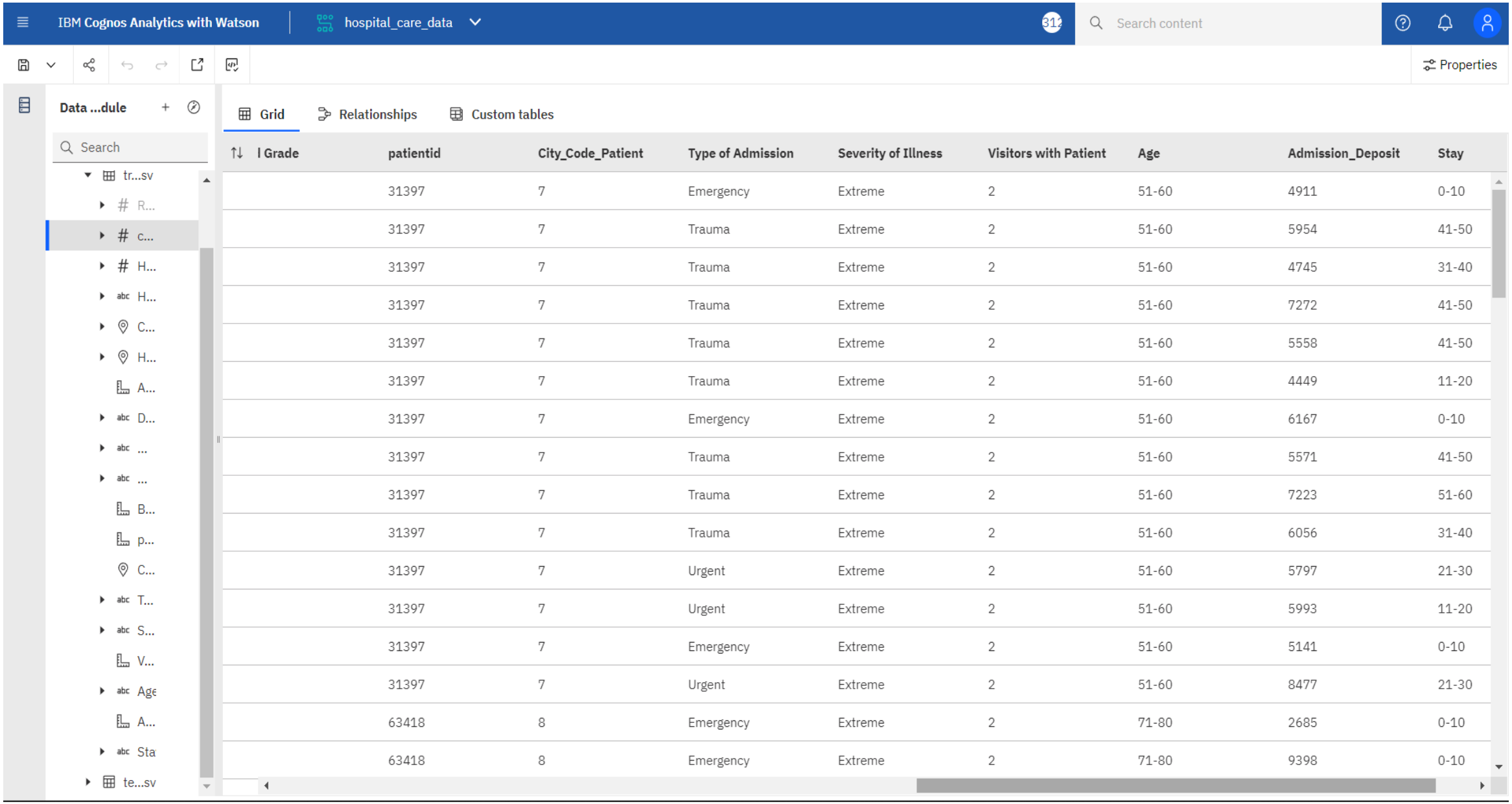
5	5	26	b	2	Y	2	radiotherapy
6	6	23	a	6	X	2	anesthesia
7	7	32	f	9	Y	1	radiotherapy
8	8	23	a	6	X	4	radiotherapy
9	9	1	d	10	Y	2	gynecology
10	10	10	e	1	X	2	gynecology
11	11	22	g	9	Y	2	radiotherapy
12	12	26	b	2	Y	4	radiotherapy
13	13	16	c	3	Z	2	radiotherapy
14	14	9	d	5	Z	3	radiotherapy
15	15	6	a	6	X	4	gynecology
16	16	6	a	6	X	3	gynecology



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