Project Development Phase
Delivery of Sprint-1

Date	29 OCT 2022
Team ID	PNT2022TMID08776
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

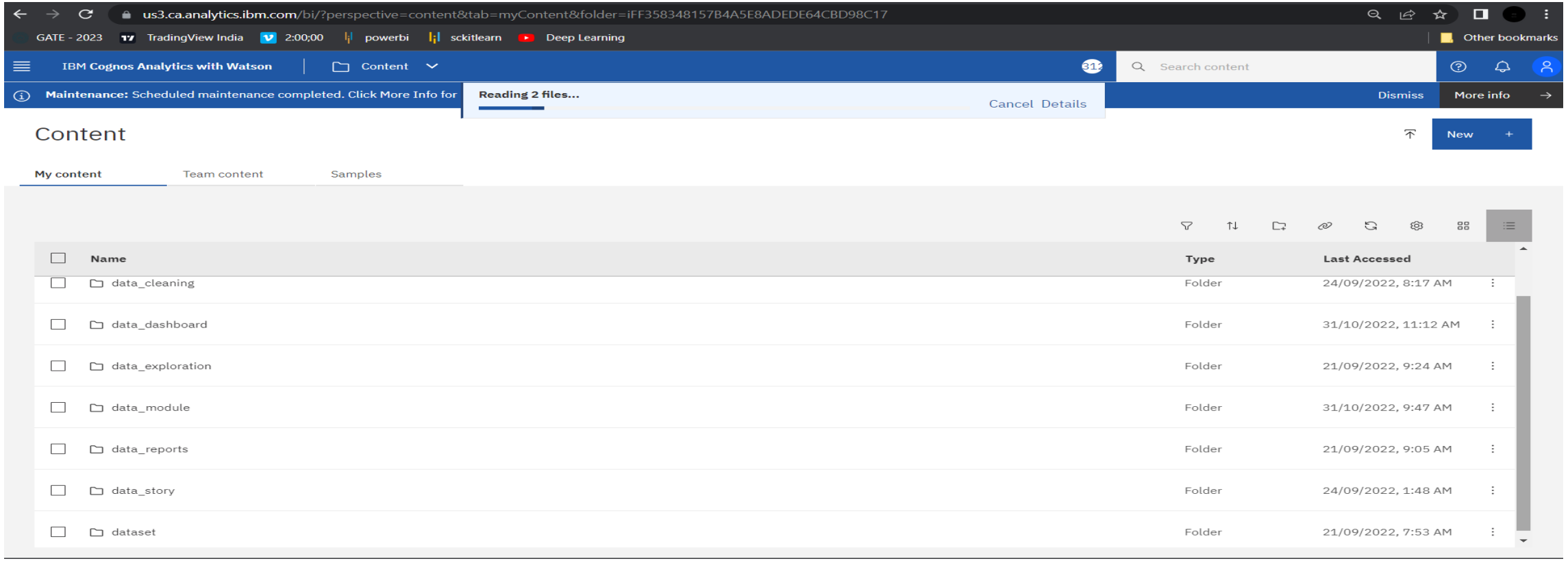
Sprint-1:

Data Collection: Download the Dataset Dataset link :

https://drive.google.com/drive/folders/1qozDgfVw04hGS8Di_SFhUNdUKUdjkhrT?usp=sharing

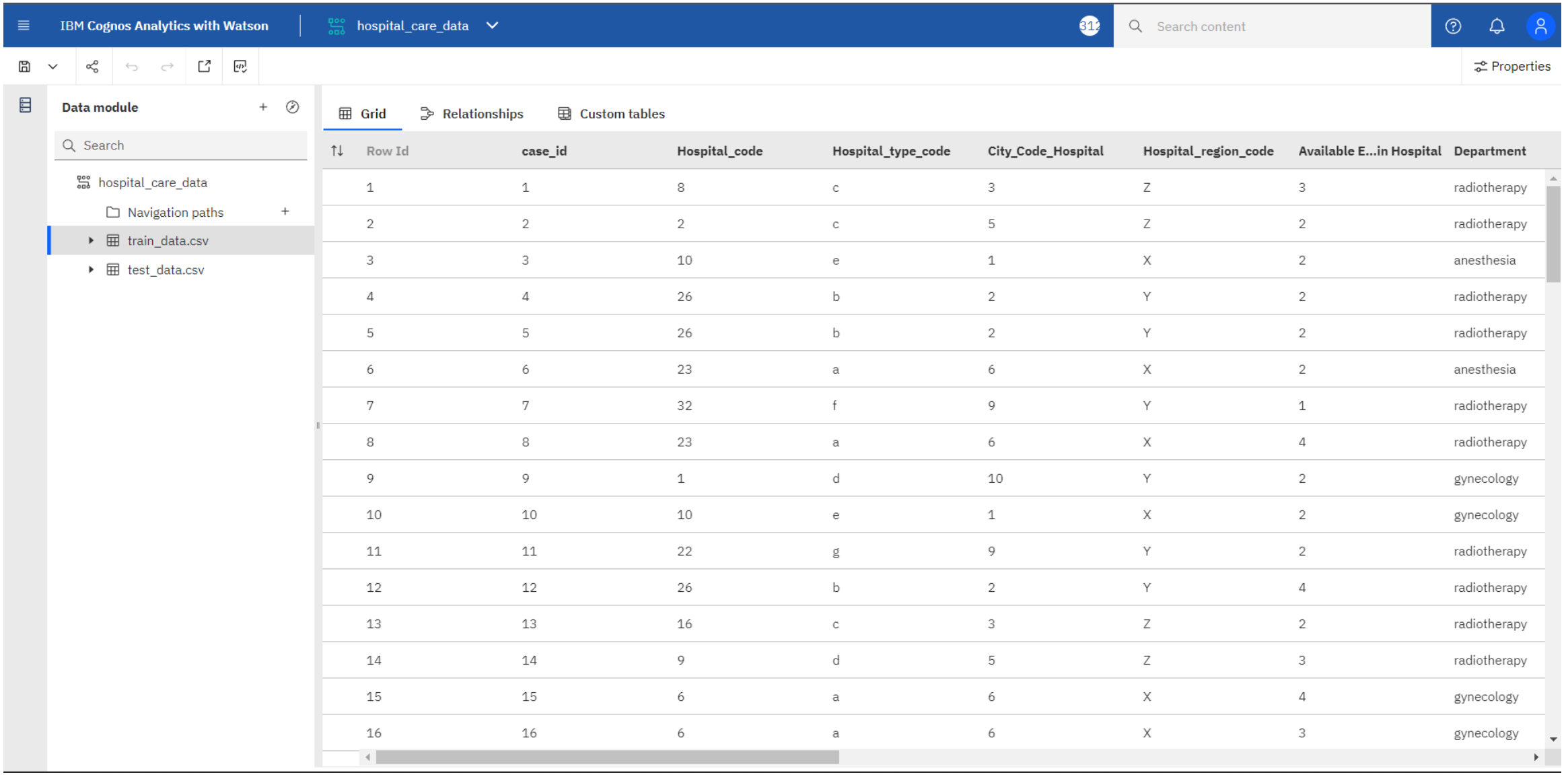
Load the Dataset:

Tool used: IBM Cognos Analytics



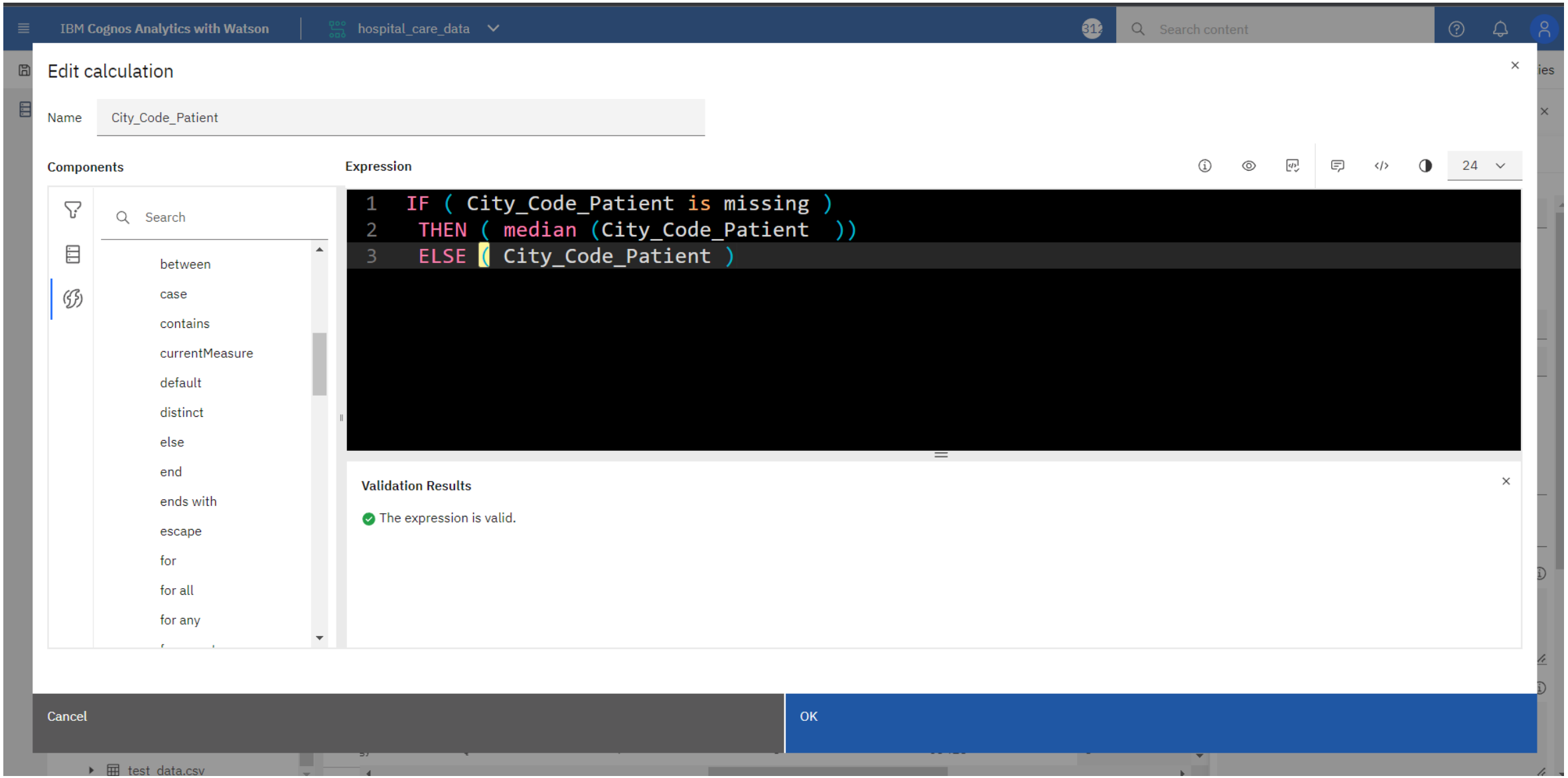
Data Preparation:

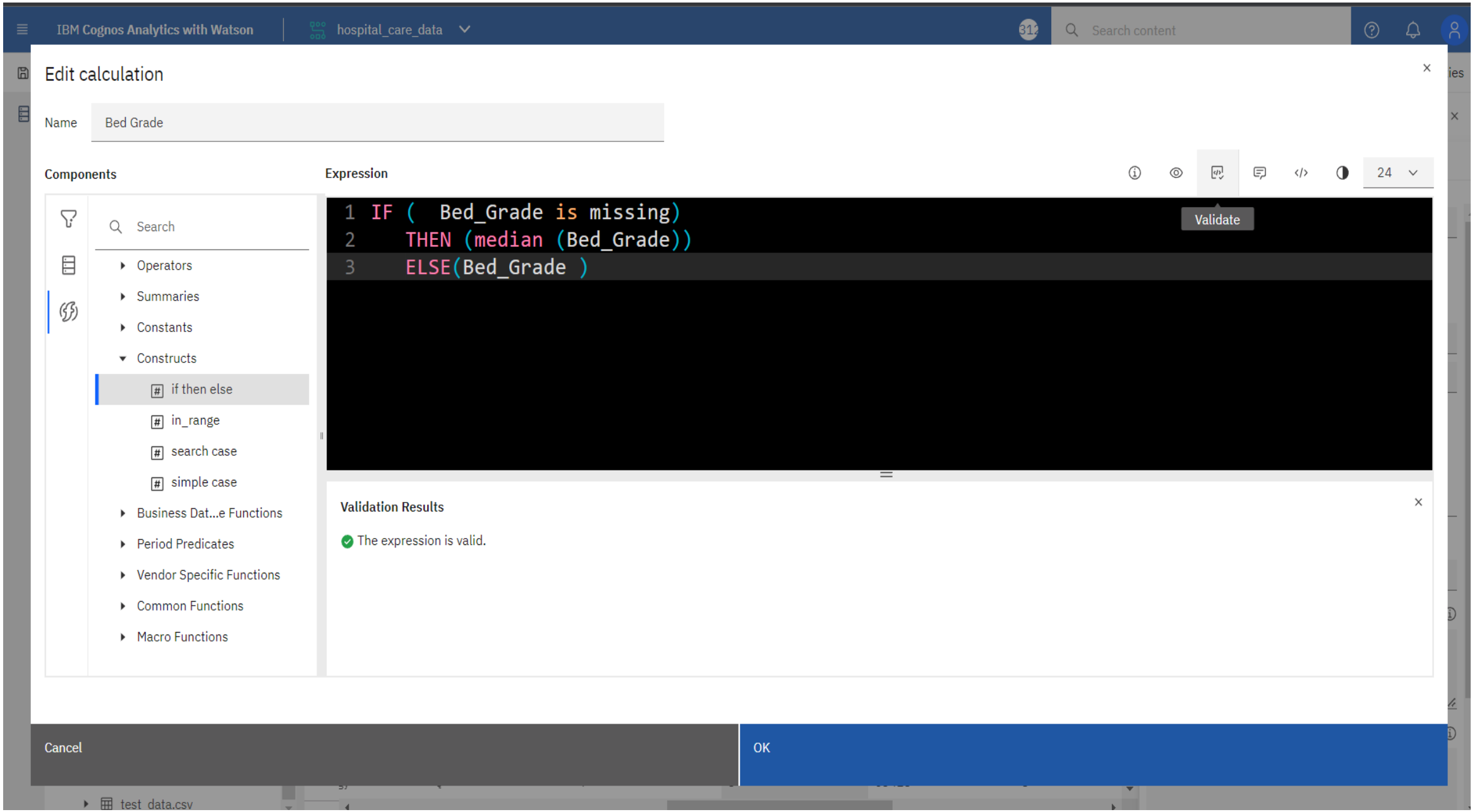
Prepare the Dataset

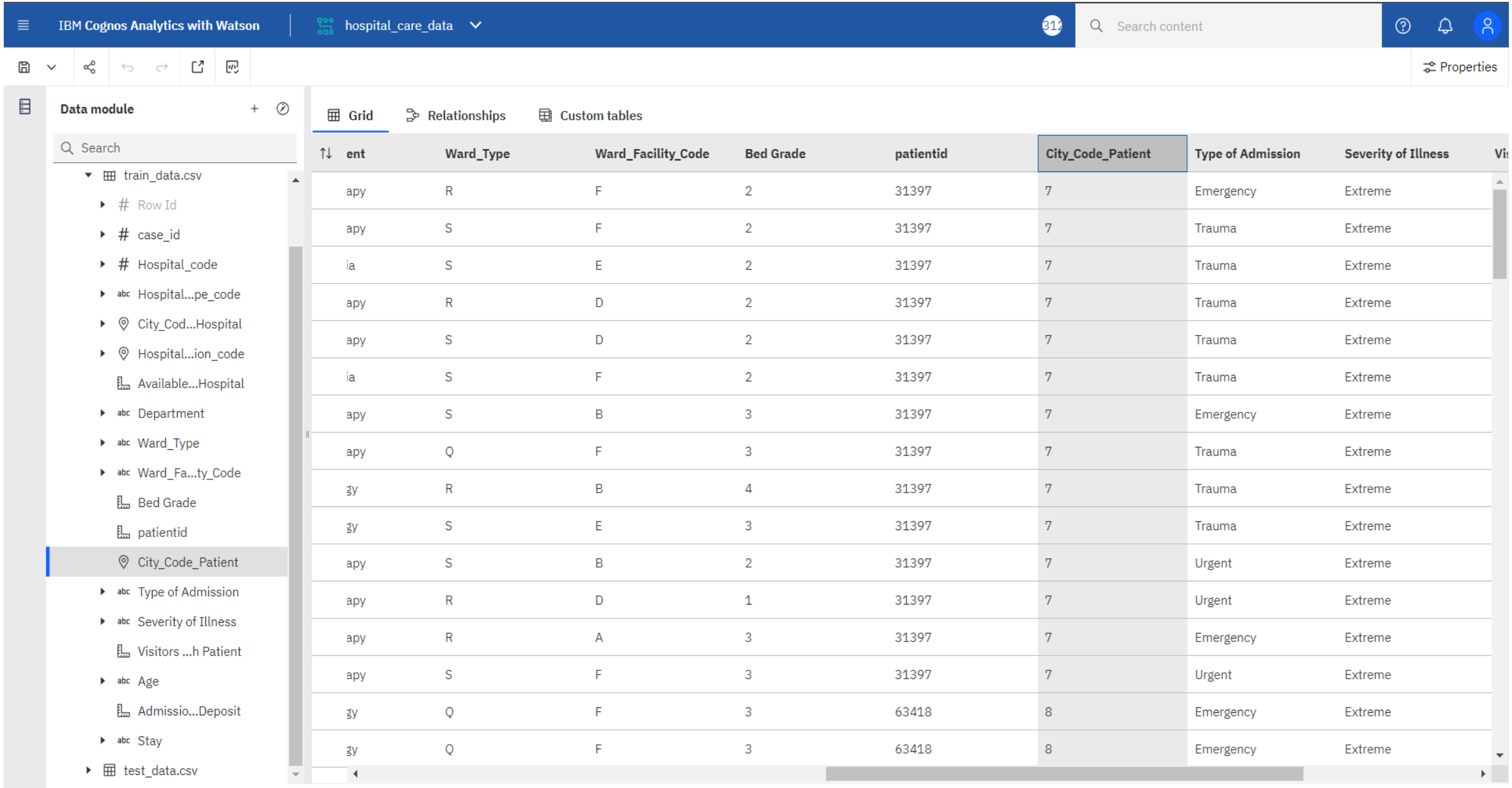


Row Id	case_id	Hospital_code	Hospital_type_code	City_Code_Hospital	Hospital_region_code	Available E...in Hospital	Department
1	1	8	c	3	Z	3	radiotherapy
2	2	2	c	5	Z	2	radiotherapy
3	3	10	e	1	X	2	anesthesia
4	4	26	b	2	Y	2	radiotherapy
5	5	26	b	2	Y	2	radiotherapy
6	6	23	a	6	X	2	anesthesia
7	7	32	f	9	Y	1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

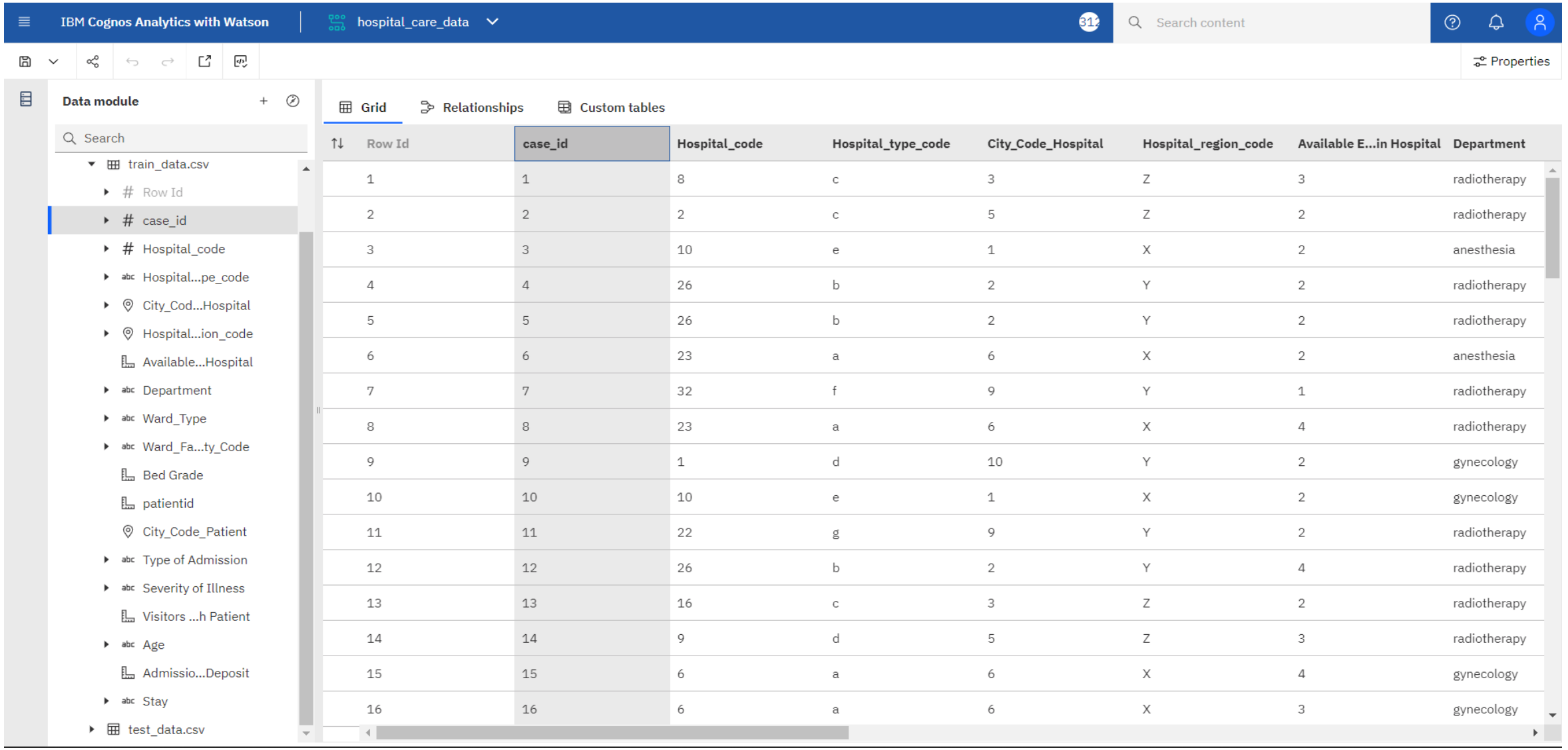
Null Values Cleaning Process :




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


IBM Cognos Analytics with Watson
hospital_care_data
Search content
Properties
Data module
Search
train_data.csv
Row Id
case_id
Hospital_code
Hospital...pe_code
City_Cod...Hospital
Hospital...ion_code
Available...Hospital
Department
Ward_Type
Ward_Fa...ty_Code
Bed Grade
patientid
City_Code_Patient
Type of Admission
Severity of Illness
Visitors ...h Patient
Age
Admissio...Deposit
Stay
test_data.csv
Grid
Relationships
Custom tables
ent
Ward_Type
Ward_Facility_Code
Bed Grade
patientid
City_Code_Patient
Type of Admission
Severity of Illness
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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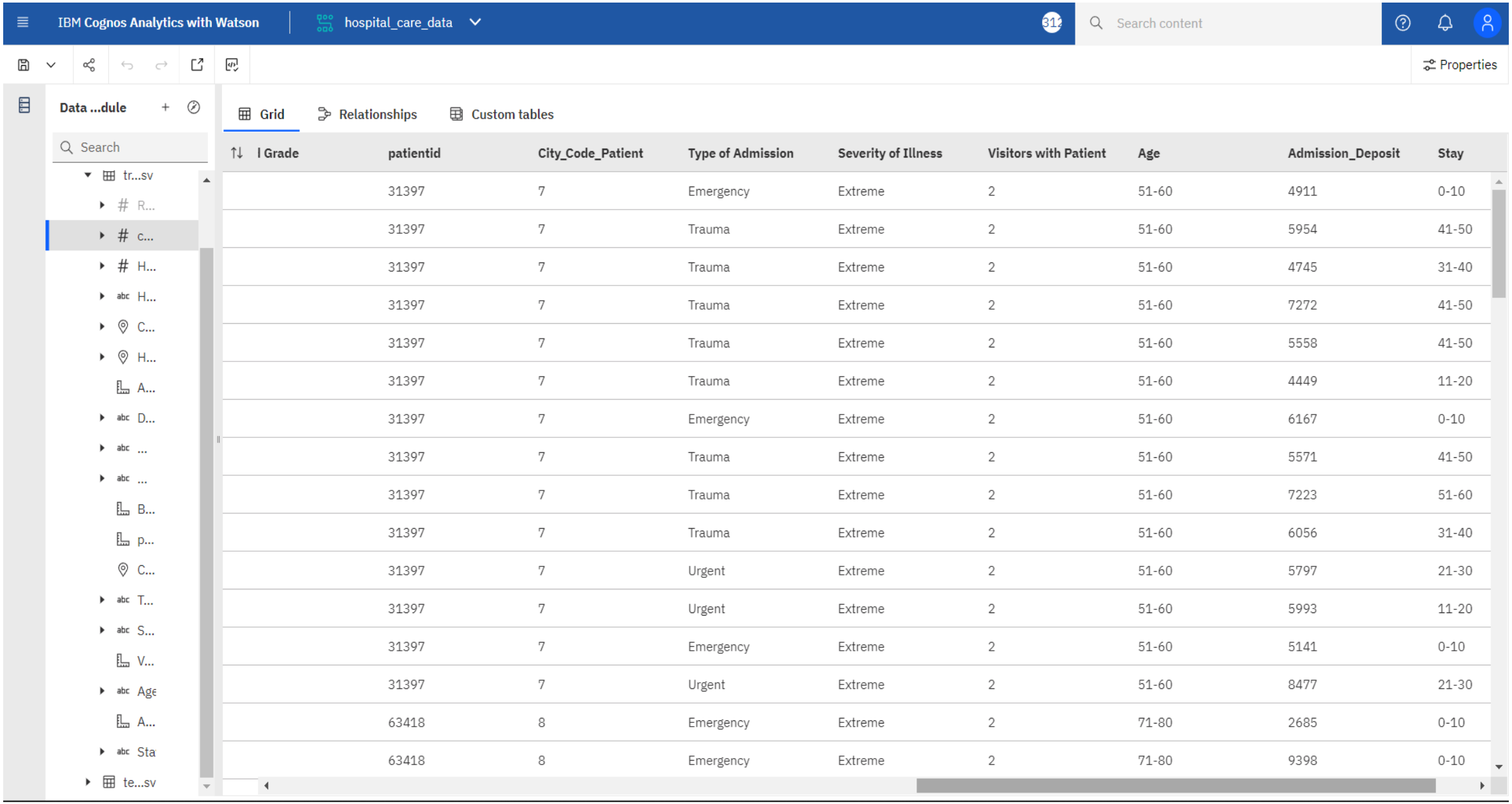
13	13	16	c	3	Z	2	radiotherapy
14	14	9	d	5	Z	3	radiotherapy
15	15	6	a	6	X	4	gynecology
16	16	6	a	6	X	3	gynecology



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