

Project Development Phase Delivery of Sprint-1

Date	2 November 2022
Team ID	PNT2022TMID27073
Project Name	Analytics for hospital's health care

Project Development Phase:

Sprint-1:

- Data Collection
- Data Preparation

Sprint-2:

- Data Exploration

Sprint-3:

- Dashboard creation

Sprint-4:

- Report Creation
- Story Creation

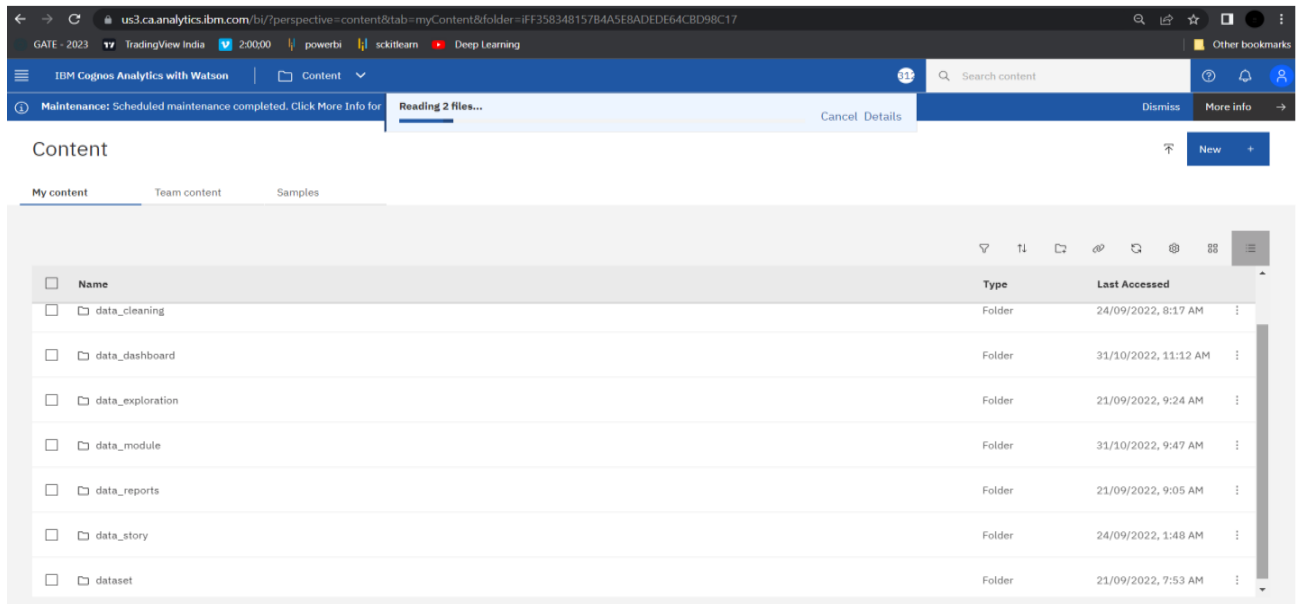
Sprint-1:

Data Collection: Download the Dataset Link:

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

Load the Dataset:

Tool used: IBM Cognos Analytics



The screenshot displays the IBM Cognos Analytics web interface. The browser address bar shows the URL: `us3.ca.analytics.ibm.com/b4/?perspective=content&tab=myContent&folder=IFF358348157B4A5E8ADEDE64CBD98C17`. The top navigation bar includes the IBM Cognos Analytics logo, a search bar, and a user profile icon. A notification banner at the top indicates "Maintenance: Scheduled maintenance completed. Click More Info for". Below the navigation bar, the "Content" section is active, showing a list of folders under "My content". The folders are listed in a table with columns for Name, Type, and Last Accessed.

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

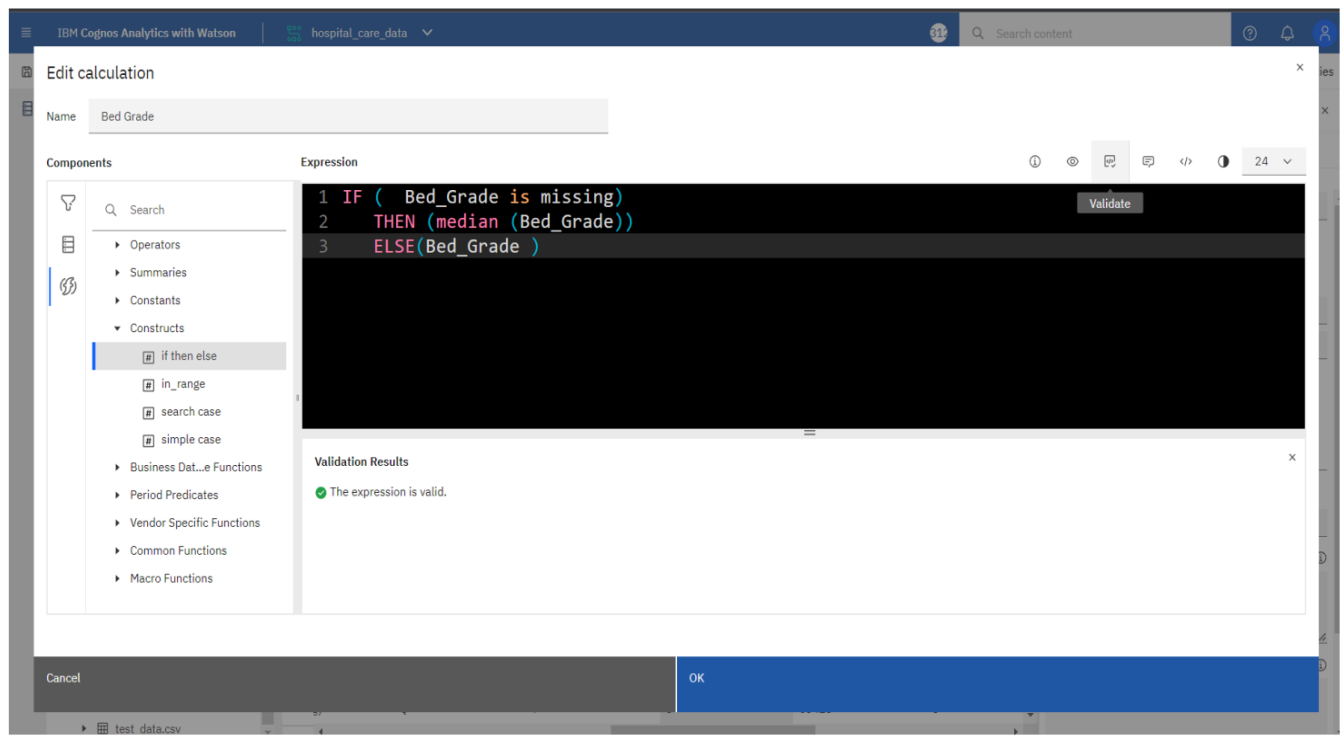
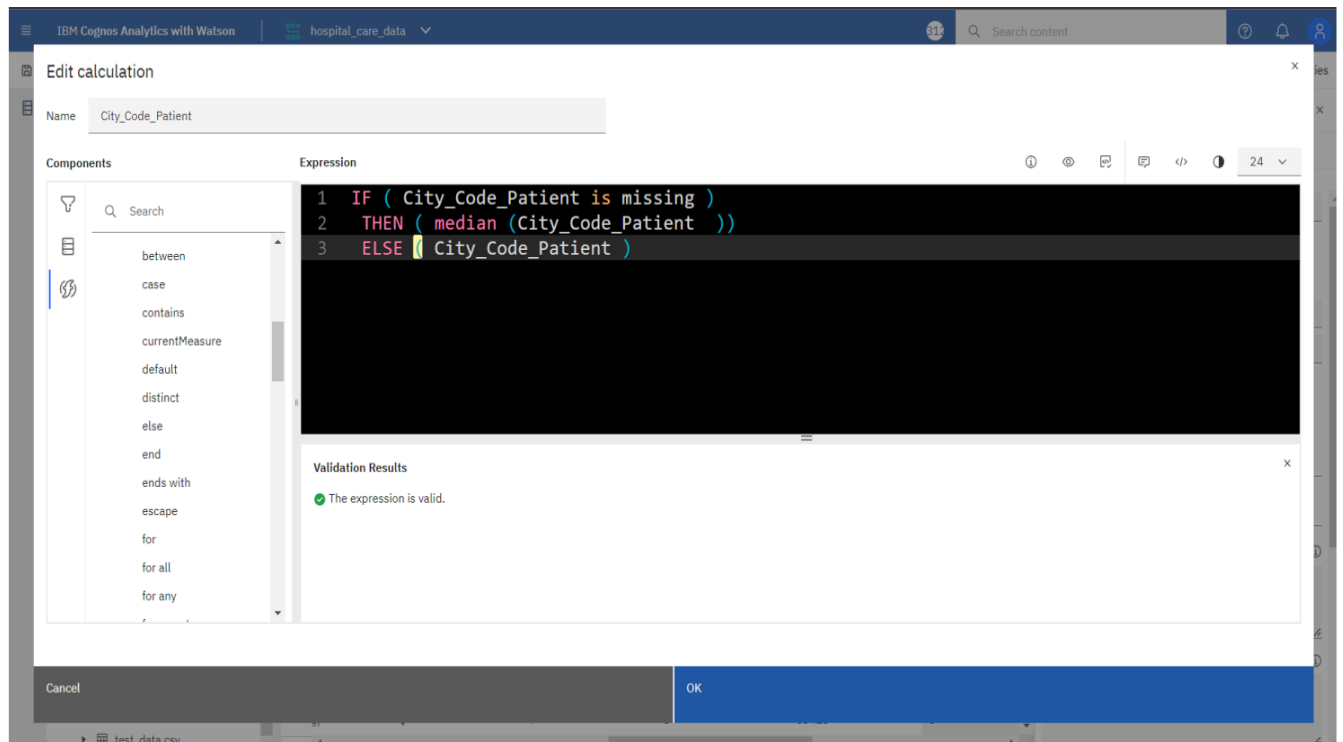
Data Preparation:

Prepare the Dataset

The screenshot displays the IBM Cognos Analytics interface. The top navigation bar includes the text 'IBM Cognos Analytics with Watson', a dropdown menu for 'hospital_care_data', a search bar with the placeholder 'Search content', and user profile icons. Below the navigation bar, a toolbar contains icons for various actions. The main workspace is divided into two sections. On the left, the 'Data module' pane shows a tree view with 'hospital_care_data' expanded, revealing 'train_data.csv' and 'test_data.csv'. On the right, the 'Grid' view displays a table with 16 rows and 9 columns. The columns are: Row Id, case_id, Hospital_code, Hospital_type_code, City_Code_Hospital, Hospital_region_code, Available E...in Hospital, and Department. The data rows show various hospital codes, types, and departments, with some departments like 'radiotherapy' and 'gynecology' appearing multiple times.

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

31

Search content

Properties

Data ...dule

Grid

Relationships

Custom tables

Search

tr...sv

R...

C...

H...

H...

C...

H...

A...

D...

...

...

B...

P...

C...

T...

S...

V...

Agc

A...

Sta

te...sv

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