

Project Development Phase Delivery of Sprint-1

Date	8 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

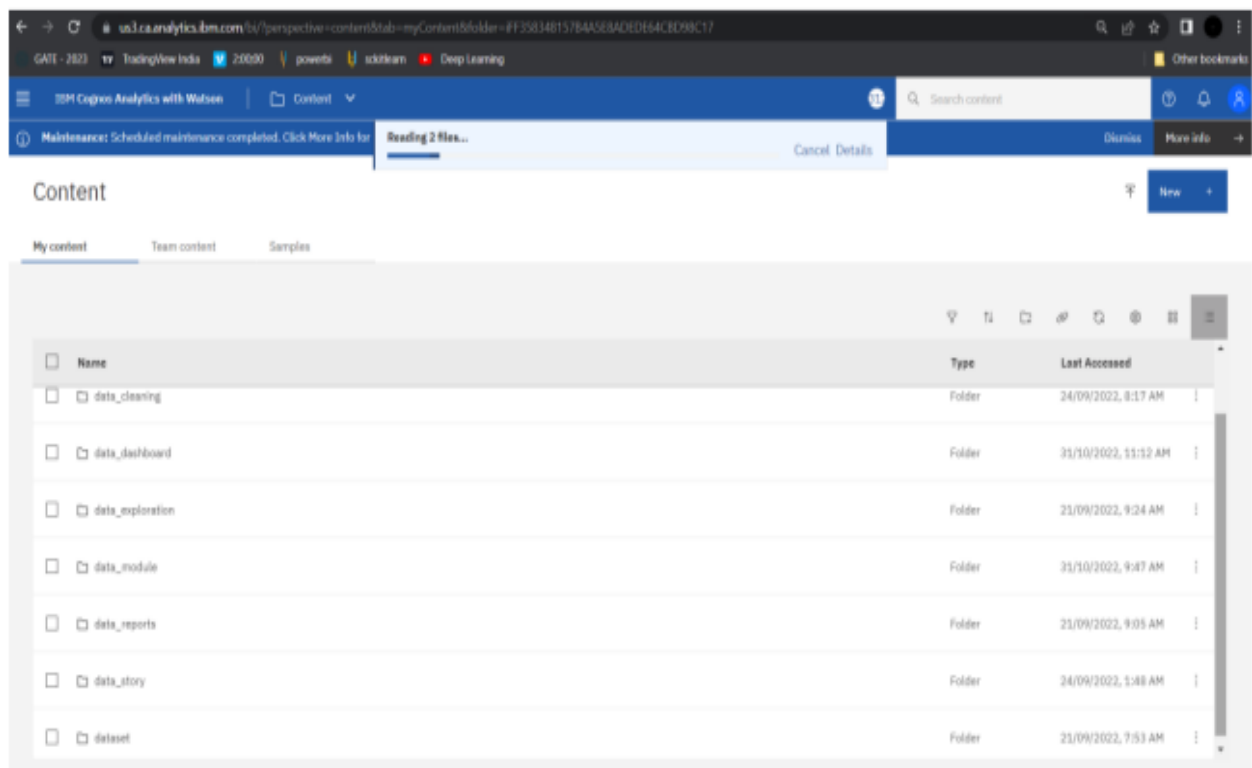
Sprint-1:

Data Collection: Download the Dataset Link:

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

Load the Dataset:

Tool used: IBM Cognos Analytic



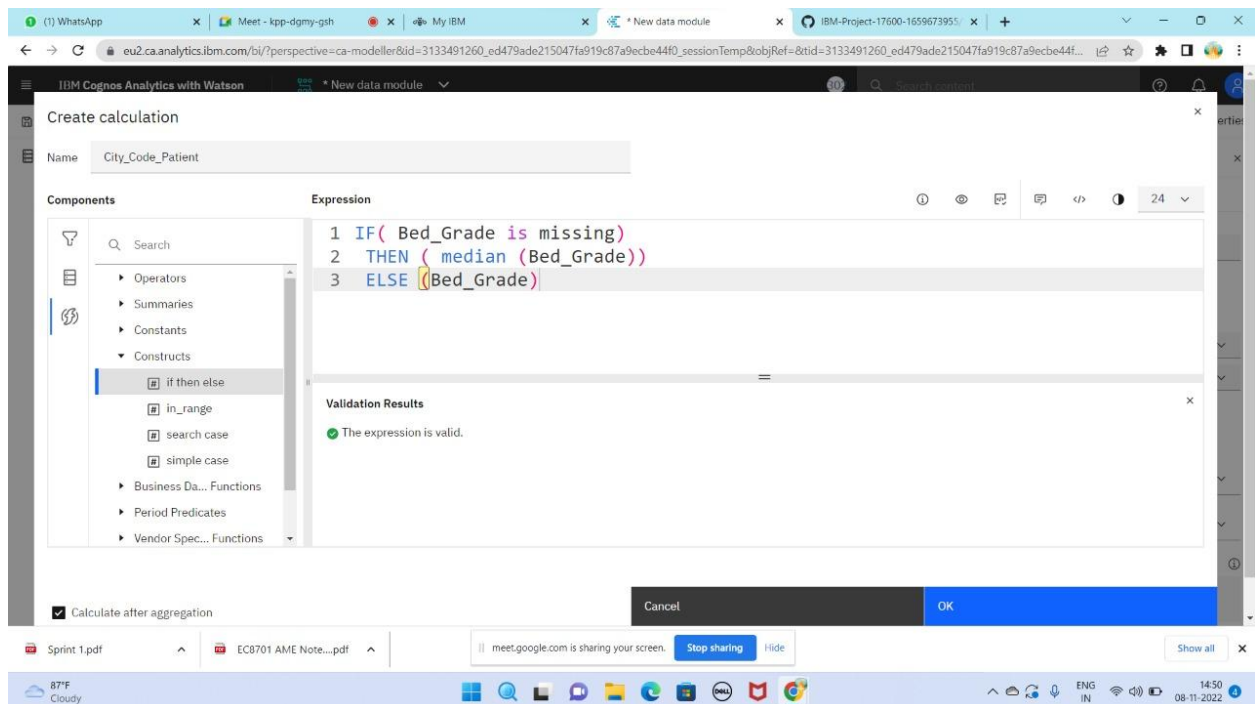
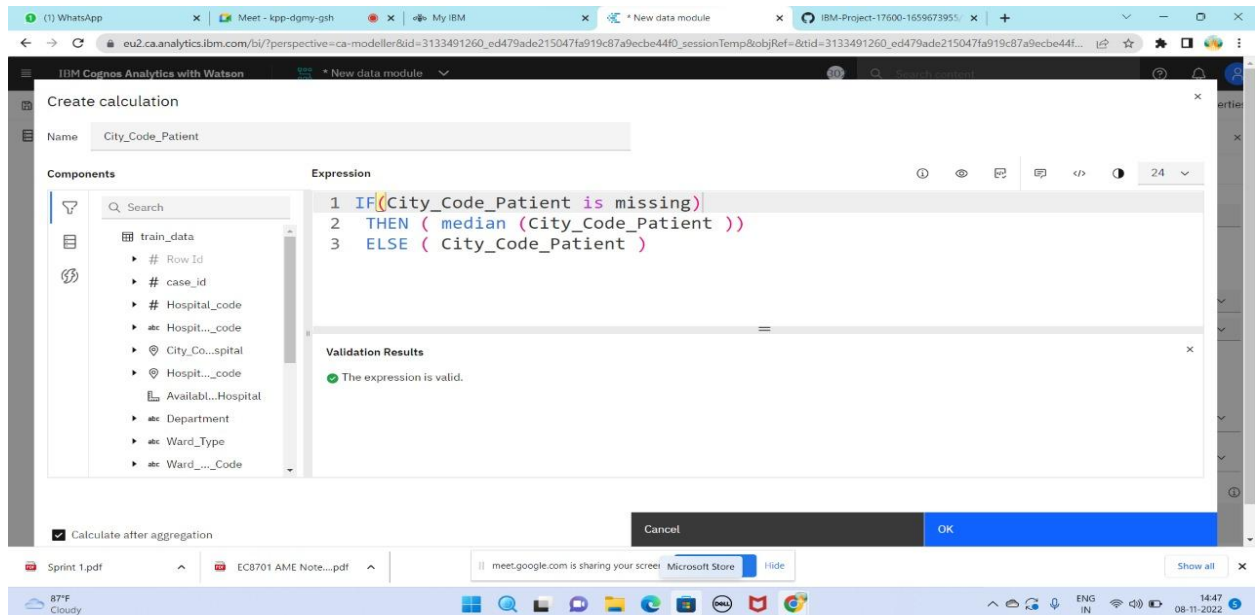
Data Preparation:

Prepare the Dataset

The screenshot displays the IBM Cognos Analytics interface. The top navigation bar shows the 'Hospital_care_data' module. The left sidebar lists the data module's structure, including fields like 'Row Id', 'case_id', 'Hospital_code', 'Hospital_type_code', 'City_Code_Hospital', 'Hospital_region_code', 'Available E...In Hc', 'Department', 'TB & Ch...isease', 'anesthesia', 'gynecology', 'radiotherapy', 'surgery', 'Ward_Type', and 'Ward_Facility Code'. The main area shows a grid view of the data with 12 rows and 8 columns. The bottom status bar indicates the system is at 87°F, Cloudy, and the date is 08-11-2022.

Row Id	case_id	Hospital_code	Hospital_type_code	City_Code_Hospital	Hospital_region_code	Available E...In Hc
1	1	8	c	3	Z	3
2	2	2	c	5	Z	2
3	3	10	e	1	X	2
4	4	26	b	2	Y	2
5	5	26	b	2	Y	2
6	6	23	a	6	X	2
7	7	32	f	9	Y	1
8	8	23	a	6	X	4
9	9	1	d	10	Y	2
10	10	10	e	1	X	2
11	11	22	g	9	Y	2
12	12	26	b	2	Y	4

Null Values Cleaning Process:



IBM Cognos Analytics with Watson

Data module

Grid

Ward_Facility_Code	Bed Grade	patientid	City_Code_Patient	Type of Admission	Severity of Illness	Visitors v
F	2	31397	7	Emergency	Extreme	2
F	2	31397	7	Trauma	Extreme	2
E	2	31397	7	Trauma	Extreme	2
D	2	31397	7	Trauma	Extreme	2
D	2	31397	7	Trauma	Extreme	2
F	2	31397	7	Trauma	Extreme	2
B	3	31397	7	Emergency	Extreme	2
F	3	31397	7	Trauma	Extreme	2
B	4	31397	7	Trauma	Extreme	2
E	3	31397	7	Trauma	Extreme	2
B	2	31397	7	Urgent	Extreme	2
D	1	31397	7	Urgent	Extreme	2

87°F Cloudy

14:51 08-11-2022

Hospital Data:

IBM Cognos Analytics with Watson

Hospital_care_data

Grid

Row Id	case_id	Hospital_code	Hospital_type_code	City_Code_Hospital	Hospital_region_code	Available E...In Hc
1	1	8	c	3	Z	3
2	2	2	c	5	Z	2
3	3	10	e	1	X	2
4	4	26	b	2	Y	2
5	5	26	b	2	Y	2
6	6	23	a	6	X	2
7	7	32	f	9	Y	1
8	8	23	a	6	X	4
9	9	1	d	10	Y	2
10	10	10	e	1	X	2
11	11	22	g	9	Y	2
12	12	26	b	2	Y	4

87°F Cloudy

14:53 08-11-2022

The screenshot displays the IBM Cognos Analytics web application. The left sidebar shows a 'Data module' with a search bar and a tree view containing various data fields. The main area shows a table with the following columns: patientid, City_Code_Patient, Type of Admission, Severity of Illness, Visitors with Patient, Age, and Admission_I. The table contains 15 rows of data, all with patientid 31397 and Age 51-60. The bottom of the screen shows a Windows taskbar with various application icons and a system tray with the date 08-11-2022 and time 14:57.

patientid	City_Code_Patient	Type of Admission	Severity of Illness	Visitors with Patient	Age	Admission_I
31397	7	Emergency	Extreme	2	51-60	4911
31397	7	Trauma	Extreme	2	51-60	5954
31397	7	Trauma	Extreme	2	51-60	4745
31397	7	Trauma	Extreme	2	51-60	7272
31397	7	Trauma	Extreme	2	51-60	5558
31397	7	Trauma	Extreme	2	51-60	4449
31397	7	Emergency	Extreme	2	51-60	6167
31397	7	Trauma	Extreme	2	51-60	5571
31397	7	Trauma	Extreme	2	51-60	7223
31397	7	Trauma	Extreme	2	51-60	6056
31397	7	Urgent	Extreme	2	51-60	5797
31397	7	Urgent	Extreme	2	51-60	5993

Prepared data link :

[https://eu2.ca.analytics.ibm.com/bi/?perspective=ca-modeller&pathRef=.my folders%2FHospital care data](https://eu2.ca.analytics.ibm.com/bi/?perspective=ca-modeller&pathRef=.my%20folders%2FHospital%20care%20data)