

IBM Naalaiya Thiran

PROJECT DEVELOPMENT PHASE

SPIRINT-1

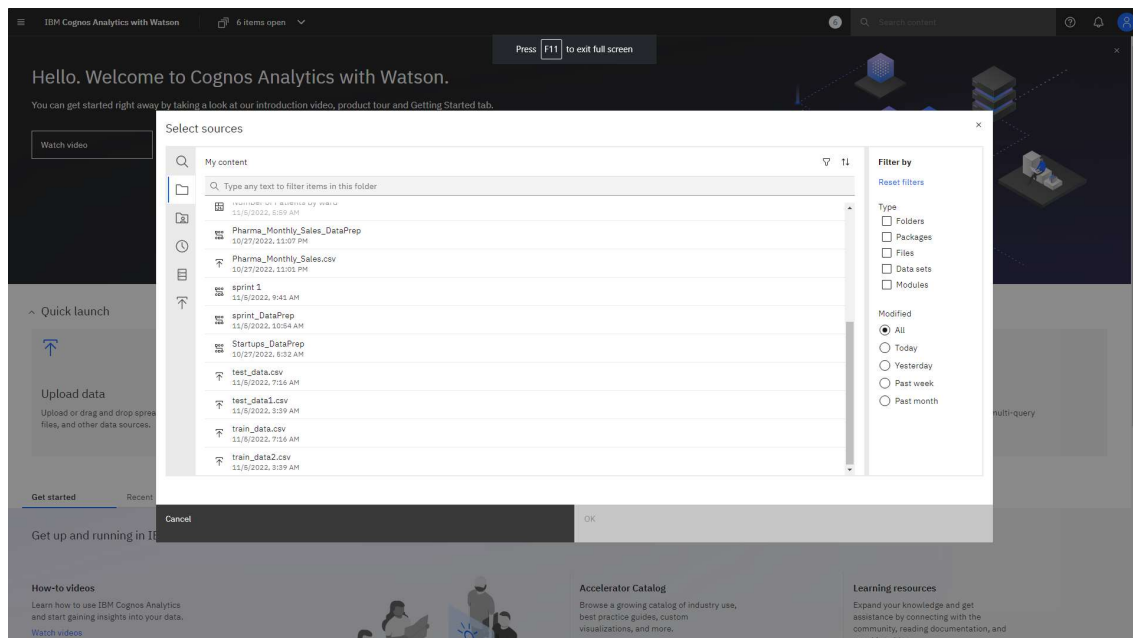
Date	29 October 2022
Team ID	PNT2022TMID04231
Project Name	Analytics for Hospitals' Health-Care Data

Phase	Progress
Sprint -1	<ul style="list-style-type: none">• Data Collection• Data preparation
Sprint -2	<ul style="list-style-type: none">• Data Exploration
Sprint -3	<ul style="list-style-type: none">• Dashboard Creation
Sprint -4	<ul style="list-style-type: none">• Report Creation• Story Creation

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

IBM Cognos Analytics with Watson

New data module

Search

New data module

Navigation paths

train_data.csv

test_data.csv

Grid

Relationships

Custom tables

City_Code_Patient	City_Code_Patient	Row Id	case_id	Hospital_code	Hospital_type_code	City_Code_Hospital	Hospital_region_code	Available E...in Hospital
7	7	1	1	8	c	3	Z	3
7	7	2	2	2	c	5	Z	2
7	7	3	3	10	e	1	X	2
7	7	4	4	26	b	2	Y	2
7	7	5	5	26	b	2	Y	2
7	7	6	6	23	a	6	X	2
7	7	7	7	32	f	9	Y	1
7	7	8	8	23	a	6	X	4
7	7	9	9	1	d	10	Y	2
7	7	10	10	10	e	1	X	2
7	7	11	11	22	g	9	Y	2
7	7	12	12	26	b	2	Y	4
7	7	13	13	16	c	3	Z	2
7	7	14	14	9	d	5	Z	3
8	8	15	15	6	a	6	X	4
8	8	16	16	6	a	6	X	3
8	8	17	17	23	a	6	X	4
8	8	18	18	29	a	4	X	4
8	8	19	19	32	f	9	Y	4
8	8	20	20	12	a	9	Y	4
8	8	21	21	16	c	3	Z	2
8	8	22	22	3	c	3	Z	2

IBM Cognos Analytics with Watson

New data module

Search

New data module

Navigation paths

train_data.csv

test_data.csv

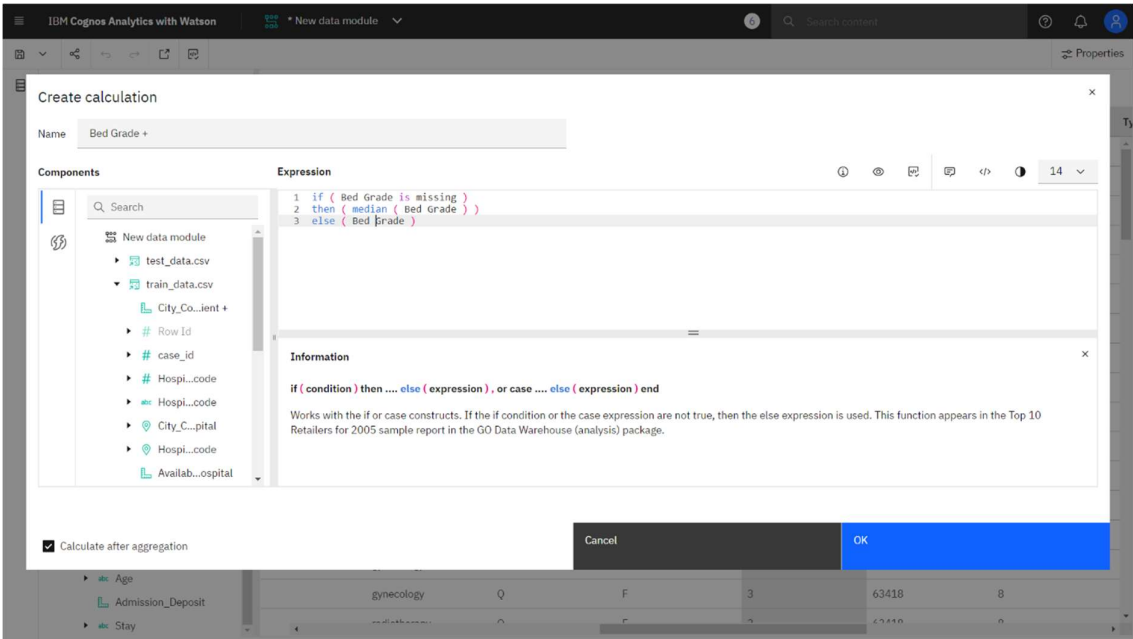
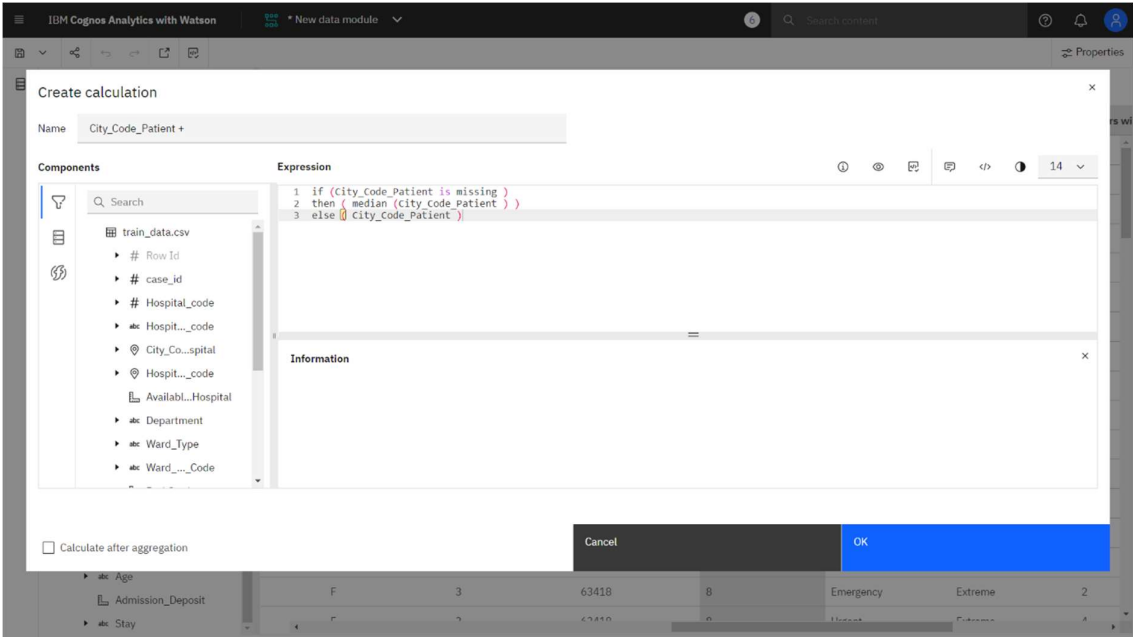
Grid

Relationships

Custom tables

Row Id	case_id	Hospital_code	Hospital_type_code	City_Code_Hospital	Hospital_region_code	Available E...in Hospital	Department	Ward_Type
1	318439	21	c	3	Z	3	gynecology	S
2	318440	29	a	4	X	2	gynecology	S
3	318441	26	b	2	Y	3	gynecology	Q
4	318442	6	a	6	X	3	gynecology	Q
5	318443	28	b	11	X	2	gynecology	R
6	318444	23	a	6	X	3	gynecology	Q
7	318445	26	b	2	Y	2	gynecology	Q
8	318446	25	e	1	X	4	gynecology	S
9	318447	23	a	6	X	4	gynecology	Q
10	318448	23	a	6	X	3	gynecology	Q
11	318449	10	e	1	X	4	gynecology	Q
12	318450	4	a	4	X	3	gynecology	R
13	318451	16	c	3	Z	4	gynecology	R
14	318452	28	b	11	X	3	gynecology	R
15	318453	19	a	7	Y	1	gynecology	S
16	318454	26	b	2	Y	5	gynecology	S
17	318455	19	a	7	Y	2	gynecology	S
18	318456	26	b	2	Y	3	gynecology	P
19	318457	23	a	6	X	4	anesthesia	Q
20	318458	25	e	1	X	2	anesthesia	S
21	318459	32	f	9	Y	2	gynecology	S
22	318460	26	b	2	Y	2	gynecology	R

Removing of null value :



Data from Department:

IBM Cognos Analytics with Watson

New data module

Search content

Properties

train_data.csv

City_Code_Patient +

Row Id

case_id

Hospital_code

Hospital_type_code

City_Code_Hospital

Hospital_region_code

Available Extra Rooms in Hospital

Department

Ward_Type

Ward_Facility_Code

Bed Grade

patientid

City_Code_Patient

Type of Admission

Severity of Illness

Visitors with Patient

Age

Admission_Deposit

Stay

Grid

Relationships

Custom tables

Tl	code	City_Code_Hospital	Hospital_region_code	Available E...In Hospital	Department	Ward_Type	Ward_Facility_Code
	3		Z	3	radiotherapy	R	F
	5		Z	2	radiotherapy	S	F
	1		X	2	anesthesia	S	E
	2		Y	2	radiotherapy	R	D
	2		Y	2	radiotherapy	S	D
	6		X	2	anesthesia	S	F
	9		Y	1	radiotherapy	S	B
	6		X	4	radiotherapy	Q	F
	10		Y	2	gynecology	R	B
	1		X	2	gynecology	S	E
	9		Y	2	radiotherapy	S	B
	2		Y	4	radiotherapy	R	D
	3		Z	2	radiotherapy	R	A
	5		Z	3	radiotherapy	S	F
	6		X	4	gynecology	Q	F
	6		X	3	gynecology	Q	F

Data from Type of admission

IBM Cognos Analytics with Watson

New data module

Search content

Properties

train_data.csv

City_Code_Patient +

Row Id

case_id

Hospital_code

Hospital_type_code

City_Code_Hospital

Hospital_region_code

Available Extra Rooms in Hospital

Department

Ward_Type

Ward_Facility_Code

Bed Grade

patientid

City_Code_Patient

Type of Admission

Severity of Illness

Visitors with Patient

Age

Admission_Deposit

Stay

Grid

Relationships

Custom tables

Tl	Bed Grade	patientid	City_Code_Patient	Type of Admission	Severity of Illness	Visitors with Patient
	2	31397	7	Emergency	Extreme	2
	2	31397	7	Trauma	Extreme	2
	2	31397	7	Trauma	Extreme	2
	2	31397	7	Trauma	Extreme	2
	2	31397	7	Trauma	Extreme	2
	2	31397	7	Trauma	Extreme	2
	3	31397	7	Emergency	Extreme	2
	3	31397	7	Trauma	Extreme	2
	4	31397	7	Trauma	Extreme	2
	3	31397	7	Trauma	Extreme	2
	2	31397	7	Urgent	Extreme	2
	1	31397	7	Urgent	Extreme	2
	3	31397	7	Emergency	Extreme	2
	3	31397	7	Urgent	Extreme	2
	3	63418	8	Emergency	Extreme	2
	3	63418	8	Emergency	Extreme	2