

Project Development Phase

Sprint - 1

Date	23 October 2022
Team ID	PNT2022TMID14777
Project Name	Project - 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

Analytics for Hospital's Health Care Data

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TEAM ID : PNT2022TMID14777

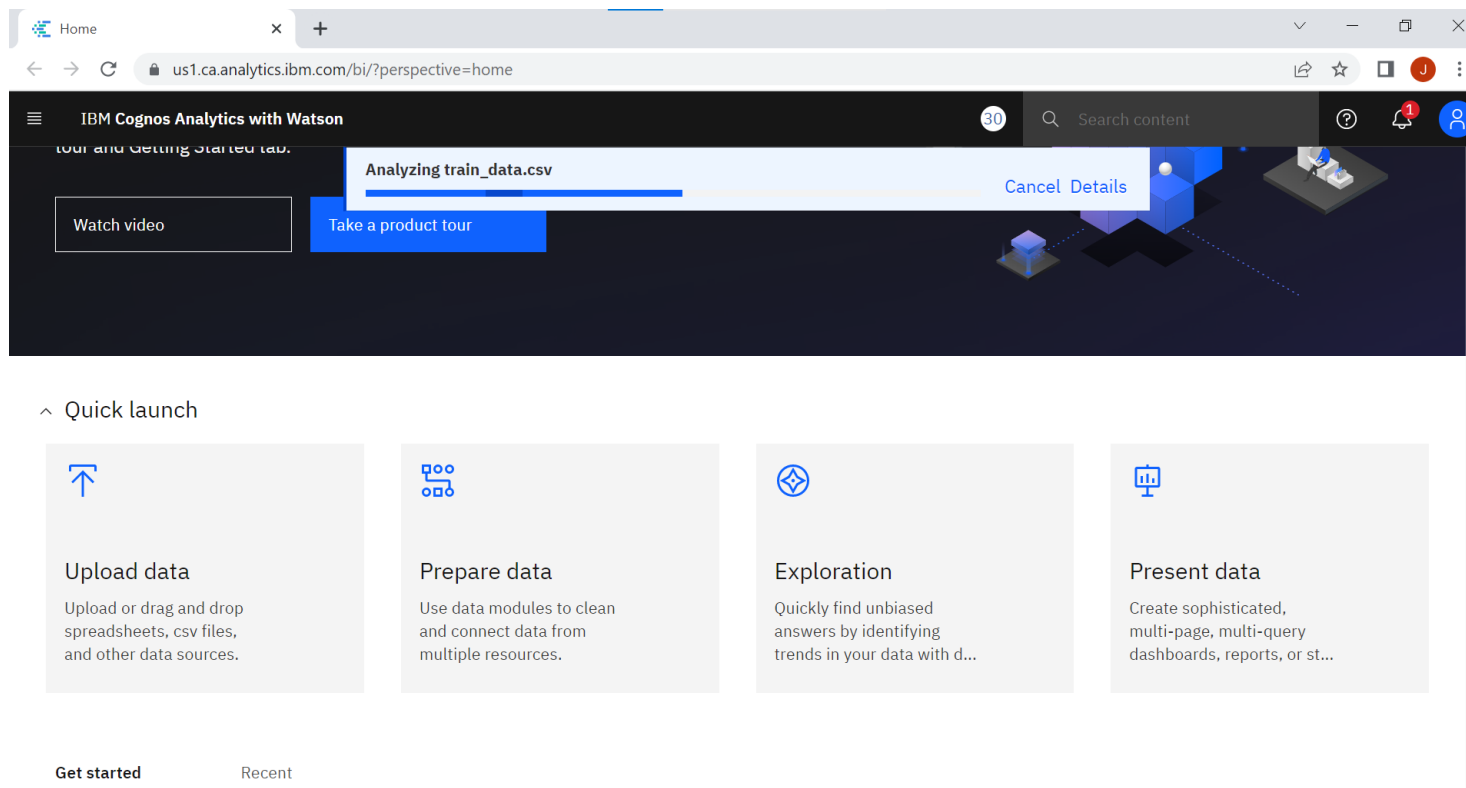
Sprint-1

Data Collection

Downloading the Dataset link :

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

Tool used for uploading the dataset : IBM Cognos Analytics



Data Preparation

health_care_analytics

us1.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=i073BE479856B437F9743A1E50382B770&objRef=i073BE479856B437F9743A1E50382B770&tid...

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Properties

Data module

Search

health_care_analytics

Navigation paths

test_data.csv

train_data.csv

GridRelationshipsCustom tables

↕	Row Id	case_id	Hospital_code	Hospital_type_code	City_Code_Hospital	Hosp
1	1	8	c	3	Z	
2	2	2	c	5	Z	
3	3	10	e	1	X	
4	4	26	b	2	Y	
5	5	26	b	2	Y	
6	6	23	a	6	X	
7	7	32	f	9	Y	
8	8	23	a	6	X	
9	9	1	d	10	Y	
10	10	10	e	1	X	

Handling missing values

The screenshot shows the 'Create calculation' dialog in IBM Cognos Analytics. The 'Name' field is set to 'Bed_Grade'. The 'Expression' field contains the following code:

```
1 if (Bed_Grade is missing)
2   then (median (Bed_Grade))
3 else (Bed_Grade)
```

The 'Components' panel on the left shows a tree view with 'Constructs' expanded, and 'if then else' selected. Below the expression, the 'Validation Results' section shows a green checkmark and the message: 'The expression is valid.'

At the bottom of the dialog, there is a checkbox labeled 'Calculate after aggregation' which is currently unchecked. To the right of this checkbox are two buttons: 'Cancel' and 'OK'.

IBM Cognos Analytics with Watson

* health_care_analytics

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Search content

?

1

Grid

Relationships

Custom tables

Search

Row Id

case_id

Hospital_code

abc Hospital...pe_code

City_Cod...Hospital

Hospital...on_code

Availabl...Hospital

abc Department

abc Ward_Type

abc Ward_Fa...ty_Code

Bed Grade

patientid

City_Code_Patient

abc Type of Admission

abc Severity of Illness

Visitors ...h Patient

abc Age

Admissio...Deposit

↑↓	City_Code_Hospital	Hospital_region_code	Available E...in Hospital	Department	Ward_Type	Ward_Facility_Code	Bed Grade	p
3		Z	3	radiotherapy	R	F	2	
5		Z	2	radiotherapy	S	F	2	
1		X	2	anesthesia	S	E	2	
2		Y	2	radiotherapy	R	D	2	
2		Y	2	radiotherapy	S	D	2	
6		X	2	anesthesia	S	F	2	
9		Y	1	radiotherapy	S	B	3	
6		X	4	radiotherapy	Q	F	3	
10		Y	2	gynecology	R	B	4	
1		X	2	gynecology	S	E	3	
9		Y	2	radiotherapy	S	B	2	
2		Y	4	radiotherapy	R	D	1	
3		Z	2	radiotherapy	R	A	3	
5		Z	3	radiotherapy	S	F	3	

health_care_analytics

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Create calculation

NameCity_Code_Patient

Components

Search

Operators

Summaries

Constants

Constructs

if then else

in_range

search case

simple case

Business D... Functions

Period Predicates

Vendor Spe... Functions

Expression

```
1 if (City_Code_Patient is missing)
2   then (median (City_Code_Patient))
3 else (City_Code_Patient)
```

Validation Results

✓ The expression is valid.

☐ Calculate after aggregation

CancelOK

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Search content

1

Properties

Grid

Relationships

Custom tables

Search

Bed_Grade

Row Id

case_id

Hospital_code

abc Hospital...pe_code

City_Cod...Hospital

Hospital...on_code

Availabl...Hospital

abc Department

abc Ward_Type

abc Ward_Fa...ty_Code

Bed Grade

patientid

City_Code_Patient

abc Type of Admission

abc Severity of Illness

Visitors ...h Patient

abc Age

↑↓	Available E...in Hospital	Department	Ward_Type	Ward_Facility_Code	Bed Grade	patientid	City_Code_Patient	T
	3	radiotherapy	R	F	2	31397	7	
	2	radiotherapy	S	F	2	31397	7	
	2	anesthesia	S	E	2	31397	7	
	2	radiotherapy	R	D	2	31397	7	
	2	radiotherapy	S	D	2	31397	7	
	2	anesthesia	S	F	2	31397	7	
	1	radiotherapy	S	B	3	31397	7	
	4	radiotherapy	Q	F	3	31397	7	
	2	gynecology	R	B	4	31397	7	
	2	gynecology	S	E	3	31397	7	
	2	radiotherapy	S	B	2	31397	7	
	4	radiotherapy	R	D	1	31397	7	
	2	radiotherapy	R	A	3	31397	7	
	3	radiotherapy	S	F	3	31397	7	

Data Preparation Link:

https://us1.ca.analytics.ibm.com/bi/?perspective=ca-modeller&pathRef=.my_folders%2Fhealth_care_analytics

