

Project Development Phase

Sprint - 1

Date	23 October 2022
Team ID	PNT2022TMID14777
Project Name	Project - Analytics for hospitals health care data

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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 MEMBER 1 : KAVIPRIYA T
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TEAM MEMBER 3 : MANJEET SINGH



TEAM ID : PNT2022TMID14777

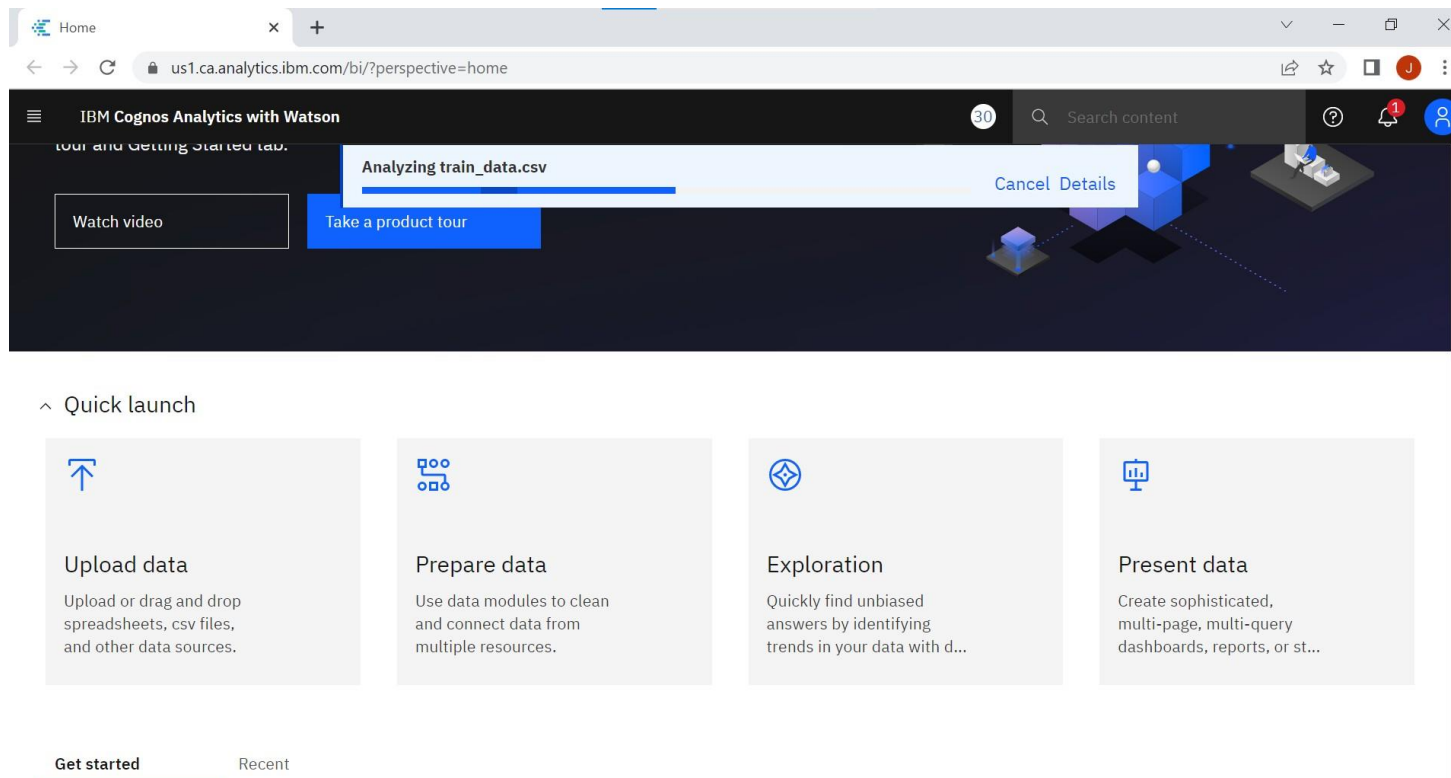
Sprint-1

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

The screenshot displays the IBM Cognos Analytics with Watson web application. The browser address bar shows the URL: `us1.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=i073BE479856B437F9743A1E50382B770&objRef=i073BE479856B437F9743A1E50382B770&tid...`. The application header includes the IBM Cognos Analytics with Watson logo, the workspace name "health_care_analytics", a notification badge with the number 30, a search bar, and user profile icons. Below the header is a toolbar with icons for saving, undo, redo, and other actions. The main interface is divided into three sections: a left sidebar, a top navigation bar, and a central data table.

Data module sidebar:

- Search bar
- health_care_analytics
 - Navigation paths
 - test_data.csv
 - train_data.csv (selected)

Top navigation bar:

- Grid (selected)
- Relationships
- Custom tables

Data Table:

↑↓	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 left, there is a checkbox labeled 'Calculate after aggregation' which is currently unchecked. At the bottom right, there are 'Cancel' and 'OK' buttons.

health_care_analytics

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

IBM Cognos Analytics with Watson

health_care_analytics

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Search content

Properties

Data module

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

Grid

Relationships

Custom tables

	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

+

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

IBM Cognos Analytics with Watson

health_care_analytics

30

Search content

?

1

Create calculation

NameCity_Code_Patient

Components

Expression

Search

Operators

Summaries

Constants

Constructs

#if then else

#in_range

#search case

#simple case

Business D... Functions

Period Predicates

Vendor Spe... Functions

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

Cancel

OK

Admissio...Deposit

health_care_analytics

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

IBM Cognos Analytics with Watsonhealth_care_analytics30Search content

Properties

Data module

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

GridRelationshipsCustom tables

↕	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

