**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

TEAM LEAD :          **JANANI M**
TEAM MEMBER 1 : **KAVIPRIYA T**
TEAM MEMBER 2 : **SADHASIVAM S**
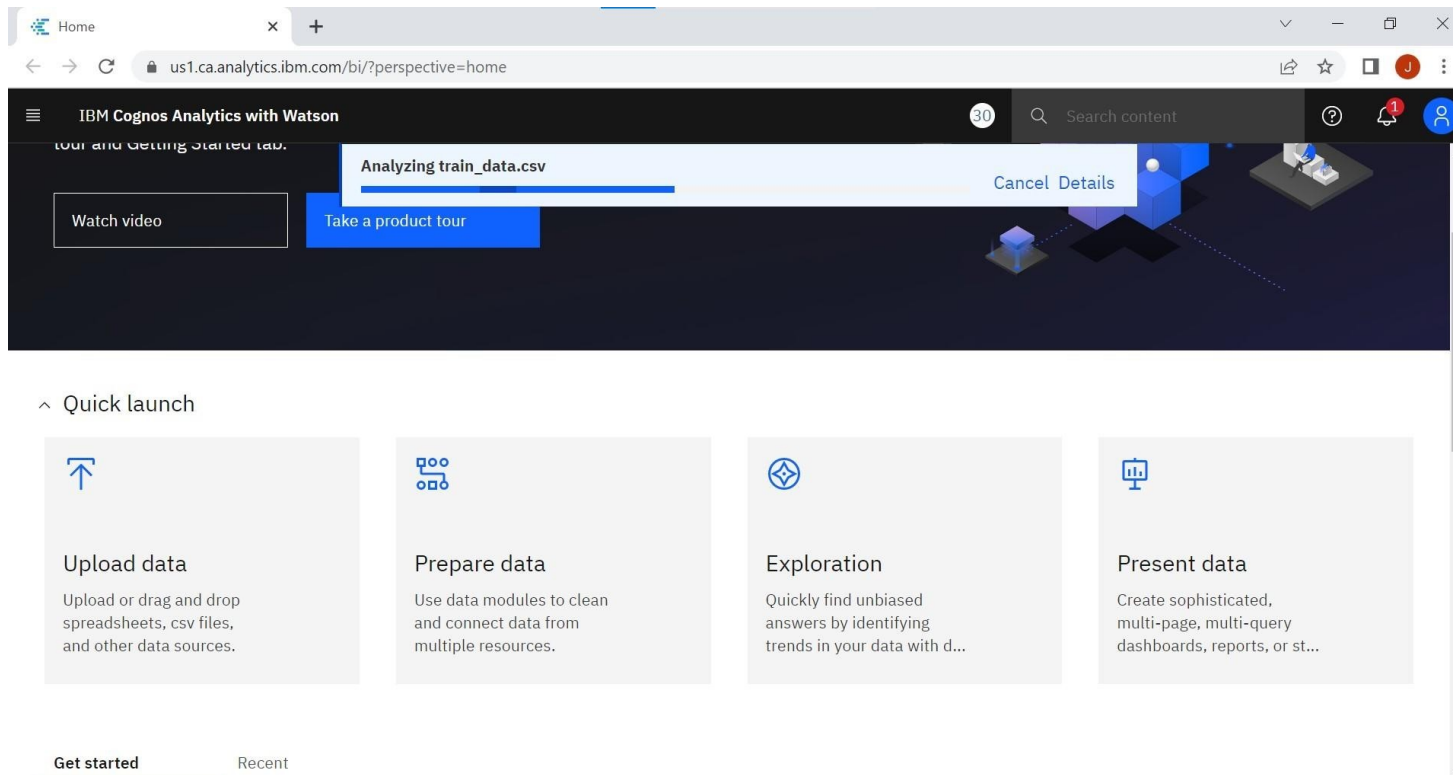TEAM MEMBER 3 : **MANJEET SINGH**

## TEAM ID : PNT2022TMID14777

# Sprint-1

## Data Collection

**Downloading the Dataset link** :

https://drive.google.com/drive/folders/1qozDgfVw04hGS8Di_SFhUNdUKUdjkhrT?usp=sharing

**Tool used for uploading the dataset** : IBM Cognos Analytics

## Data Preparation

# Handling missing values

IBM **Cognos** Analytics with Watson    * health_care_analytics    30    Search content

Properties

| Data module | + | ⊘ |
| --- | --- | --- |

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 | |

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## Create calculation                                                                                    ✕

**Name**   City_Code_Patient

**Components**                          **Expression**                    ⓘ  👁  ⟨⟩✓   💬  </>  ◑   14  ⌄

▽          🔍 Search                     1  if (City_Code_Patient is missing)
                                         2      then (median (City_Code_Patient))
☰                                        3  else (City_Code_Patient)
            ▸ Operators
⟨⟩
            ▸ Summaries

            ▸ Constants

            ▾ Constructs

                 # if then else
                                                                     =
                 # in_range
                                         **Validation Results**                            ✕
                 # search case
                                         ✓ The expression is valid.
                 # simple case

            ▸ Business D... Functions

            ▸ Period Predicates

            ▸ Vendor Spe... Functions

☐ Calculate after aggregation                          Cancel                    OK

🔛 Admissio...Deposit   ⌄     ◁

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| | | | | | Properties |

| Data module | | | Grid | | Relationships | | Custom tables | |
|---|---|---|---|---|---|---|---|---|

Search

| | Available E...in Hospital | Department | Ward_Type | Ward_Facility_Code | Bed Grade | patientid | City_Code_Patient | T |
|---|---|---|---|---|---|---|---|---|
| Bed_Grade | 3 | radiotherapy | R | F | 2 | 31397 | 7 | |
| # Row Id | 2 | radiotherapy | S | F | 2 | 31397 | 7 | |
| # case_id | 2 | anesthesia | S | E | 2 | 31397 | 7 | |
| # Hospital_code | 2 | radiotherapy | R | D | 2 | 31397 | 7 | |
| abc Hospital...pe_code | 2 | radiotherapy | S | D | 2 | 31397 | 7 | |
| City_Cod...Hospital | 2 | anesthesia | S | F | 2 | 31397 | 7 | |
| Hospital...on_code | 1 | radiotherapy | S | B | 3 | 31397 | 7 | |
| Availabl...Hospital | 4 | radiotherapy | Q | F | 3 | 31397 | 7 | |
| abc Department | 2 | gynecology | R | B | 4 | 31397 | 7 | |
| abc Ward_Type | 2 | gynecology | S | E | 3 | 31397 | 7 | |
| abc Ward_Fa...ty_Code | 2 | radiotherapy | S | B | 2 | 31397 | 7 | |
| Bed Grade | 4 | radiotherapy | R | D | 1 | 31397 | 7 | |
| patientid | 2 | radiotherapy | R | A | 3 | 31397 | 7 | |
| City_Code_Patient | 3 | radiotherapy | S | F | 3 | 31397 | 7 | |
| abc Type of Admission | | | | | | | | |
| abc Severity of Illness | | | | | | | | |
| Visitors ...h Patient | | | | | | | | |
| abc Age | | | | | | | | |

**Data Preparation Link:**

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