## **Assignment #1 Report**

#### **Healthcare dataset**

1-What is the total number of features (independent variables) in the dataset, and what are their names?

As I understand; The number of features is different from the number of the independent variables.

The number of features includes all columns: 15.

Number of independent variables: Not determined yet.

```
#number of features
len(dataset.columns)

15
```

2-Which blood types are represented in the dataset?

```
['B-', 'A+', 'A-', 'O+', 'AB+', 'AB-', 'B+', 'O-']
```

```
#blood types
dataset['Blood Type'].unique()

array(['B-', 'A+', 'A-', 'O+', 'AB+', 'AB-', 'B+', 'O-'], dtype=object)
```

3-Based on the dataset, which blood type is the most common, and which is the rarest?

Most frequent : A-Rarest : O-

#### 4-How many different medical conditions are included in the dataset?

6

```
#medical conditions
len(dataset['Medical Condition'].unique())

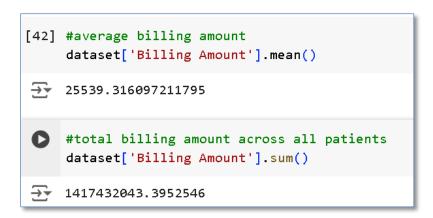
6
```

#### 5-Who is the youngest and oldest patient in the dataset?

Youngest: jamES BasS phD Oldest: DAVId NeWTOn

# 6-What is the average billing amount, and what is the total billing amount across all patients?

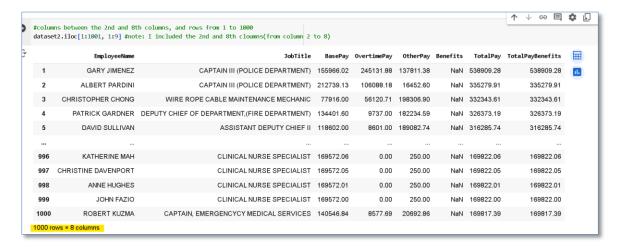
Average billing amount: 25539.316097211795 Total billing amount: 1417432043.3952546



### Salary dataset

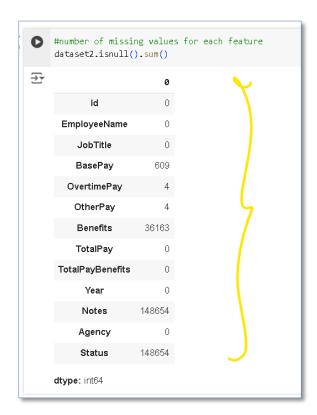
1. Select all columns between the 2nd and 8th columns, and rows from 1 to 1000.

dataset2.iloc[1:1001, 1:9] #note: I included the 2nd and 8th columns(from column 2 to 8)

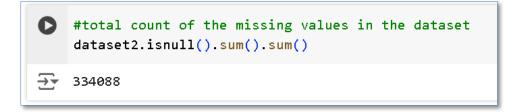


2. How many missing values are there for each feature, and what is the total count of missing values in the dataset?

Number of missing values are there for each feature:



Total count of missing values in the dataset: 334088



## 3. What is the median value for the "basepay" feature?

Number of missing values are there for each feature: 65007.45



Done by: Mahar Zeyad.