BLOOD BANK

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MTA_EDA_Project1

Proposal For Blood Donation Project

Background:

- Blood Bank is a group of the Ministry of Health responsible for providing the blood needs of hospitals and collecting blood donations from the population.
- Problem is sometimes there is an urgent need for blood in hospitals because of the lack of blood donors who come to hospitals.
- The solution to the problem is to provide a Blood donation mobile health vehicle near busy stations on weekends or weekdays, this will help and speed up the process of obtaining blood in public places

Data Description:

- The New York subway MTA turnstile data is a series of data files containing cumulative number of entries and exits by station, turnstile, date and time. Data files are produced weekly, data records are collected typically every 4 hours with some exceptions.
- A data set was used in this project for a period of more than 3 months from MAY to AUG 2021.
- I used this close period to get a quick result in this period because in these periods after the Corona pandemic, the behavior of people was not the same as before.

Number of rows = 3,140,294 rows
Number of columns = 11 columns

Columns	Data Description	Data Type
C/A	Control Area name/Booth name. This is the internal identification of a booth at a given station.	TEXT
UNIT	Remote Unit for a station (R051)	TEXT
SCP	Subunit/Channel/position represents a specific address for a given device	TEXT
STATION	Name assigned to the subway station by operations planning.	TEXT
LINENAME	Train lines stopping at this location. Can contain up to 20 single character identifier.	TEXT
DIVISION	Represents the Line originally the station belonged to BMT, IRT, or IND.	TEXT
DATA	Represents the date of the audit data (MM/DD/YYYY).	DATE
TIME	Represents the time of the reported data (HH:MM:SS).	TIME

DESC	Represent the "REGULAR" scheduled audit event (Normally occurs every 4 hours)	TEXT
ENTRIES	The cumulative entry register value for a device	NUMERIC
EXITS	The cumulative exit register value for a device	NUMERIC

Tools:

Technologies: SQLite ,python, Jupyter notebook.
Libraries: Numpy, Pandas, Matplotlib, Seaborn.