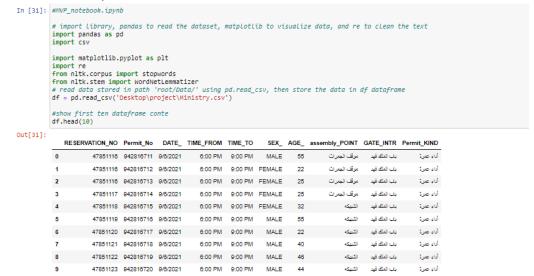
## **MVP**

As MVP, I focused starting the project by simple data to detrmin the capacity of crowd in the holey musqe, And make it the base work of my project.

## Steps of work:

- 1. Preparing the environment
  - . Install Python on my machine.
  - . Install Anaconda.
  - . Install Jupyter Notebook.
  - . Install libraries .
- 2. Import libraries
- 3. Download/Load dataset



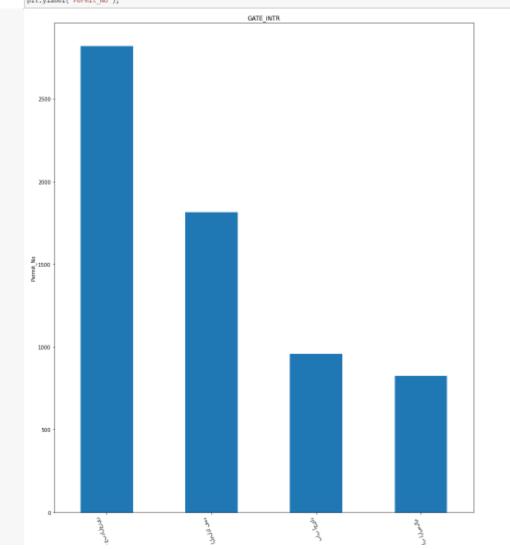
4- explore the data type at each series & check to null values

```
In [32]: # explore the data type at each series
           df.info()
           <class 'pandas.core.frame.DataFrame'>
RangeIndex: 6415 entries, 0 to 6414
Data columns (total 10 columns):
                                   Non-Null Count Dtype
            0 RESERVATION_NO 6415 non-null
                                  6415 non-null
                 Permit_No
                                                       int64
                DATE_
TIME_FROM
                                    6415 non-null
                                                       object
                                    6415 non-null
                 TIME_TO
                                   6415 non-null
                                                       object
                SEX_
                                    6415 non-null
                                                       object
                AGE_ 6415 non-null assembly_POINT 6415 non-null
                                                       int64
                                                       object
                 GATE_INTR
                                   6415 non-null
                                                       object
            9 Permit_KIND
                                  6415 non-null
           dtypes: int64(3), object(7)
           memory usage: 501.3+ KB
In [33]: # check to null values
    df.isna().sum()
Out[33]: RESERVATION_NO
           Permit_No
           DATE_
TIME_FROM
           TIME_TO
           SEX_
           AGE_
assembly_POINT
                                0
           GATE_INTR
           Permit_KIND
           dtype: int64
```

6- check which assembol point we well focus on it.

## 7-6- check which gate\_inter we well focus on it.





And that's it for now! And we well determine the capacity for each gate\_inter>