Data Analytics Day 1 Notes

Python environment - <https://colab.research.google.com/>

Click on link -> New Notebook

Variable: is a container which will hold data for you

For eg.

A = 23 #A is a variable over here

add = "56, Smithers Whitefield Bangalore"

Add

Function is a block of code that is already developed I just need to call function and train it

len(add) - > 33

Len is a function over here

Library is a block of code which is build for a specific purpose. We need to install it for using it. For eg pandas is a library for analytics

**Essential libraries**

import pandas as pd

import io

from google.colab import files

**Upload a file**  
df = files.upload()

**Read the file**

data = pd.read\_csv(io.BytesIO(df['Superstore.csv']),encoding = 'unicode\_escape')

**How to drop null records?**

data.dropna(how = 'all', inplace = True)

**How to find the unique values in my column?**

data['Country'].unique()

**How to replace values in a column?**

data['Country'].replace({'United States': 'USA'}, inplace=True)

**How do we find mean value of a column?**

m = data['Sales'].mean()

**How to replace null values?**

data['Sales'].fillna(value = m, inplace = True)

How to download csv file?

data.to\_csv('Good Work.csv')

files.download('Good Work.csv')

**SQL**

**Environment :** [**https://sqliteonline.com/**](https://sqliteonline.com/)

**How to see the data from all the columns?**

SELECT \* FROM GoodWork

**How do I select only few columns from my table?**

SELECT customer\_name, city, sales, profit FROM GoodWork

**How do i sort my data w.r.t a particular column?**

**SELECT** customer\_name, city, sales, profit **FROM** GoodWork **order by** profit **DESC**

**How do I limit my data?**

SELECT customer\_name, city, sales, profit FROM GoodWork order by profit DESC LIMIT 5

**How do we count the number of rows?**

SELECT COUNT(\*) FROM GoodWork

**HOW DO WE FIND THE AVG OF COLUMN?**

SELECT AVG(sales) FROM GoodWork

**How do I create a relationship between 2 tables?**

SELECT customer\_name, product\_name, returned

FROM GoodWork LEFT JOIN Return\_Order

ON order\_id = orders

**Final Query ?**

SELECT order\_date, ship\_date,customer\_name,segment, city, state, category, product\_name, sales, profit, returned

FROM GoodWork LEFT JOIN Return\_Order

ON order\_id = orders