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“ Tugas Sertifikasi DSBIZ (SIB BLOCKCHAIN)”

EXPLORATORY DATA ANALYSIS ON LAZADA

Lazada is the number one online shopping and selling destination in Southeast Asia.

In this notebooklet's do an Exploratory Data Analysis to review the top selling in October 2, 2019 and analyze the relationship between the reviews, and prices etc which helps the people to buy.

Import Libraries

Importing Libraries

```
[ ] 1 #menghubungkan ke google
    2 from google.colab import drive
    3 drive.mount('/content/drive')
```

Mounted at /content/drive

```
[ ] 1 import pandas as pd
    2 import numpy as np
    3
    4 df = pd.read_csv('/content/drive/MyDrive/AI BLOCKCHAIN/Course mandiri/EDA ON LAZADA/20191002-items.csv')
    5 df = df.sort_values('itemId').reset_index(drop=True)
    6 df.head()
```

	itemId	category	name	brandName	url	price	averageRating	totalReviews	retrievedDate
0	6068	jual-flash-drives	Alienware M17xR5 Core i7-4700 - Hitam	Dell	https://www.lazada.co.id/products/alienware-m1...	30737000	5	5	2019-10-02
1	6068	shop-televisi-digital	Alienware M17xR5 Core i7-4700 - Hitam	Dell	https://www.lazada.co.id/products/alienware-m1...	30737000	5	5	2019-10-02

Get List of Column

```
[ ] 1 df.columns
```

```
Index(['itemId', 'category', 'name', 'brandName', 'url', 'price',
      'averageRating', 'totalReviews', 'retrievedDate'],
      dtype='object')
```

Identify the shape of the dataset

```
1 df.shape
```

```
(10942, 9)
```

Get basic dataset information

```
1 df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 10942 entries, 0 to 10941
Data columns (total 9 columns):
#   Column          Non-Null Count  Dtype
---  -
0   itemId           10942 non-null  int64
1   category         10942 non-null  object
2   name             10942 non-null  object
3   brandName        10940 non-null  object
4   url              10942 non-null  object
5   price            10942 non-null  int64
6   averageRating    10942 non-null  int64
7   totalReviews     10942 non-null  int64
8   retrievedDate    10942 non-null  object
dtypes: int64(4), object(5)
memory usage: 769.5+ KB
```

make sure the item transaction data is only on October 2, 2019

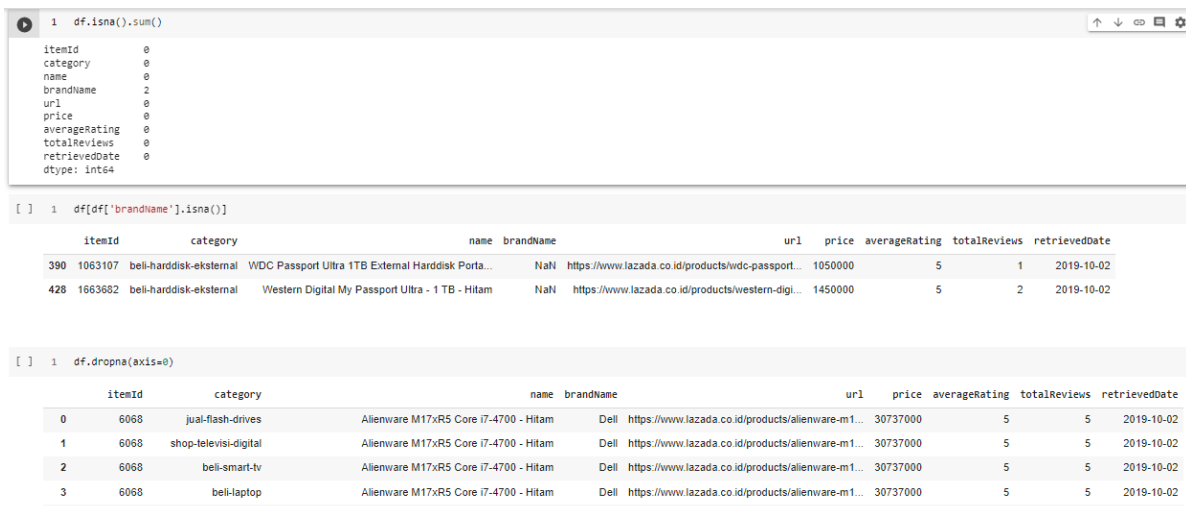
```
[ ] 1 eda_year=df.groupby('retrievedDate').sum().reset_index()
```

```
1 eda_year
```

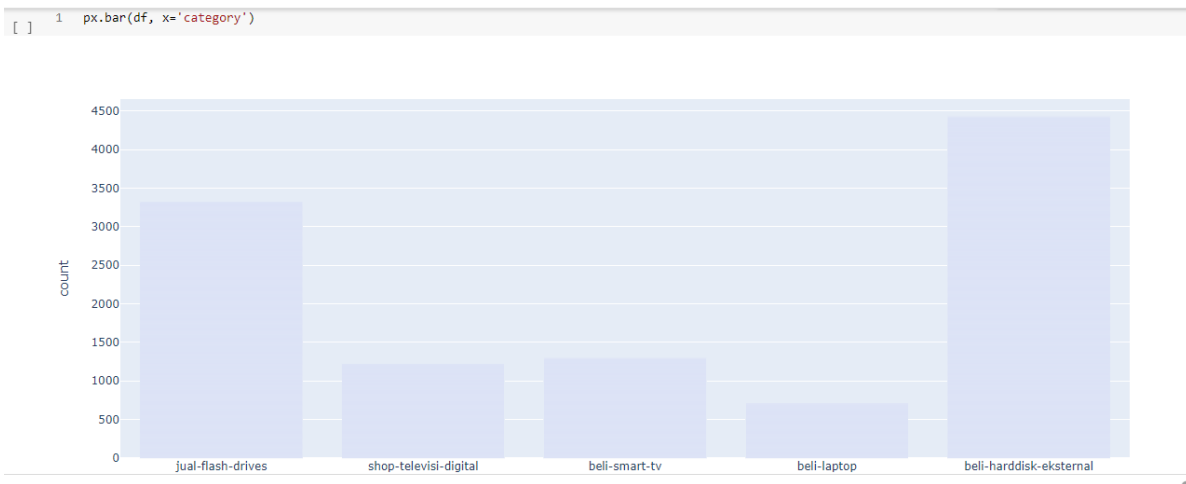
```
retrievedDate    itemId    price  averageRating  totalReviews
0      2019-10-02  3213471716548  33047232096          45646          299477
```

```
[ ] 1 import plotly.express as px
    2 import plotly.graph_objects as go
```

let's look at the missing values



Category data graph



Relationship between total Review & AverageRating



Chart between price data and averageRating

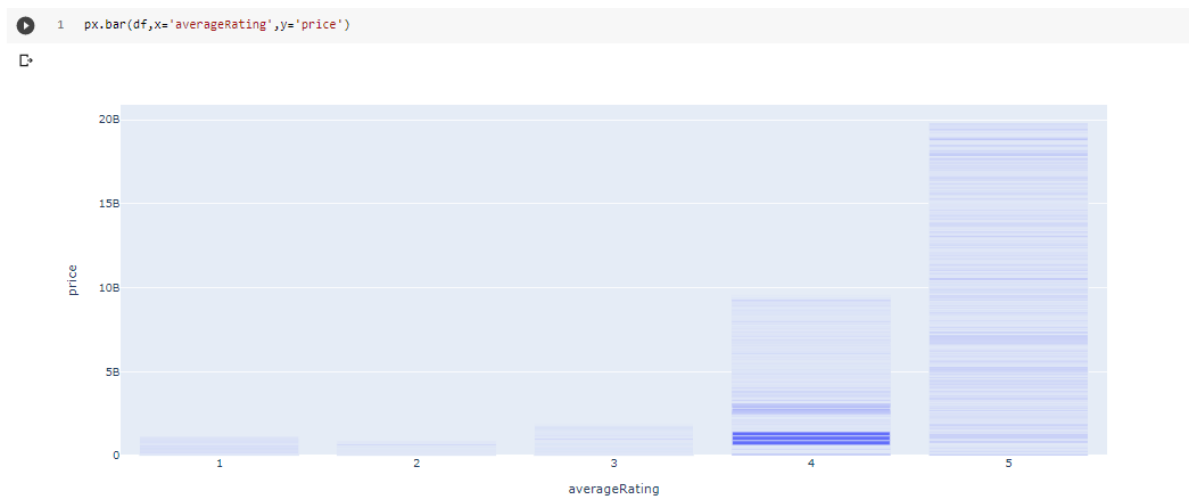


Chart between price data, avergaeRating & category

