

GOOGLE APP STORE DATA ANALYSIS

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Problem Statement

Technology is an increasing need nowadays and used everywhere. One of the features of Technology is android. Which we all use in our daily life. Android is a mobile operating system based on a modified version of the Linux kernel and other open-source software, designed primarily for touchscreen mobile devices such as smartphones and tablets.

Project Work

```
import numpy as np
import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt
%matplotlib inline
```

	Unnamed: 0.1	Unnamed: 0	App	Category	Rating	Reviews	Size	Installs	Type	Price	Content Rating	Last Updated	Current Ver	Minimum Android Ver	Genres
0	0	0	Photo Editor & Candy Camera & Grid & ScrapBook	Art And Design	4.1	159	19.0	10000	Free	0.0	Others	January 7, 2018	1.0.0	4.0.3	Art & Design
1	1	1	Coloring book moana	Art And Design	3.9	967	14.0	500000	Free	0.0	Others	January 15, 2018	2.0.0	4.0.3	Art & Design
2	2	5	U Launcher Lite – FREE Live Cool Themes, Hide ...	Art And Design	4.7	87510	8.7	5000000	Free	0.0	Others	August 1, 2018	1.2.4	4.0.3	Art & Design
3	3	6	Sketch - Draw & Paint	Art And Design	4.5	215644	25.0	50000000	Free	0.0	Teen	June 8, 2018	Varies with device	4.2	Art & Design
4	4	7	Pixel Draw - Number Art Coloring Book	Art And Design	4.3	967	2.8	100000	Free	0.0	Others	June 20, 2018	1.1	4.4	Art & Design

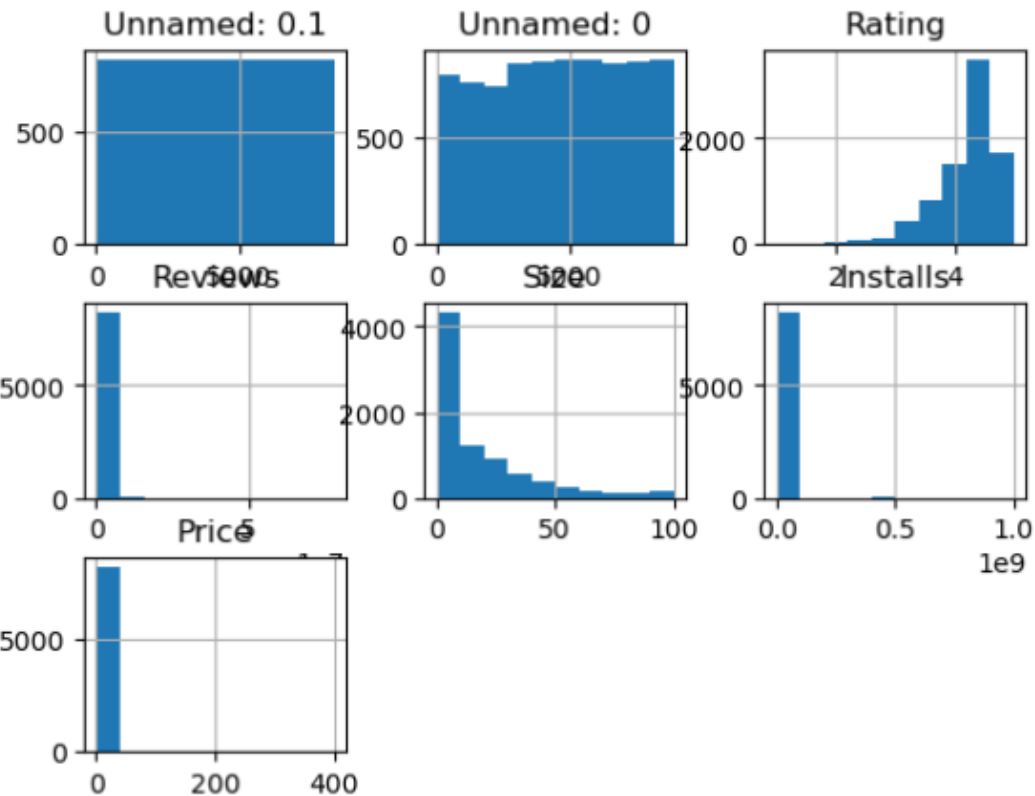
```
Google_data.describe()
```

	Unnamed: 0.1	Unnamed: 0	Rating	Reviews	Size	Installs	Price
count	8276.000000	8276.000000	8276.000000	8.276000e+03	8276.000000	8.276000e+03	8276.000000
mean	4137.500000	4560.609957	4.175121	2.803270e+05	18.897761	9.658206e+06	1.028758
std	2389.219747	2560.879748	0.534762	2.096170e+06	22.376521	5.986505e+07	16.776622
min	0.000000	0.000000	1.000000	1.000000e+00	0.008300	1.000000e+00	0.000000
25%	2068.750000	2459.750000	4.000000	1.290000e+02	2.800000	1.000000e+04	0.000000
50%	4137.500000	4613.500000	4.300000	3.213500e+03	9.500000	1.000000e+05	0.000000
75%	6206.250000	6765.250000	4.500000	4.627800e+04	27.000000	1.000000e+06	0.000000
max	8275.000000	8916.000000	5.000000	7.815831e+07	100.000000	1.000000e+09	400.000000

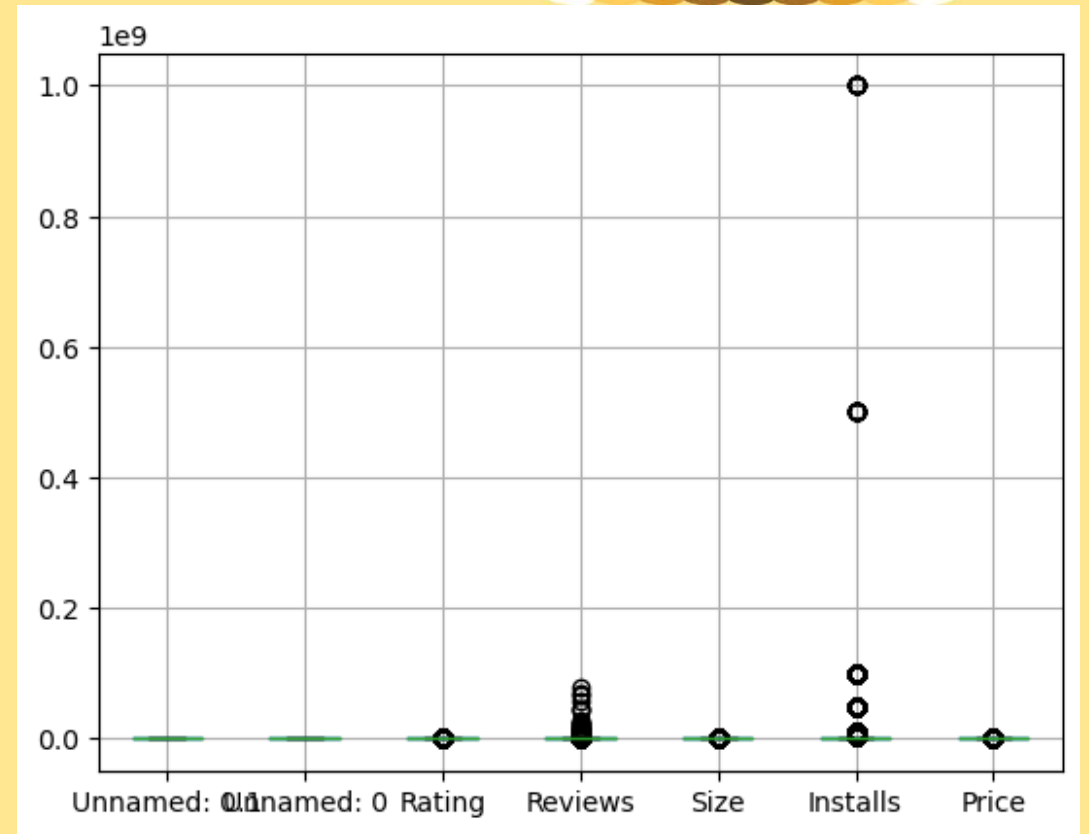
Rows: 8276
Columns: 15

```
Google_data['Category'].unique()
```

```
array(['Art And Design', 'Auto And Vehicles', 'Beauty',  
      'Books And Reference', 'Business', 'Comics', 'Communication',  
      'Dating', 'Education', 'Entertainment', 'Events', 'Finance',  
      'Food And Drink', 'Health And Fitness', 'House And Home',  
      'Libraries And Demo', 'Lifestyle', 'Game', 'Family', 'Medical',  
      'Social', 'Shopping', 'Photography', 'Sports', 'Travel And Local',  
      'Tools', 'Personalization', 'Productivity', 'Parenting', 'Weather',  
      'Video Players', 'News And Magazines', 'Maps And Navigation'],  
      dtype=object)
```



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```

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 8276 entries, 0 to 8275
Data columns (total 15 columns):
#   Column              Non-Null Count  Dtype  
---  -
0   Unnamed: 0.1         8276 non-null   int64   
1   Unnamed: 0           8276 non-null   int64   
2   App                  8276 non-null   object  
3   Category             8276 non-null   object  
4   Rating               8276 non-null   float64  
5   Reviews              8276 non-null   int64   
6   Size                 8276 non-null   float64  
7   Installs             8276 non-null   int64   
8   Type                 8276 non-null   object  
9   Price                8276 non-null   float64  
10  Content Rating       7915 non-null   object  
11  Last Updated         8276 non-null   object  
12  Current Ver          8276 non-null   object  
13  Minimum Android Ver  8276 non-null   object  
14  Genres               8276 non-null   object  
dtypes: float64(3), int64(4), object(8)
memory usage: 970.0+ KB

```

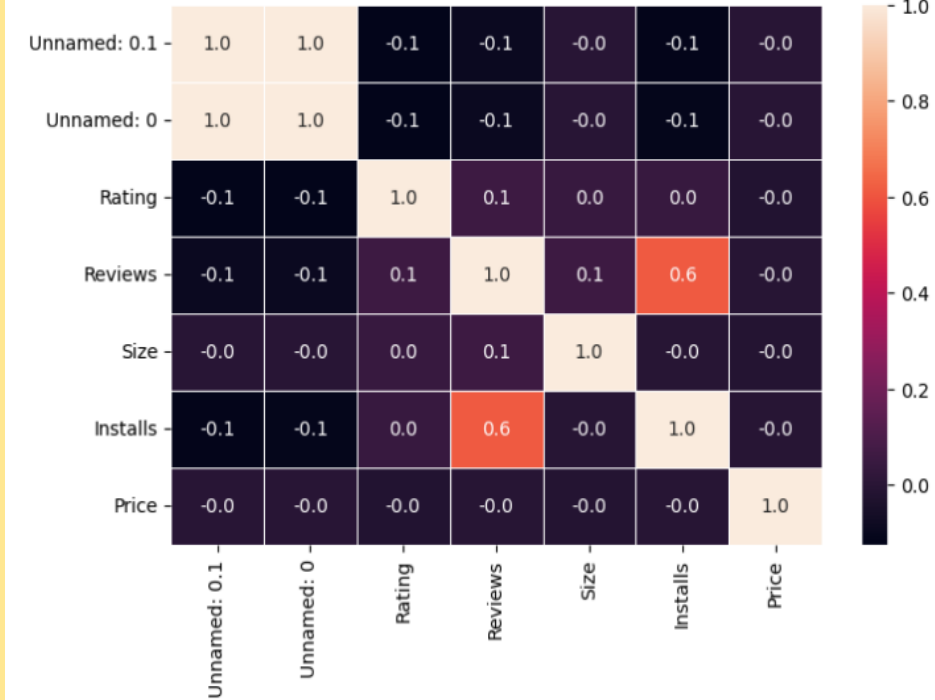
	Unnamed: 0.1	Unnamed: 0	App	Category	Rating	Reviews	Size	Installs	Type	Price	Content Rating	Last Updated	Current Ver	Minimum Android Ver	Genres
0	False	False	False	False	False	False	False	False	False	False	False	False	False	False	False
1	False	False	False	False	False	False	False	False	False	False	False	False	False	False	False
2	False	False	False	False	False	False	False	False	False	False	False	False	False	False	False
3	False	False	False	False	False	False	False	False	False	False	False	False	False	False	False
4	False	False	False	False	False	False	False	False	False	False	False	False	False	False	False
...
8271	False	False	False	False	False	False	False	False	False	False	False	False	False	False	False
8272	False	False	False	False	False	False	False	False	False	False	False	False	False	False	False
8273	False	False	False	False	False	False	False	False	False	False	False	False	False	False	False
8274	False	False	False	False	False	False	False	False	False	False	True	False	False	False	False
8275	False	False	False	False	False	False	False	False	False	False	False	False	False	False	False

8276 rows × 15 columns

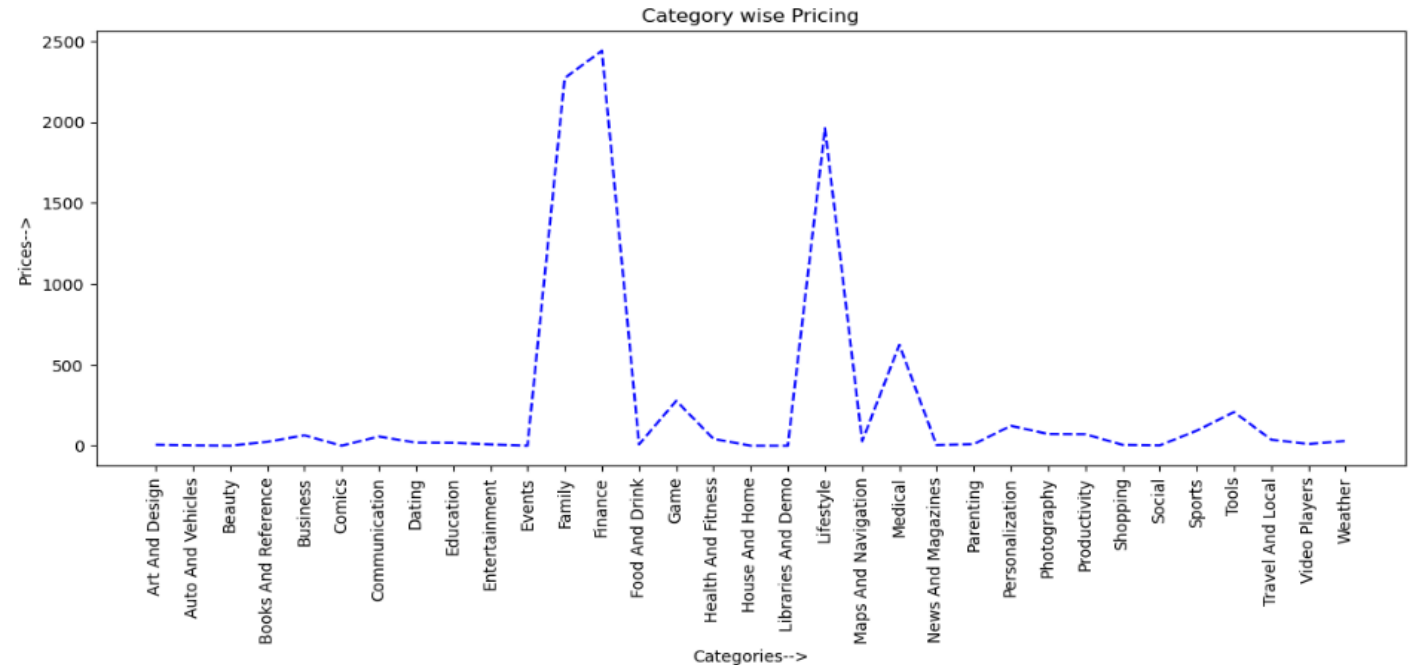
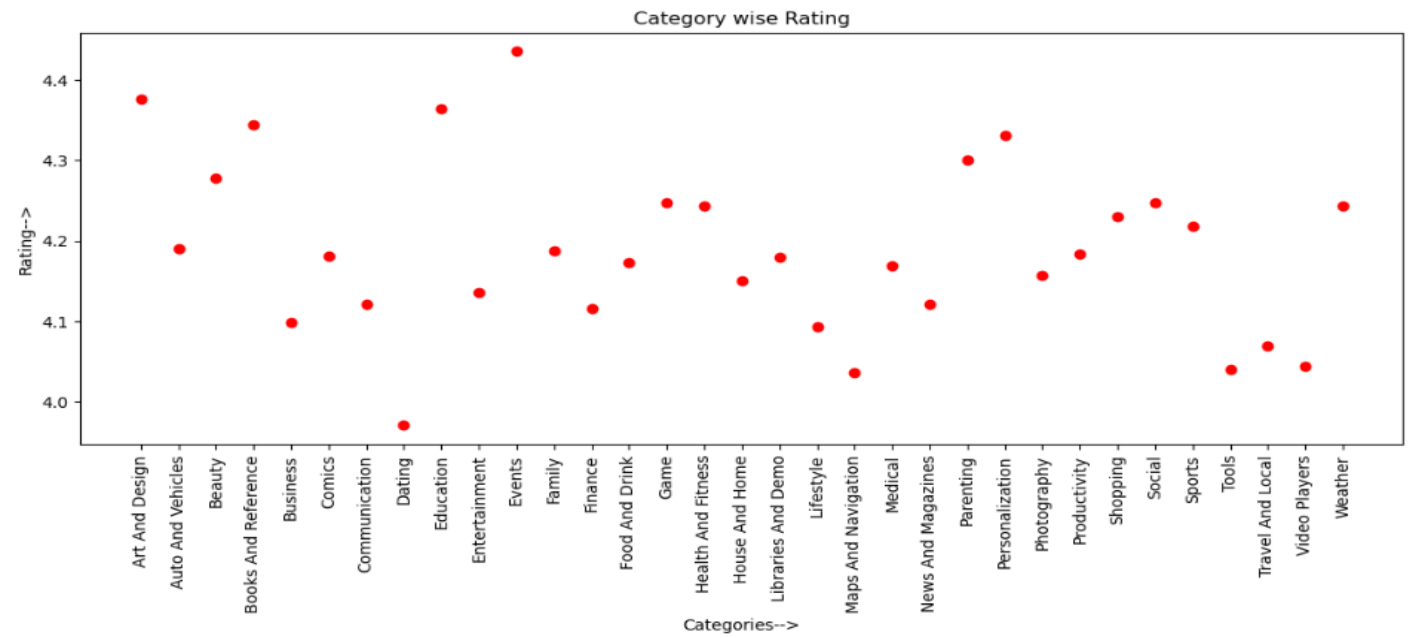
Google_data.corr()

	Unnamed: 0.1	Unnamed: 0	Rating	Reviews	Size	Installs	Price
Unnamed: 0.1	1.000000	0.999571	-0.123565	-0.092450	-0.004724	-0.115358	-0.002715
Unnamed: 0	0.999571	1.000000	-0.124091	-0.092332	-0.005205	-0.114801	-0.001452
Rating	-0.123565	-0.124091	1.000000	0.059430	0.041181	0.042372	-0.021316
Reviews	-0.092450	-0.092332	0.059430	1.000000	0.056789	0.611471	-0.008080
Size	-0.004724	-0.005205	0.041181	0.056789	1.000000	-0.005860	-0.017899
Installs	-0.115358	-0.114801	0.042372	0.611471	-0.005860	1.000000	-0.009859
Price	-0.002715	-0.001452	-0.021316	-0.008080	-0.017899	-0.009859	1.000000

Correlation map



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THANK YOU

