```
In [2]: import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
```

In [3]: sm = pd.read_csv('sp.csv',encoding='latin-1')
#for first 5 data entries
sm.head()

Out[3]:

	Company	Location	Country	Date	Year	year_class	Time	Rocket	Mission
0	RVSN USSR	Site 1/5, Baikonur Cosmodrome, Kazakhstan	Kazakhstan	10/4/1957	1957	1957-67	19:28:00	Sputnik 8K71PS	Sputnik-1
1	RVSN USSR	Site 1/5, Baikonur Cosmodrome, Kazakhstan	Kazakhstan	11/3/1957	1957	1957-67	2:30:00	Sputnik 8K71PS	Sputnik-2
2	US Navy	LC-18A, Cape Canaveral AFS, Florida, USA	USA	12/6/1957	1957	1957-67	16:44:00	Vanguard	Vanguard TV3
3	AMBA	LC-26A, Cape Canaveral AFS, Florida, USA	USA	2/1/1958	1958	1957-67	3:48:00	Juno I	Explorer 1
4	US Navy	LC-18A, Cape Canaveral AFS, Florida, USA	USA	2/5/1958	1958	1957-67	7:33:00	Vanguard	Vanguard TV3BU
4									•

In [4]: #for last 5 data entries
sm.tail()

Out[4]:

	Company	Location	Country	Date	Year	year_class	Time	Rocket	Mission	Ro
4625	SpaceX	SLC-4E, Vandenberg SFB, California, USA	USA	7/22/2022	2022	2012-22	17:39:00	Falcon 9 Block 5	Starlink Group 3-2	
4626	CASC	LC-101, Wenchang Satellite Launch Center, China	China	7/24/2022	2022	2012-22	6:22:00	Long March 5B	Wentian	
4627	SpaceX	LC-39A, Kennedy Space Center, Florida, USA	USA	7/24/2022	2022	2012-22	13:38:00	Falcon 9 Block 5	Starlink Group 4-25	
4628	CAS Space	Jiuquan Satellite Launch Center, China	China	7/27/2022	2022	2012-22	4:12:00	Zhongke- 1A	Demo Flight	
4629	CASC	LC-3, Xichang Satellite Launch Center, China	China	7/29/2022	2022	2012-22	13:28:00	Long March 2D	Yaogan 35 Group 03	

In [5]: #to get all the column headers
sm.columns

```
In [6]: #to get data summary
sm.info()
```

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 4630 entries, 0 to 4629
Data columns (total 12 columns):

#	Column	Non-Null Count	Dtype			
0	Company	4630 non-null	object			
1	Location	4630 non-null	object			
2	Country	4630 non-null	object			
3	Date	4630 non-null	object			
4	Year	4630 non-null	int64			
5	year_class	4630 non-null	object			
6	Time	4503 non-null	object			
7	Rocket	4630 non-null	object			
8	Mission	4630 non-null	object			
9	RocketStatus	4630 non-null	object			
10	Price	1265 non-null	object			
11	MissionStatus	4630 non-null	object			
dtypos: int64(1) object(11)						

dtypes: int64(1), object(11)
memory usage: 434.2+ KB

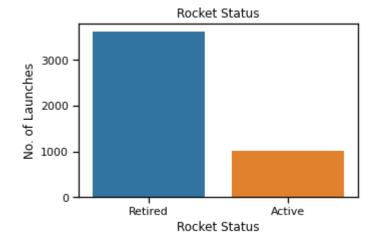
In [7]: #calculating basic statistics measures sm.describe()

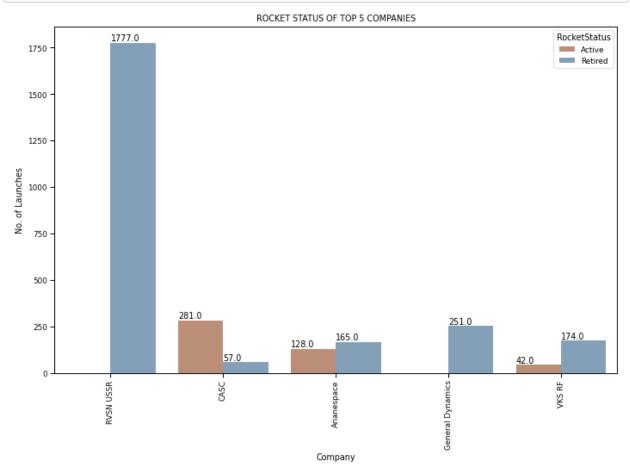
Out[7]:

	Year
count	4630.000000
mean	1989.616199
std	19.373003
min	1957.000000
25%	1973.000000
50%	1987.000000
75%	2007.000000
max	2022.000000

Retired 3620 Active 1010

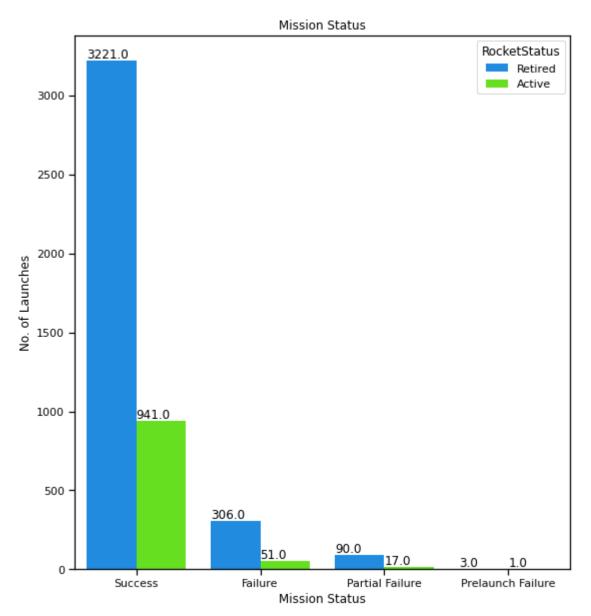
Name: RocketStatus, dtype: int64

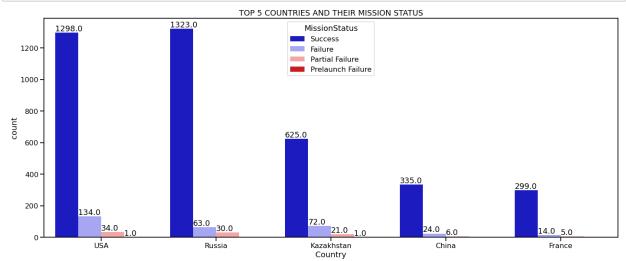


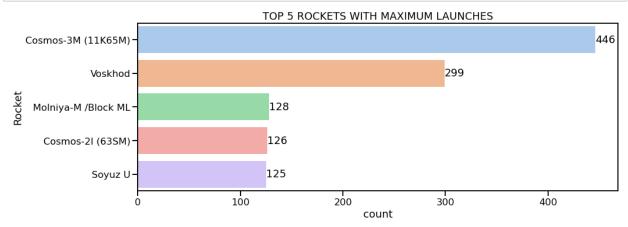


Success 4162
Failure 357
Partial Failure 107
Prelaunch Failure 4

Name: MissionStatus, dtype: int64







Percentage of Launches in each Span of 11 Years

