- l import pandas as pd
- 2 import numpy as np
- 3 import seaborn as sns
- import matplotlib.pyplot as plt
- 5 sns.set_style('whitegrid')
- %matplotlib inline
- 1 df = pd.read_csv("/content/drive/MyDrive/Colab Notebooks/Dataset/Space X.csv")
- 2 df.head()

	Flight Number	Launch Date	Launch Time	Launch Site	Vehicle Type	Payload Name	Payload Type	Payload Mass (kg)	Pay C
0	F1-1	24 March 2006	22:30	Marshall Islands	Falcon 1	FalconSAT- 2	Research Satellite	19.5	
						DemoSat			
2	F1-3	3 August 2008	03:34	Marshall Islands	Falcon 1	Trailblazer	Communication Satellite	NaN	
3	F1-3	3 August 2008	03:34	Marshall Islands	Falcon 1	PRESat, NanoSail-D	Research Satellites	8.0	
4	F1-3	3 August 2008	03:34	Marshall Islands	Falcon 1	Explorers	Human Remains	NaN	
4									•

1 df.shape

(41. 16

1 df.info()

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 41 entries, 0 to 40
Data columns (total 16 columns):
                        Non-Null Count Dtype
 0 Flight Number 41 non-null
1 Launch Date 41 non-null
2 Launch Time 41 non-null
     Launch Site
                          41 non-null
     Vehicle Type
Payload Name
                          41 non-null
                                             object
                                             object
     Payload Type
                           38 non-null
                                             object
     Payload Mass (kg) 33 non-null
                                             float64
     Payload Orbit
                           36 non-null
     Customer Name
                                             object
                         39 non-null
                                             object
 11 Customer course
                          41 non-null
 13 Failure Reason
                          8 non-null
                                             object
14 Landing Type
15 Landing Outcome
                                             object
                                             object
dtypes: float64(1), object(15) memory usage: 5.2+ KB
```

1 df.dtypes

Flight Number	object
Launch Date	object
Launch Time	object
Launch Site	object
Vehicle Type	object
Payload Name	object
Payload Type	object
Payload Mass (kg)	float64
Payload Orbit	object
Customer Name	object
Customer Type	object
Customer Country	object
Mission Outcome	object
Failure Reason	object
Landing Type	object

1 # Description of data

2 df.describe()

	Payload Mass (kg)	
count	33.000000	11.
mean	2739.772727	
std	2131.502973	
	8.000000	
25%	570.000000	
50%	2490.000000	
75%	4159.000000	
max	9600.000000	

- plt.figure(figsize=(18,6))
 sns.heatmap(df.isnull(), cbar=False, cmap='viridis', yticklabels=False)
 plt.title('Missing Values')

