

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

```
In [3]: df=pd.read_csv('UberDataset - UberDataset.csv')
df
```

Out[3]:

	START_DATE	END_DATE	CATEGORY	START	STOP	MILES	PURPO
0	01-01-2016 21:11	01-01-2016 21:17	Business	Fort Pierce	Fort Pierce	5.1	Meal/Entert
1	01-02-2016 1:25	01-02-2016 1:37	Business	Fort Pierce	Fort Pierce	5.0	N
2	01-02-2016 20:25	01-02-2016 20:38	Business	Fort Pierce	Fort Pierce	4.8	Errand/Suppl
3	01-05-2016 17:31	01-05-2016 17:45	Business	Fort Pierce	Fort Pierce	4.7	Meeti
4	01-06-2016 14:42	01-06-2016 15:49	Business	Fort Pierce	West Palm Beach	63.7	Customer V
...
1151	12/31/2016 13:24	12/31/2016 13:42	Business	Kar?chi	Unknown Location	3.9	Temporary S
1152	12/31/2016 15:03	12/31/2016 15:38	Business	Unknown Location	Unknown Location	16.2	Meeti
1153	12/31/2016 21:32	12/31/2016 21:50	Business	Katunayake	Gampaha	6.4	Temporary S
1154	12/31/2016 22:08	12/31/2016 23:51	Business	Gampaha	Ilukwatta	48.2	Temporary S
1155	Totals	NaN	NaN	NaN	NaN	12204.7	N

1156 rows × 7 columns



```
In [4]: (r,c)=df.shape
print("rows:-",r)
print("columns:-",c)
```

rows:- 1156
columns:- 7

```
In [5]: df.info()
```

```

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 1156 entries, 0 to 1155
Data columns (total 7 columns):
 #   Column      Non-Null Count  Dtype
---  -
 0   START_DATE  1156 non-null   object
 1   END_DATE    1155 non-null   object
 2   CATEGORY    1155 non-null   object
 3   START       1155 non-null   object
 4   STOP        1155 non-null   object
 5   MILES       1156 non-null   float64
 6   PURPOSE     653 non-null    object
dtypes: float64(1), object(6)
memory usage: 63.3+ KB

```

In [6]: `df.columns`

Out[6]: Index(['START_DATE', 'END_DATE', 'CATEGORY', 'START', 'STOP', 'MILES',
 'PURPOSE'],
 dtype='object')

In [7]: `df.describe().T`

	count	mean	std	min	25%	50%	75%	max
MILES	1156.0	21.115398	359.299007	0.5	2.9	6.0	10.4	12204.7

In [8]: `df.dtypes`

```

Out[8]: START_DATE    object
        END_DATE      object
        CATEGORY      object
        START         object
        STOP          object
        MILES         float64
        PURPOSE       object
        dtype: object

```

In [9]: `df.isnull().sum()`

```

Out[9]: START_DATE    0
        END_DATE      1
        CATEGORY      1
        START         1
        STOP          1
        MILES         0
        PURPOSE       503
        dtype: int64

```

In [10]: `df['PURPOSE'].fillna("Not.",inplace=True)`

```
C:\Users\hp\AppData\Local\Temp\ipykernel_11832\2373822972.py:1: FutureWarning: A value is trying to be set on a copy of a DataFrame or Series through chained assignment using an inplace method.
The behavior will change in pandas 3.0. This inplace method will never work because the intermediate object on which we are setting values always behaves as a copy.

For example, when doing 'df[col].method(value, inplace=True)', try using 'df.method({col: value}, inplace=True)' or df[col] = df[col].method(value) instead, to perform the operation inplace on the original object.

df['PURPOSE'].fillna("Not.",inplace=True)
```

```
In [11]: df
```

Out[11]:

	START_DATE	END_DATE	CATEGORY	START	STOP	MILES	PURPOSE
0	01-01-2016 21:11	01-01-2016 21:17	Business	Fort Pierce	Fort Pierce	5.1	Meal/Entert
1	01-02-2016 1:25	01-02-2016 1:37	Business	Fort Pierce	Fort Pierce	5.0	N
2	01-02-2016 20:25	01-02-2016 20:38	Business	Fort Pierce	Fort Pierce	4.8	Errand/Suppl
3	01-05-2016 17:31	01-05-2016 17:45	Business	Fort Pierce	Fort Pierce	4.7	Meeti
4	01-06-2016 14:42	01-06-2016 15:49	Business	Fort Pierce	West Palm Beach	63.7	Customer V
...	
1151	12/31/2016 13:24	12/31/2016 13:42	Business	Kar?chi	Unknown Location	3.9	Temporary S
1152	12/31/2016 15:03	12/31/2016 15:38	Business	Unknown Location	Unknown Location	16.2	Meeti
1153	12/31/2016 21:32	12/31/2016 21:50	Business	Katunayake	Gampaha	6.4	Temporary S
1154	12/31/2016 22:08	12/31/2016 23:51	Business	Gampaha	Ilukwatta	48.2	Temporary S
1155	Totals	NaN	NaN	NaN	NaN	12204.7	N

1156 rows × 7 columns



```
In [12]: df['START_DATE']=pd.to_datetime(df['START_DATE'],errors='coerce')
df['END_DATE']=pd.to_datetime(df['END_DATE'],errors='coerce')
df
```

Out[12]:

	START_DATE	END_DATE	CATEGORY	START	STOP	MILES	PURPO
0	2016-01-01 21:11:00	2016-01-01 21:17:00	Business	Fort Pierce	Fort Pierce	5.1	Meal/Entert
1	2016-01-02 01:25:00	2016-01-02 01:37:00	Business	Fort Pierce	Fort Pierce	5.0	N
2	2016-01-02 20:25:00	2016-01-02 20:38:00	Business	Fort Pierce	Fort Pierce	4.8	Errand/Suppl
3	2016-01-05 17:31:00	2016-01-05 17:45:00	Business	Fort Pierce	Fort Pierce	4.7	Meeti
4	2016-01-06 14:42:00	2016-01-06 15:49:00	Business	Fort Pierce	West Palm Beach	63.7	Customer Vi
...	
1151	NaT	NaT	Business	Kar?chi	Unknown Location	3.9	Temporary S
1152	NaT	NaT	Business	Unknown Location	Unknown Location	16.2	Meeti
1153	NaT	NaT	Business	Katunayake	Gampaha	6.4	Temporary S
1154	NaT	NaT	Business	Gampaha	Ilukwatta	48.2	Temporary S
1155	NaT	NaT	NaN	NaN	NaN	12204.7	N

1156 rows × 7 columns



```
In [13]: df['START_DATE'].isnull().sum()
```

Out[13]: np.int64(735)

```
In [14]: df['START_DATE'].fillna(method='ffill',inplace=True)
```

C:\Users\hp\AppData\Local\Temp\ipykernel_11832\3100504763.py:1: FutureWarning: A value is trying to be set on a copy of a DataFrame or Series through chained assignment using an inplace method.

The behavior will change in pandas 3.0. This inplace method will never work because the intermediate object on which we are setting values always behaves as a copy.

For example, when doing 'df[col].method(value, inplace=True)', try using 'df.method({col: value}, inplace=True)' or df[col] = df[col].method(value) instead, to perform the operation inplace on the original object.

```
df['START_DATE'].fillna(method='ffill',inplace=True)
```

C:\Users\hp\AppData\Local\Temp\ipykernel_11832\3100504763.py:1: FutureWarning: Series.fillna with 'method' is deprecated and will raise in a future version. Use obj.ffill() or obj.bfill() instead.

```
df['START_DATE'].fillna(method='ffill',inplace=True)
```

```
In [15]: df['END_DATE'].isnull().sum()
```

```
Out[15]: np.int64(736)
```

```
In [16]: df['END_DATE'].fillna(method='ffill',inplace=True)
```

C:\Users\hp\AppData\Local\Temp\ipykernel_11832\4058995039.py:1: FutureWarning: A value is trying to be set on a copy of a DataFrame or Series through chained assignment using an inplace method.

The behavior will change in pandas 3.0. This inplace method will never work because the intermediate object on which we are setting values always behaves as a copy.

For example, when doing 'df[col].method(value, inplace=True)', try using 'df.method({col: value}, inplace=True)' or df[col] = df[col].method(value) instead, to perform the operation inplace on the original object.

```
df['END_DATE'].fillna(method='ffill',inplace=True)
```

C:\Users\hp\AppData\Local\Temp\ipykernel_11832\4058995039.py:1: FutureWarning: Series.fillna with 'method' is deprecated and will raise in a future version. Use obj.ffill() or obj.bfill() instead.

```
df['END_DATE'].fillna(method='ffill',inplace=True)
```

```
In [17]: df['CATEGORY'].fillna(method='ffill',inplace=True)
```

C:\Users\hp\AppData\Local\Temp\ipykernel_11832\2029814591.py:1: FutureWarning: A value is trying to be set on a copy of a DataFrame or Series through chained assignment using an inplace method.

The behavior will change in pandas 3.0. This inplace method will never work because the intermediate object on which we are setting values always behaves as a copy.

For example, when doing 'df[col].method(value, inplace=True)', try using 'df.method({col: value}, inplace=True)' or df[col] = df[col].method(value) instead, to perform the operation inplace on the original object.

```
df['CATEGORY'].fillna(method='ffill',inplace=True)
```

C:\Users\hp\AppData\Local\Temp\ipykernel_11832\2029814591.py:1: FutureWarning: Series.fillna with 'method' is deprecated and will raise in a future version. Use obj.ffill() or obj.bfill() instead.

```
df['CATEGORY'].fillna(method='ffill',inplace=True)
```

```
In [18]: df['START'].fillna(method='ffill',inplace=True)
```

C:\Users\hp\AppData\Local\Temp\ipykernel_11832\582321262.py:1: FutureWarning: A value is trying to be set on a copy of a DataFrame or Series through chained assignment using an inplace method.

The behavior will change in pandas 3.0. This inplace method will never work because the intermediate object on which we are setting values always behaves as a copy.

For example, when doing 'df[col].method(value, inplace=True)', try using 'df.method({col: value}, inplace=True)' or df[col] = df[col].method(value) instead, to perform the operation inplace on the original object.

```
df['START'].fillna(method='ffill',inplace=True)
```

C:\Users\hp\AppData\Local\Temp\ipykernel_11832\582321262.py:1: FutureWarning: Series.fillna with 'method' is deprecated and will raise in a future version. Use obj.ffill() or obj.bfill() instead.

```
df['START'].fillna(method='ffill',inplace=True)
```

```
In [19]: df['STOP'].fillna(method='ffill',inplace=True)
```

C:\Users\hp\AppData\Local\Temp\ipykernel_11832\2867485326.py:1: FutureWarning: A value is trying to be set on a copy of a DataFrame or Series through chained assignment using an inplace method.

The behavior will change in pandas 3.0. This inplace method will never work because the intermediate object on which we are setting values always behaves as a copy.

For example, when doing 'df[col].method(value, inplace=True)', try using 'df.method({col: value}, inplace=True)' or df[col] = df[col].method(value) instead, to perform the operation inplace on the original object.

```
df['STOP'].fillna(method='ffill',inplace=True)
```

C:\Users\hp\AppData\Local\Temp\ipykernel_11832\2867485326.py:1: FutureWarning: Series.fillna with 'method' is deprecated and will raise in a future version. Use obj.ffill() or obj.bfill() instead.

```
df['STOP'].fillna(method='ffill',inplace=True)
```

```
In [20]: df['MILES'].fillna(method='ffill',inplace=True)
```

C:\Users\hp\AppData\Local\Temp\ipykernel_11832\3362399603.py:1: FutureWarning: A value is trying to be set on a copy of a DataFrame or Series through chained assignment using an inplace method.

The behavior will change in pandas 3.0. This inplace method will never work because the intermediate object on which we are setting values always behaves as a copy.

For example, when doing 'df[col].method(value, inplace=True)', try using 'df.method({col: value}, inplace=True)' or df[col] = df[col].method(value) instead, to perform the operation inplace on the original object.

```
df['MILES'].fillna(method='ffill',inplace=True)
```

C:\Users\hp\AppData\Local\Temp\ipykernel_11832\3362399603.py:1: FutureWarning: Series.fillna with 'method' is deprecated and will raise in a future version. Use obj.ffill() or obj.bfill() instead.

```
df['MILES'].fillna(method='ffill',inplace=True)
```

In [21]: df

Out[21]:

START_DATE

END_DATE

CATEGORY

START

STOP

MILES

PURPO

0	2016-01-01 21:11:00	2016-01-01 21:17:00	Business	Fort Pierce	Fort Pierce	5.1	Meal/Entert
1	2016-01-02 01:25:00	2016-01-02 01:37:00	Business	Fort Pierce	Fort Pierce	5.0	N
2	2016-01-02 20:25:00	2016-01-02 20:38:00	Business	Fort Pierce	Fort Pierce	4.8	Errand/Suppl
3	2016-01-05 17:31:00	2016-01-05 17:45:00	Business	Fort Pierce	Fort Pierce	4.7	Meeti
4	2016-01-06 14:42:00	2016-01-06 15:49:00	Business	Fort Pierce	West Palm Beach	63.7	Customer Vi
...	
1151	2016-12-12 20:48:00	2016-12-12 20:57:00	Business	Kar?chi	Unknown Location	3.9	Temporary S
1152	2016-12-12 20:48:00	2016-12-12 20:57:00	Business	Unknown Location	Unknown Location	16.2	Meeti
1153	2016-12-12 20:48:00	2016-12-12 20:57:00	Business	Katunayake	Gampaha	6.4	Temporary S
1154	2016-12-12 20:48:00	2016-12-12 20:57:00	Business	Gampaha	Ilukwatta	48.2	Temporary S
1155	2016-12-12 20:48:00	2016-12-12 20:57:00	Business	Gampaha	Ilukwatta	12204.7	N

1156 rows × 7 columns



In [22]:

df.dtypes

Out[22]:

START_DATE

datetime64[ns]

END_DATE

datetime64[ns]

CATEGORY

object

START

object

STOP

object

MILES

float64

PURPOSE

object

dtype: object

In [23]:

df['Date']=pd.DatetimeIndex(df['START_DATE']).date


```
In [24]: df.head(10)
```

Out[24]:

	START_DATE	END_DATE	CATEGORY	START	STOP	MILES	PURPOSE	Da
0	2016-01-01 21:11:00	2016-01-01 21:17:00	Business	Fort Pierce	Fort Pierce	5.1	Meal/Entertain	201 01-
1	2016-01-02 01:25:00	2016-01-02 01:37:00	Business	Fort Pierce	Fort Pierce	5.0	Not.	201 01-
2	2016-01-02 20:25:00	2016-01-02 20:38:00	Business	Fort Pierce	Fort Pierce	4.8	Errand/Supplies	201 01-
3	2016-01-05 17:31:00	2016-01-05 17:45:00	Business	Fort Pierce	Fort Pierce	4.7	Meeting	201 01-
4	2016-01-06 14:42:00	2016-01-06 15:49:00	Business	Fort Pierce	West Palm Beach	63.7	Customer Visit	201 01-
5	2016-01-06 17:15:00	2016-01-06 17:19:00	Business	West Palm Beach	West Palm Beach	4.3	Meal/Entertain	201 01-
6	2016-01-06 17:30:00	2016-01-06 17:35:00	Business	West Palm Beach	Palm Beach	7.1	Meeting	201 01-
7	2016-01-07 13:27:00	2016-01-07 13:33:00	Business	Cary	Cary	0.8	Meeting	201 01-
8	2016-01-10 08:05:00	2016-01-10 08:25:00	Business	Cary	Morrisville	8.3	Meeting	201 01-
9	2016-01-10 12:17:00	2016-01-10 12:44:00	Business	Jamaica	New York	16.5	Customer Visit	201 01-

```
In [25]: df['time']=pd.DatetimeIndex(df['START_DATE']).hour
```

```
In [26]: df.head(10)
```

Out[26]:

	START_DATE	END_DATE	CATEGORY	START	STOP	MILES	PURPOSE	Da
--	------------	----------	----------	-------	------	-------	---------	----

0	2016-01-01 21:11:00	2016-01-01 21:17:00	Business	Fort Pierce	Fort Pierce	5.1	Meal/Entertain	201 01-
1	2016-01-02 01:25:00	2016-01-02 01:37:00	Business	Fort Pierce	Fort Pierce	5.0	Not.	201 01-
2	2016-01-02 20:25:00	2016-01-02 20:38:00	Business	Fort Pierce	Fort Pierce	4.8	Errand/Supplies	201 01-
3	2016-01-05 17:31:00	2016-01-05 17:45:00	Business	Fort Pierce	Fort Pierce	4.7	Meeting	201 01-
4	2016-01-06 14:42:00	2016-01-06 15:49:00	Business	Fort Pierce	West Palm Beach	63.7	Customer Visit	201 01-
5	2016-01-06 17:15:00	2016-01-06 17:19:00	Business	West Palm Beach	West Palm Beach	4.3	Meal/Entertain	201 01-
6	2016-01-06 17:30:00	2016-01-06 17:35:00	Business	West Palm Beach	Palm Beach	7.1	Meeting	201 01-
7	2016-01-07 13:27:00	2016-01-07 13:33:00	Business	Cary	Cary	0.8	Meeting	201 01-
8	2016-01-10 08:05:00	2016-01-10 08:25:00	Business	Cary	Morrisville	8.3	Meeting	201 01-
9	2016-01-10 12:17:00	2016-01-10 12:44:00	Business	Jamaica	New York	16.5	Customer Visit	201 01-

In [27]:

```
df['day-night'] = pd.cut(x=df['time'],bins=[0,10,15,19,24],labels=['Morning','Af
```

In [28]:

```
df.head(10)
```

Out[28]:

	START_DATE	END_DATE	CATEGORY	START	STOP	MILES	PURPOSE	Da
0	2016-01-01 21:11:00	2016-01-01 21:17:00	Business	Fort Pierce	Fort Pierce	5.1	Meal/Entertain	201 01-
1	2016-01-02 01:25:00	2016-01-02 01:37:00	Business	Fort Pierce	Fort Pierce	5.0	Not.	201 01-
2	2016-01-02 20:25:00	2016-01-02 20:38:00	Business	Fort Pierce	Fort Pierce	4.8	Errand/Supplies	201 01-
3	2016-01-05 17:31:00	2016-01-05 17:45:00	Business	Fort Pierce	Fort Pierce	4.7	Meeting	201 01-
4	2016-01-06 14:42:00	2016-01-06 15:49:00	Business	Fort Pierce	West Palm Beach	63.7	Customer Visit	201 01-
5	2016-01-06 17:15:00	2016-01-06 17:19:00	Business	West Palm Beach	West Palm Beach	4.3	Meal/Entertain	201 01-
6	2016-01-06 17:30:00	2016-01-06 17:35:00	Business	West Palm Beach	Palm Beach	7.1	Meeting	201 01-
7	2016-01-07 13:27:00	2016-01-07 13:33:00	Business	Cary	Cary	0.8	Meeting	201 01-
8	2016-01-10 08:05:00	2016-01-10 08:25:00	Business	Cary	Morrisville	8.3	Meeting	201 01-
9	2016-01-10 12:17:00	2016-01-10 12:44:00	Business	Jamaica	New York	16.5	Customer Visit	201 01-

In [29]: df.dropna(inplace=True)

In [30]: df

Out[30]:

	START_DATE	END_DATE	CATEGORY	START	STOP	MILES	PURPO
0	2016-01-01 21:11:00	2016-01-01 21:17:00	Business	Fort Pierce	Fort Pierce	5.1	Meal/Entert
1	2016-01-02 01:25:00	2016-01-02 01:37:00	Business	Fort Pierce	Fort Pierce	5.0	N
2	2016-01-02 20:25:00	2016-01-02 20:38:00	Business	Fort Pierce	Fort Pierce	4.8	Errand/Suppl
3	2016-01-05 17:31:00	2016-01-05 17:45:00	Business	Fort Pierce	Fort Pierce	4.7	Meeti
4	2016-01-06 14:42:00	2016-01-06 15:49:00	Business	Fort Pierce	West Palm Beach	63.7	Customer Vi
...	
1151	2016-12-12 20:48:00	2016-12-12 20:57:00	Business	Kar?chi	Unknown Location	3.9	Temporary S
1152	2016-12-12 20:48:00	2016-12-12 20:57:00	Business	Unknown Location	Unknown Location	16.2	Meeti
1153	2016-12-12 20:48:00	2016-12-12 20:57:00	Business	Katunayake	Gampaha	6.4	Temporary S
1154	2016-12-12 20:48:00	2016-12-12 20:57:00	Business	Gampaha	Ilukwatta	48.2	Temporary S
1155	2016-12-12 20:48:00	2016-12-12 20:57:00	Business	Gampaha	Ilukwatta	12204.7	N

1156 rows × 10 columns



```
In [31]: (c,r)=df.shape
print("columns=",c)
print("row=",r)

columns= 1156
row= 10
```

Data visualization

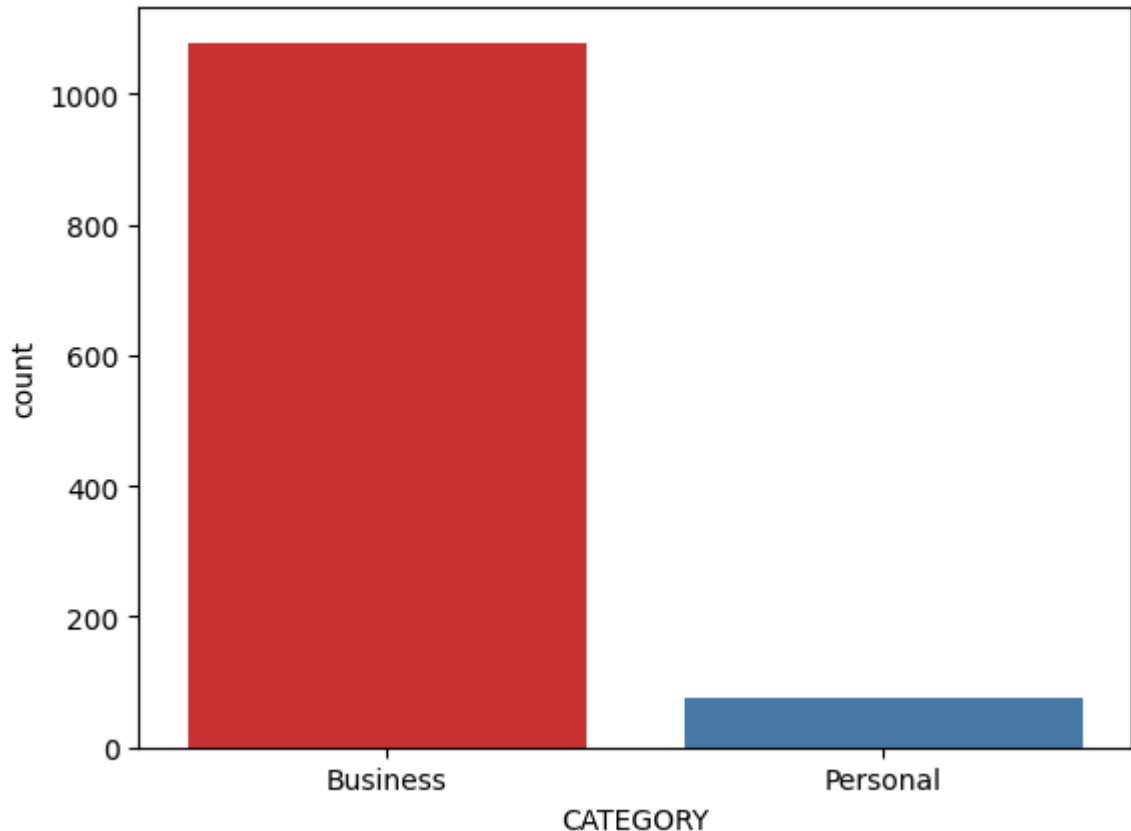
```
In [32]: sns.countplot(x='CATEGORY', data=df,palette="Set1")
```

```
C:\Users\hp\AppData\Local\Temp\ipykernel_11832\22903052.py:1: FutureWarning:
```

```
Passing `palette` without assigning `hue` is deprecated and will be removed in v
0.14.0. Assign the `x` variable to `hue` and set `legend=False` for the same effect.
```

```
sns.countplot(x='CATEGORY', data=df,palette="Set1")
```

```
Out[32]: <Axes: xlabel='CATEGORY', ylabel='count'>
```



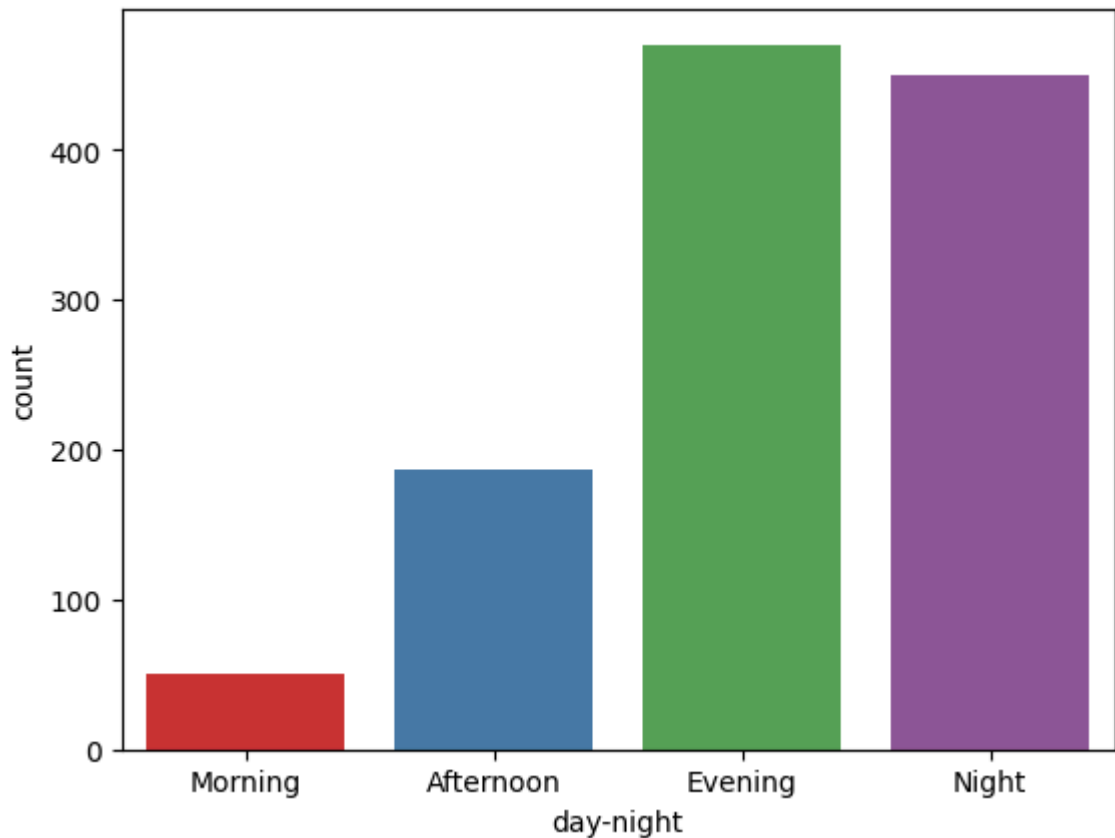
```
In [33]: sns.countplot(x='day-night', data=df,palette="Set1")
```

```
C:\Users\hp\AppData\Local\Temp\ipykernel_11832\4094278088.py:1: FutureWarning:
```

```
Passing `palette` without assigning `hue` is deprecated and will be removed in v
0.14.0. Assign the `x` variable to `hue` and set `legend=False` for the same effect.
```

```
sns.countplot(x='day-night', data=df,palette="Set1")
```

```
Out[33]: <Axes: xlabel='day-night', ylabel='count'>
```



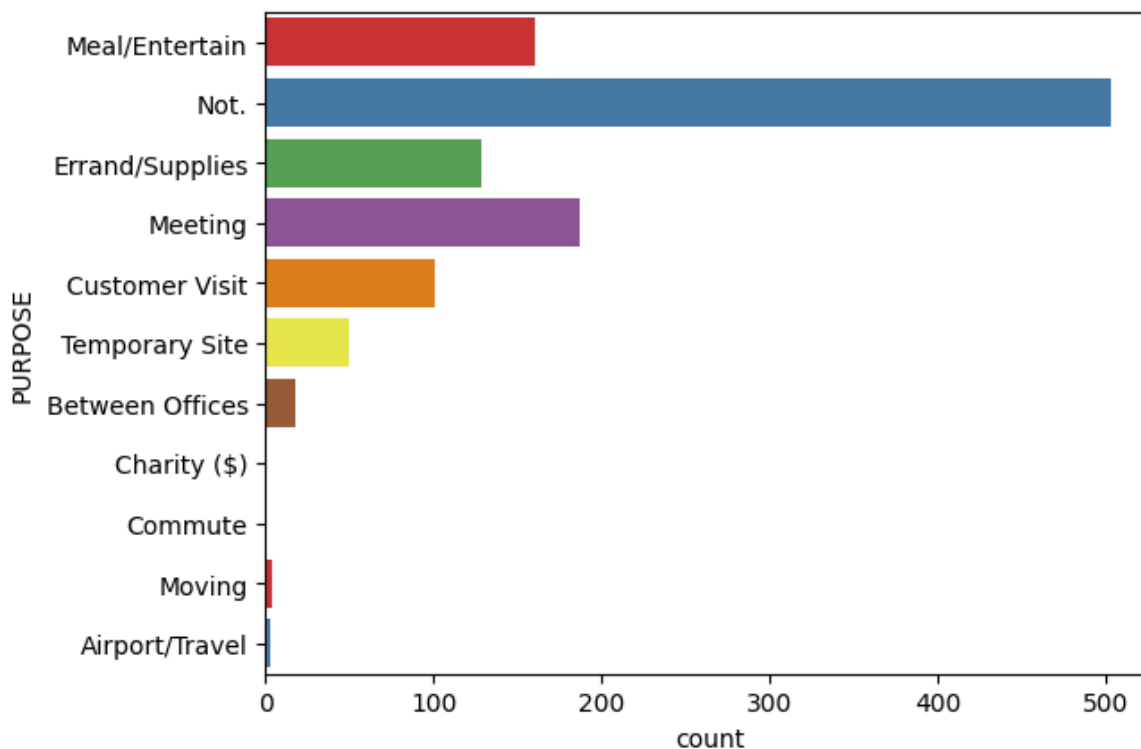
```
In [34]: sns.countplot(y='PURPOSE', data=df,palette="Set1")
```

C:\Users\hp\AppData\Local\Temp\ipykernel_11832\895393509.py:1: FutureWarning:

Passing `palette` without assigning `hue` is deprecated and will be removed in v 0.14.0. Assign the `y` variable to `hue` and set `legend=False` for the same effect.

```
sns.countplot(y='PURPOSE', data=df,palette="Set1")
```

```
Out[34]: <Axes: xlabel='count', ylabel='PURPOSE'>
```



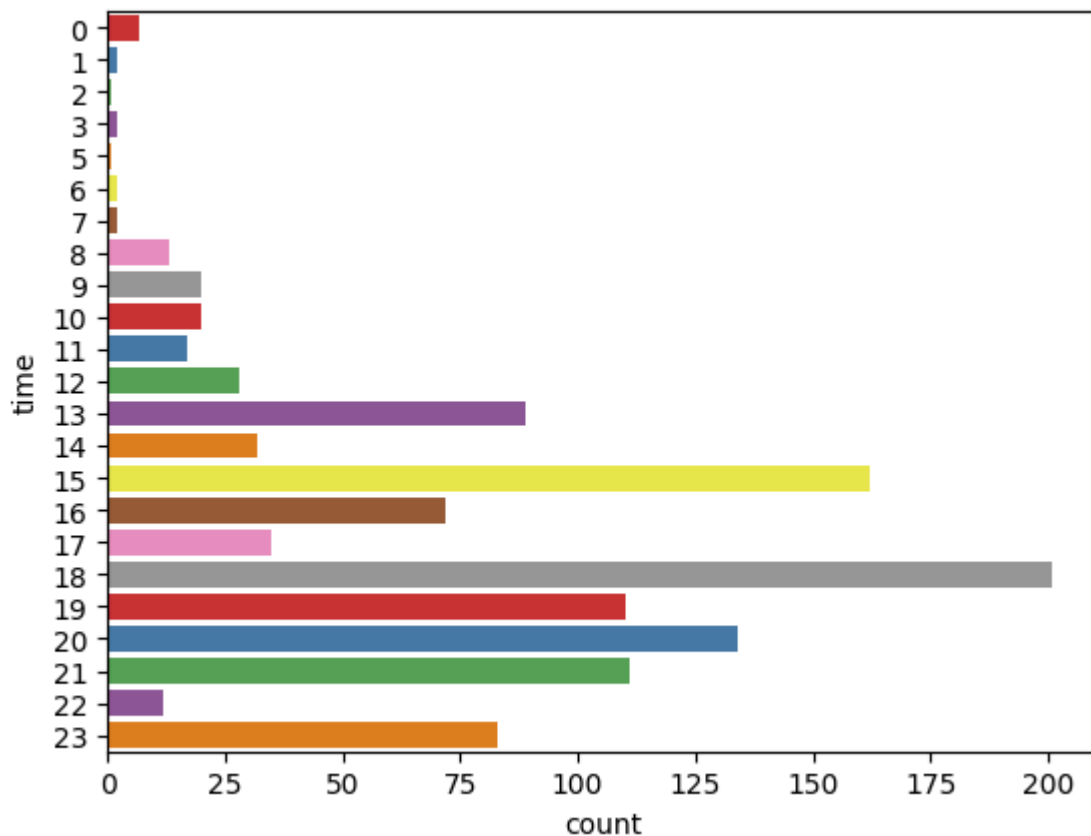
```
In [35]: sns.countplot(y='time', data=df,palette="Set1")
```

C:\Users\hp\AppData\Local\Temp\ipykernel_11832\592257224.py:1: FutureWarning:

Passing `palette` without assigning `hue` is deprecated and will be removed in v0.14.0. Assign the `y` variable to `hue` and set `legend=False` for the same effect.

```
sns.countplot(y='time', data=df,palette="Set1")
```

```
Out[35]: <Axes: xlabel='count', ylabel='time'>
```



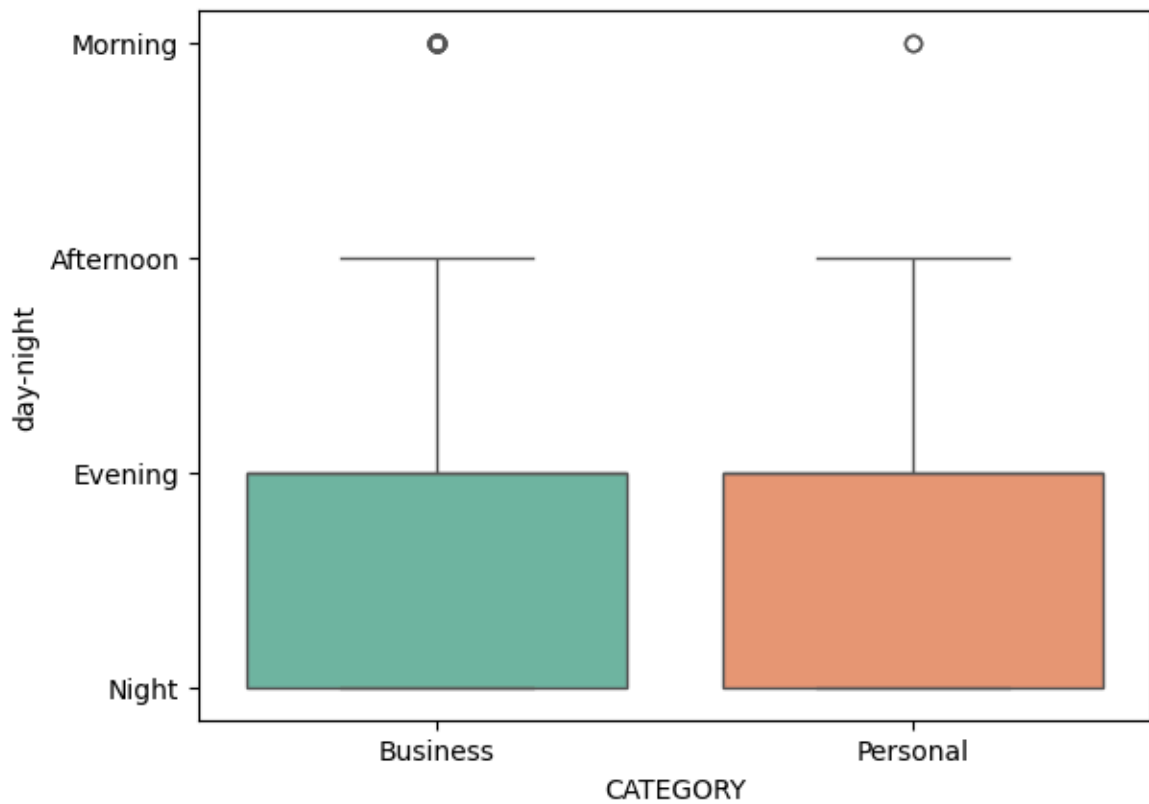
```
In [36]: sns.boxplot(x='CATEGORY',y='day-night',data=df,palette="Set2")
```

C:\Users\hp\AppData\Local\Temp\ipykernel_11832\2202060117.py:1: FutureWarning:

Passing `palette` without assigning `hue` is deprecated and will be removed in v 0.14.0. Assign the `x` variable to `hue` and set `legend=False` for the same effect.

```
sns.boxplot(x='CATEGORY',y='day-night',data=df,palette="Set2")
```

```
Out[36]: <Axes: xlabel='CATEGORY', ylabel='day-night'>
```

```
In [37]: df['Month'] = pd.to_datetime(df['START_DATE']).dt.month_name()
```

```
In [38]: df['Day'] = pd.to_datetime(df['START_DATE']).dt.day_name()
```

```
In [39]: df
```

Out[39]:

	START_DATE	END_DATE	CATEGORY	START	STOP	MILES	PURPO
0	2016-01-01 21:11:00	2016-01-01 21:17:00	Business	Fort Pierce	Fort Pierce	5.1	Meal/Enterta
1	2016-01-02 01:25:00	2016-01-02 01:37:00	Business	Fort Pierce	Fort Pierce	5.0	N
2	2016-01-02 20:25:00	2016-01-02 20:38:00	Business	Fort Pierce	Fort Pierce	4.8	Errand/Suppl
3	2016-01-05 17:31:00	2016-01-05 17:45:00	Business	Fort Pierce	Fort Pierce	4.7	Meeti
4	2016-01-06 14:42:00	2016-01-06 15:49:00	Business	Fort Pierce	West Palm Beach	63.7	Customer Vi
...	
1151	2016-12-12 20:48:00	2016-12-12 20:57:00	Business	Kar?chi	Unknown Location	3.9	Temporary S
1152	2016-12-12 20:48:00	2016-12-12 20:57:00	Business	Unknown Location	Unknown Location	16.2	Meeti
1153	2016-12-12 20:48:00	2016-12-12 20:57:00	Business	Katunayake	Gampaha	6.4	Temporary S
1154	2016-12-12 20:48:00	2016-12-12 20:57:00	Business	Gampaha	Ilukwatta	48.2	Temporary S
1155	2016-12-12 20:48:00	2016-12-12 20:57:00	Business	Gampaha	Ilukwatta	12204.7	N

1156 rows × 12 columns



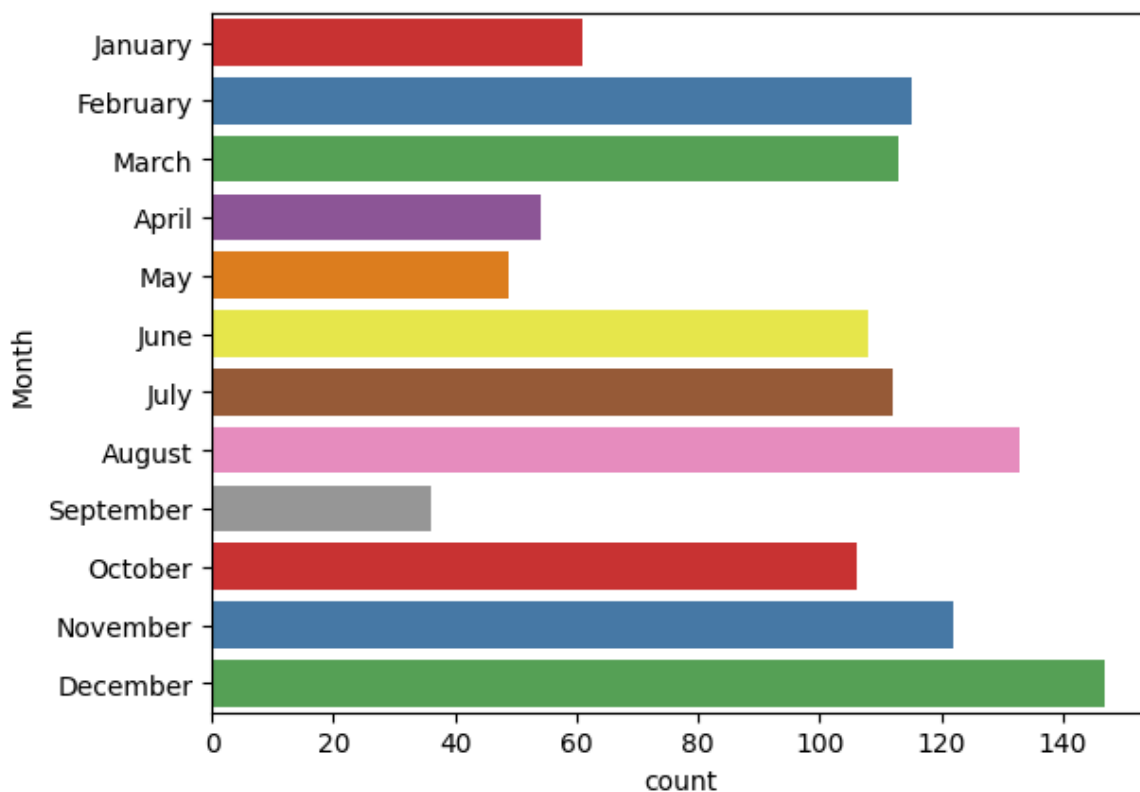
```
In [40]: sns.countplot(y='Month', data=df,palette="Set1")
```

C:\Users\hp\AppData\Local\Temp\ipykernel_11832\3486702215.py:1: FutureWarning:

Passing `palette` without assigning `hue` is deprecated and will be removed in v
0.14.0. Assign the `y` variable to `hue` and set `legend=False` for the same effe
ct.

sns.countplot(y='Month', data=df,palette="Set1")

Out[40]: <Axes: xlabel='count', ylabel='Month'>



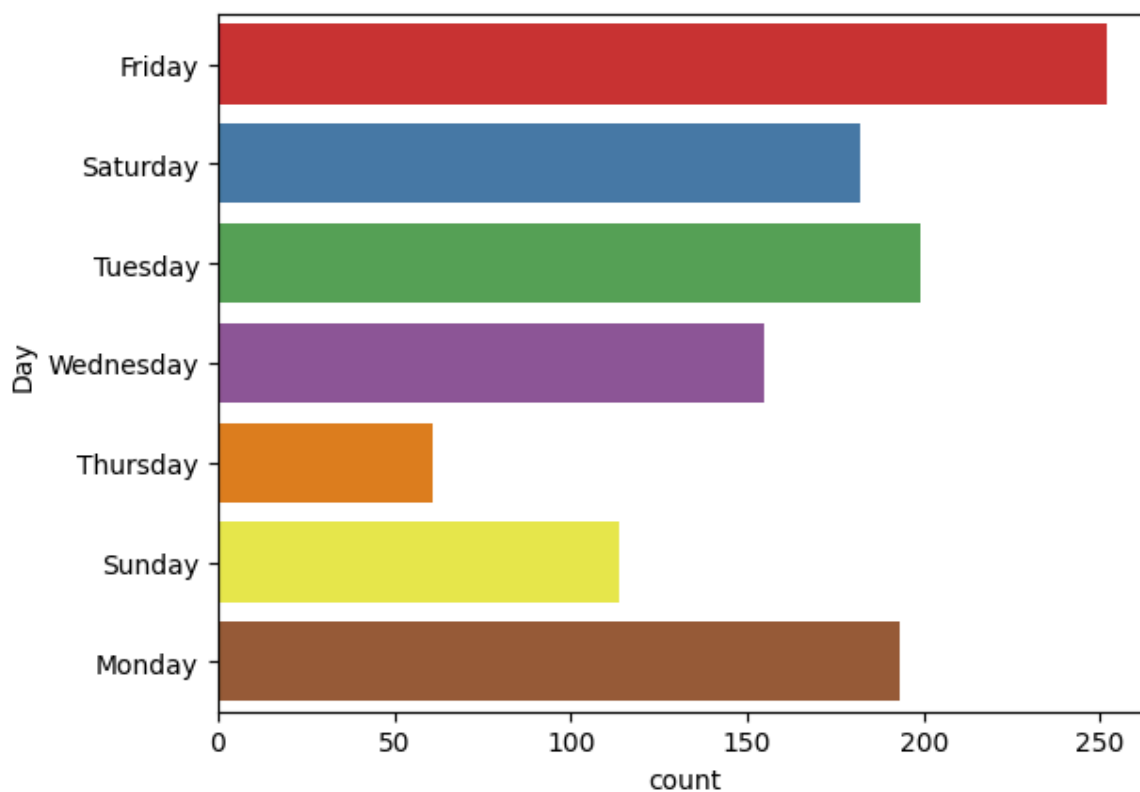
```
In [41]: sns.countplot(y='Day', data=df,palette="Set1")
```

C:\Users\hp\AppData\Local\Temp\ipykernel_11832\3198250369.py:1: FutureWarning:

Passing `palette` without assigning `hue` is deprecated and will be removed in v0.14.0. Assign the `y` variable to `hue` and set `legend=False` for the same effect.

```
sns.countplot(y='Day', data=df,palette="Set1")
```

```
Out[41]: <Axes: xlabel='count', ylabel='Day'>
```



```
In [59]: sns.distplot(df[df['MILES']<99]['MILES'])
```

C:\Users\hp\AppData\Local\Temp\ipykernel_11832\1534027895.py:1: UserWarning:

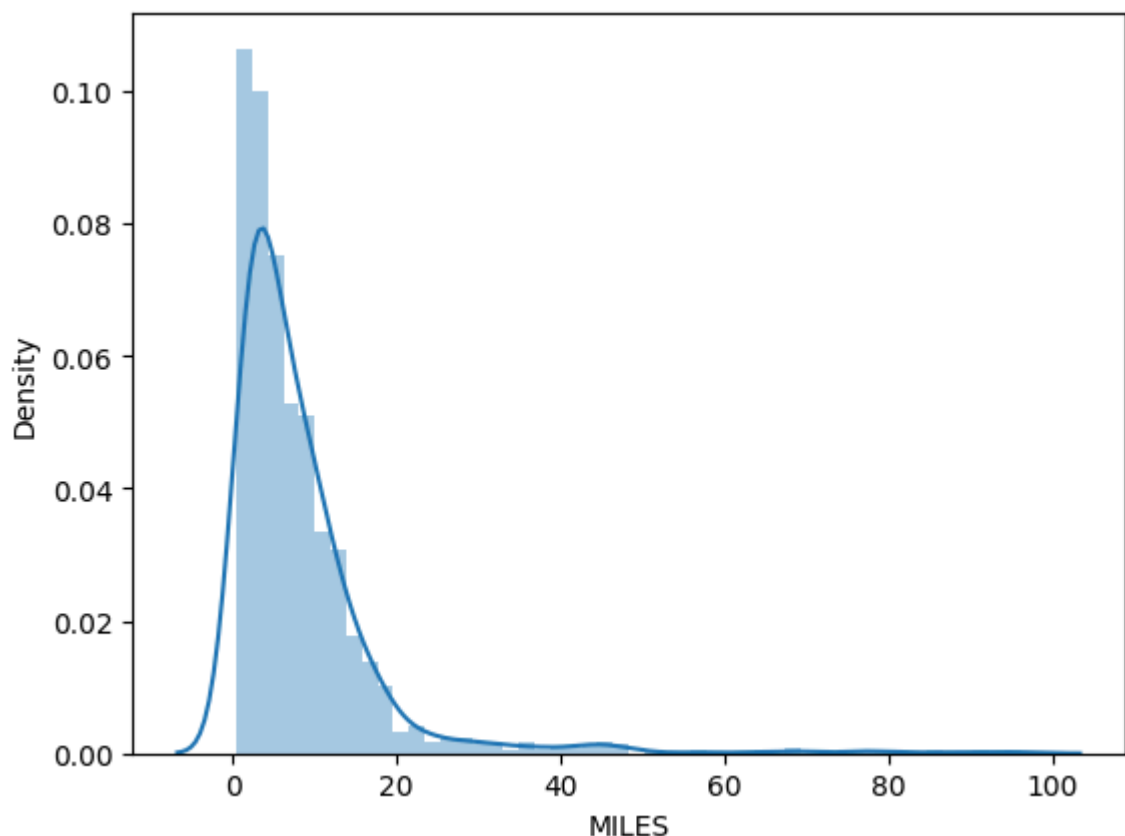
`distplot` is a deprecated function and will be removed in seaborn v0.14.0.

Please adapt your code to use either `displot` (a figure-level function with similar flexibility) or `histplot` (an axes-level function for histograms).

For a guide to updating your code to use the new functions, please see <https://gist.github.com/mwaskom/de44147ed2974457ad6372750bbe5751>

```
sns.distplot(df[df['MILES']<99]['MILES'])
```

```
Out[59]: <Axes: xlabel='MILES', ylabel='Density'>
```



```
In [60]: sns.distplot(df[df['MILES']<40]['MILES'])
```

C:\Users\hp\AppData\Local\Temp\ipykernel_11832\1171915261.py:1: UserWarning:

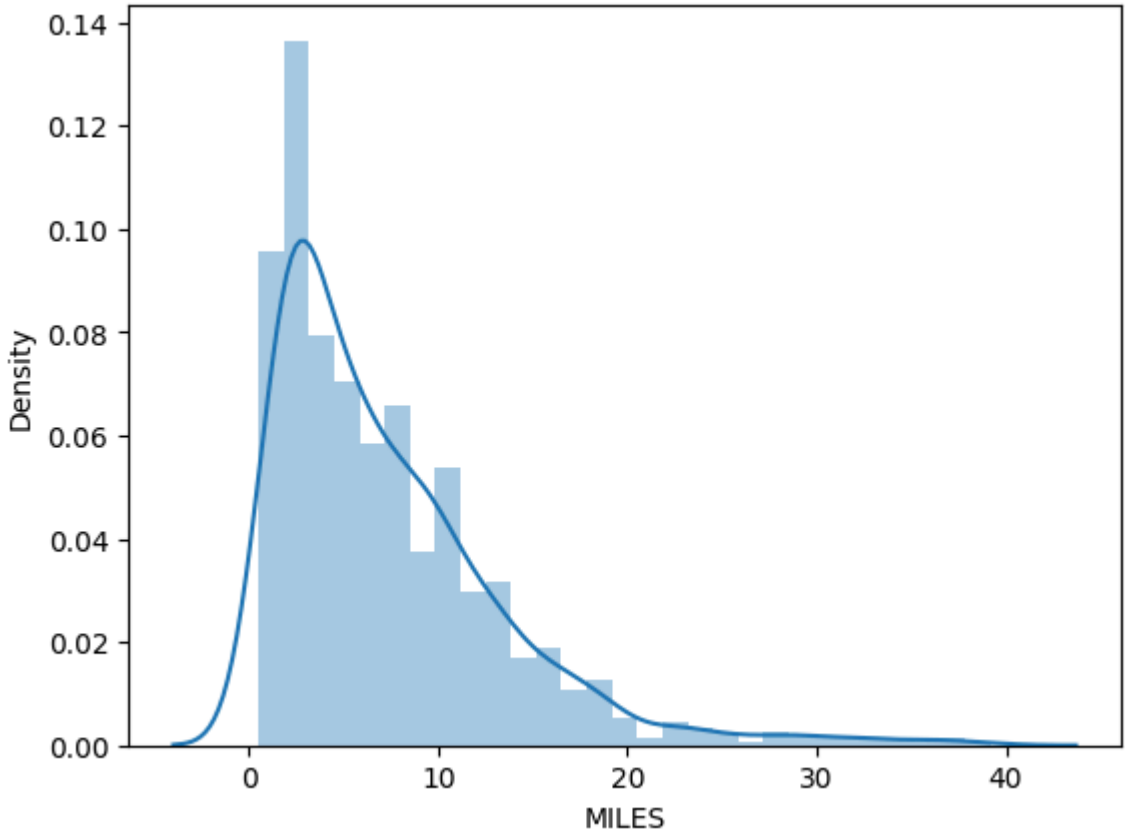
`distplot` is a deprecated function and will be removed in seaborn v0.14.0.

Please adapt your code to use either `displot` (a figure-level function with similar flexibility) or `histplot` (an axes-level function for histograms).

For a guide to updating your code to use the new functions, please see <https://gist.github.com/mwaskom/de44147ed2974457ad6372750bbe5751>

```
sns.distplot(df[df['MILES']<40]['MILES'])
```

```
Out[60]: <Axes: xlabel='MILES', ylabel='Density'>
```



```
In [ ]:
In [ ]:
In [ ]:
In [ ]:
In [ ]:
In [ ]:
```