In [1]:
```
import pandas as pd
import seaborn as sns
data=pd.read_csv('cars_data.csv')
cars_data=pd.DataFrame(data)
print(cars_data)
```

```
         Make        Model    Nickname Car Gender Buyer Gender  Buyer Age  \
0      Suzuki       Vitara  Philippine     Female       Female         51
1       Honda        S2000      Henrik       Male         Male         30
2         BMW           Z4      Lebbie       Male       Female         54
3      Toyota       Tacoma    Jefferey     Female         Male         68
4        Ford      Festiva     Glendon     Female         Male         70
...       ...          ...         ...        ...          ...        ...
9995    Mazda      Tribute      Cooper       Male         Male         44
9996      GMC  Sierra 2500         Dud       Male         Male         40
9997  Mercury      Mariner     Chariot       Male         Male         37
9998   Daewoo      Leganza       Dynah     Female       Female         21
9999   Toyota      Sequoia    Zedekiah     Female         Male         21

           Buzzword      Country             City  Dealer Latitude  \
0     User-friendly      Belgium        Antwerpen        51.247239
1         analyzing        China            Jinhu        33.025433
2          software        China             Gemo        30.916207
3        monitoring     Portugal  Queluz de Baixo        38.745168
4          Sharable       Latvia         Jaunpils        56.729980
...             ...          ...              ...              ...
9995       hardware     Pakistan  Chishtiān Mandi        29.919386
9996       Enhanced   Costa Rica          Ángeles        10.075000
9997     monitoring       Poland        Dąbrowice        52.311923
9998       cohesive  Philippines         Villasis        15.901640
9999      analyzing  Philippines            Basud        14.048167

      Dealer Longitude    Color  New Car Purchase Date  Sale Price  Discount  \
0             4.440346   Yellow    False    19/07/2009    54806.14    0.2467
1           119.020584  Crimson    False    26/10/2015    51826.30    0.3147
2           121.677640    Khaki    False    28/03/2010    82929.14    0.5414
3            -9.267087     Puce    False    07/05/2008    56928.66    0.0850
4            23.016588   Yellow    False    01/06/2008    77201.26    0.1642
...                ...      ...      ...           ...         ...       ...
9995         73.074787     Pink    False    05/01/2020    58580.65    0.1611
9996        -84.241523     Puce    False    28/12/2005    75229.74    0.2691
9997         19.084965     Blue    False    08/03/2013    34755.44    0.2493
9998        120.587828     Teal     True    21/02/2008    98725.42    0.4654
9999        122.955697     Pink    False    16/12/2017    96769.78    0.5446

      Resell Price  5-yr Depreciation  Top Speed  0-60 Time
0         33858.32               0.13      200.9       11.5
1          2989.28               0.02      158.5        8.8
2         35049.16               0.24      149.5       14.4
3          8236.15               0.20      153.3       11.5
4         32765.76               0.18      122.0       14.9
...            ...                ...        ...        ...
9995      42640.82               0.14      245.8        8.0
9996      21115.58               0.11      147.4       12.3
9997       2731.25               0.12      198.1       11.8
9998      18718.58               0.04      206.7       12.2
9999       4545.95               0.07      242.1        3.2

[10000 rows x 20 columns]
```

In [ ]:
```
#null values
```

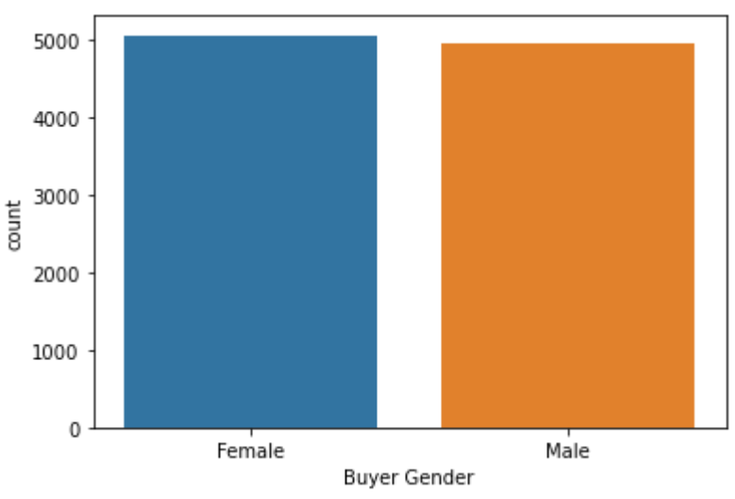
In [2]:
```
cars_data.isnull().values.any()
```

Out[2]:
```
False
```

In [ ]:
```
#bar graph
```

In [5]:
```
import seaborn as sns
import warnings
warnings.filterwarnings("ignore")
sns.countplot(cars_data['Buyer Gender'])
```

Out[5]:
```
<AxesSubplot:xlabel='Buyer Gender', ylabel='count'>
```



In [ ]:
```
#top 5 cars
```

In [12]:
```
import pandas as pd
data=pd.read_csv('cars_data.csv')
cars_data=pd.DataFrame(data)

sale_price=cars_data['Sale Price']
sale_price_sorted=sale_price.sort_values(ascending=False)
top_index=sale_price_sorted[0:5].index
pd.DataFrame({'Make':list(cars_data['Make'][top_index]),
              'Model':list(cars_data['Model'][top_index]),
              'Sale Price':list(cars_data['Sale Price'][top_index])},index=[1,2,3,4,5])
```

Out[12]:

	Make	Model	Sale Price
1	Volkswagen	Jetta III	99997.65
2	Audi	A6	99991.91
3	Lexus	LX	99983.38
4	Mazda	MX-6	99978.17
5	Lexus	ES	99973.44

In [ ]:
```
#least 5 cars
```

In [15]:
```
sale_price=cars_data['Resell Price']
sale_price_sorted=sale_price.sort_values(ascending=True)
least_index=sale_price_sorted[0:5].index
pd.DataFrame({'Make':list(cars_data['Make'][least_index]),
              'Model':list(cars_data['Model'][least_index]),
              'Resell Price':list(cars_data['Sale Price'][least_index])},index=[1,2,3,4,5])
```

Out[15]:

	Make	Model	Resell Price
1	Chevrolet	1500	49909.44
2	GMC	Savana 1500	80084.82
3	Jaguar	XF	24124.99
4	Mitsubishi	3000GT	88195.95
5	Infiniti	G37	77791.65

In [ ]:
```

```