```
In [1]: import pandas as pd
          import seaborn as sns
          import matplotlib.pyplot as plt
In [2]: fashion=pd.read_csv('FashionDataset.csv')
In [3]: fashion
Out[3]:
                   Unnamed:
                              BrandName
                                                  Deatils
                                                                               Sizes
                                                                                         MRP SellPrice Discou
                                              solid cotton
                                              blend collar
                                                          Size:Large,Medium,Small,X-
                           0
                                       life
                                                                                     Rs\n1699
                                                                                                     849
                                                                                                            50% (
                                            neck womens
                                                                       Large, X-Small
                                                a-line d...
                                                polyester
                                                peter pan
                                                   collar
                                                                     Size:34,36,38,40 Rs\n3499
                                                                                                    2449
                                                                                                            30% €
                                                 womens
                                                 blouson
                                                    solid
                                                polvester
                                                               Size:Large,X-Large,XX-
                                               blend wide
                                                                                     Rs\n1199
                                                                                                            50% (
                                     fratini
                                                                              Large
                                            neck womens
                                                 regular...
                                                  stripes
                                                polyester
                                                          Size:Large,Medium,Small,X-
                                               sweetheart
                                zink london
                                                                                     Rs\n2299
                                                                                                    1379
                                                                                                            40%
                                                                              Large
                                            neck womens
                                                  dress...
                                                regular fit
                                            regular length
                                       life
                                                   denim
                                                               Size:26,28,30,32,34,36 Rs\n1699
                                                                                                     849
                                                                                                            50%
                                                 womens
                                                 jeans ...
                                             crystal stylish
           30753
                                 swarovski
                                                                                Nan
                                                                                          Nan
                                                                                                    8950
                                                                                                               Νŧ
                                                 rodhium
                                                 earrings
           30754
                          22
                                      Nan
                                                    Nan
                                                                                Nan
                                                                                          Nan
                                                                                                     Nan
                                                                                                               Na
                                               ethnic gold
           30755
                          23
                                    jewelz
                                            plated jhumki
                                                                                Nan Rs\n1839
                                                                                                     643
                                                                                                            65%
                                                 earrings
                                             womens gold
                                            plated double
           30756
                          24
                                    estelle
                                                                                                    2799
                                                                                                               Na
                                                                                Nan
                                                                                          Nan
                                                line fancy
                                              white and...
                                             womens gold
                                             plated bridge
           30757
                          25
                                                                                Nan
                                                                                                    1899
                                                                                                               Νŧ
                                                                                          Nan
                                                 designer
                                            mangalsutra...
          30758 rows × 8 columns fashion.describe()
In [5]:
Out[5]:
In [4]: fashion. Unraryed: 0
           <cli>counts 30758,000000 core.frame.DataFrame'>
          Ranga Index 2.500758 entries, 0 to 30757
          Data columns (total 8 columns):

# stdColumn.500122 Non-Null Count
           0 Unnamed: 0 30758 non-null int64
           1<sup>25</sup>%BrandName<sup>0000</sup> 30758 non-null
                                                    object
            2<sub>50%</sub>Deatils<sub>500000</sub> 30758 non-null
                                                    object
           3 Sizes 30758 non-null 475%MRP 19.000000 30758 non-null
                                                    object
            5<sub>max</sub>SellPg.066000 30758 non-null
                                                    object
                Discount
                                30758 non-null
                                                    object
                                30758 non-null object
In [6]: daypesn.dntβ((d))panbdect((7)xis=1 ,inplace = True)
          memory usage: 1.9+ MB
In [7]:
          fashion=fashion.rename(columns={'BrandName':'Brand'})
          fashion=fashion.rename(columns={'Deatils':'Details'})
In [8]: fashion.isna().any()
```

```
30758 rows × 8 columns fashion.describe()
 In [5]:
 Out[5]:
 In [4]:
           fashion . Unrfamed: 0
            counts <sup>30758,000000</sup>ce.frame.DataFrame'>
           R_{\mbox{\scriptsize MBM}} Index 2.5007508 entries, 0 to 30757
           Data columns (total 8 columns): # stdColumn,500122 Non-Null Count
            min----0.000000 ------
0 Unnamed: 0 30758 non-null
1<sup>25</sup>%Brandଲିକାଳି<sup>000</sup> 30758 non-null
                                                   int64
                                                   object
            2<sub>50%</sub>Deatils<sub>500000</sub> 30758 non-null
3 Sizes 30758 non-null
                                                   object
            475%MRP 19.000000 30758 non-null
                                                   obiect
             5<sub>max</sub>SellB5.060000 30758 non-null
6 Discount 30758 non-null
                                                   object
                                30758 non-null
                                                   object
             7 Category
                                30758 non-null object
 In [6]: daypeon.dnop((1)panbdeco((7àxis=1 ,inplace = True)
            memory usage: 1.9+ MB
 In [7]:
           fashion=fashion.rename(columns={'BrandName':'Brand'})
           fashion=fashion.rename(columns={'Deatils':'Details'})
 In [8]: |fashion.isna().any()
 Out[8]: Brand
                           False
           Details
                           False
           Sizes
                           False
           MRP
                           False
           SellPrice
                           False
           Discount
                           False
           Category
                           False
           dtype: bool
 In [9]: fashion.replace('Nan',inplace = True)
In [10]: fashion['MRP']=fashion['MRP'].str.strip('Rs\n').astype(int)
           fashion['MRP']
Out[10]: 0
                      1699
           1
                      3499
           2
                      1199
                      2299
           3
           4
                      1699
           30753
                       449
           30754
                       449
           30755
                      1839
           30756
                      1839
           30757
                      1839
           Name: MRP, Length: 30758, dtype: int32
In [11]: fashion.dtypes
Out[11]: Brand
                           object
                           object
           Petaila
In [15]:
                           object
Out[15]: MRP
                            int32
           SellPriceBrandobjectDetails
                                                              Sizes MRP SellPrice Discount
                                                                                                   Category
                           object
object
object
neck viscose
           Discount
           Category
                                           Size:Large,Medium,Small,X-
                                                                                               Westernwear-
           dtyp₂: objeq‡e
                                  womens
                                                                                649
                                                                                           50
                                                       Large,X-Small
                                                                                                    Women
                               regular top -
In [12]: fashion['SellPrice']=fashion['SellPrice'].astype(int)
regular fit
                                   regula
womens
                                  jeans
In [14]: fashion=fashion.loc[fashion.duplicated()] printed
                              viscose wide
                                           Size:Large,Medium,Small,X-
                                    neck
                                                                                               Westernwear-
               48
                         life
                                                                     1299
                                                                                649
                                                                                           50
                                                       Large,X-Small
                                                                                                     Women
                                  womens
                                   regular
                                  dress...
                                   printed
                                  viscose
                                           Size:Large,Medium,Small,X-
                                                                                               Westernwear-
               74
                              regular neck
                                                                      999
                                                                                499
                                              Large, X-Small, XX-Large
                                                                                                     Women
                               womens top
                                   - white
                                     solid
                                 polyester
                                           Size:Large,Medium,Small,X-
                                                                                               Westernwear-
              100
                             regular neck
                                                                     1299
                                                                                649
                                                                                           50
```

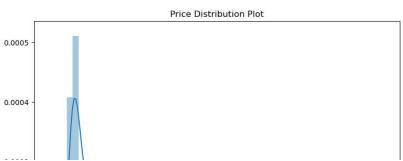
15]:	Petalor	) Ot	oject					
161.	Sizes		ject					
[15]:	MRP		int32	Sizos	MDD	CallDring	Discount	Catagon
	Discour	nt of	oject <b>Details</b>	Sizes	MRP	SellPrice	Discount	Category
	Categor	ry of	solid wide					
		objeqite	womens	Size:Large,Medium,Small,X- Large,X-Small		649	50	
			regular top - blue	Large, X-Offian				VVOITIEI
12]:	fashior	ı['SellPr	rice']=fash	nion[' <mark>SellPrice'].ast</mark> y	pe(int	)		
			regular fit regular					
13]:	fash <b>2i</b> 4or	n[ˈDi⊴iteou	untetn g∐h≕ofeansinh.i	ion[' <mark>D\$ize(26),28</mark> ,30, <b>82</b> ,34,36	rip2(9 <mark>5%</mark>	off'9999a	stype(50n1	t Westernwear
			womens jeans					vvoiriei
14]:	fashior	n=fashior	n.loc[fashi	ion.duplicated()]				
			printed viscose wide					Westernwear Womer  Westernwear Womer  Westernwear Womer  Jewellery Womer  Jewellery Womer  Jewellery Womer  Jewellery Womer
	48	life	neck	Size:Large,Medium,Small,X-		649	50	
			womens regular	Large,X-Small	1			vvomei
			dress					
			printed					
			viscose	Size:Large,Medium,Small,X-		400		Westernwear
	74	stop	regular neck womens top	Large,X-Small,XX-Large		499	50	
			- white					
			solid					
			polyester	Size:Large,Medium,Small,X-				Westernwear
	100	stop	regular neck womens top	Large,XX-Large		649	50	
			- sage					
	•••				•••			
	30702	skagen	elin rose gold bracelet	Size:Error Size	599	5795	50	
		J	- skj0851791					vvomer
			womens					
			stone					
	30716	ayesha	studded drop	Size:Error Size	698	349	50	
			earrings -					
			multi					
			vintage gl					
	30728	fossil	two tone bracelet -	Size:Error Size	2399	4795	5	
			jf02311040					Wollie
			cotton					
	30735	iewelz	multicolour	Size:Error Size	999	349	65	Jewellery
	30733	jeweiz	girls hair bands	Size.Litor Size	333	343	03	Womer
			crystal stylish					
	30754	swarovski	womens	Size:Error Size	449	8950	15	
			rodhium earrings					***************************************
			carrings					
	1958 rov	ws x 7 col	umns					
	1958 rov	ws × 7 col	umns					
161.				.str.sn]it('-' n-1 ov	nand-T	rue)		
16]:				.str.split('-',n=1,ex	pand=T	rue)		
_		fashion[ˈ		.str.split('-',n=1,ex	pand=T	rue)		
19]:	split=f	Fashion[ˈ	'Category'				tegory'.	split[0])
_	split=f	fashion[ˈ n n.insert(	'Category']	olumns.get_loc('Discou	nt')+1	,'Sub Ca		/
19]:	split=f	Fashion[ˈ	'Category'	olumns.get_loc('Discou	nt')+1			Sub
19]: <del>[</del> 3]:	split=f fashior fashior	Fashion[ˈ n n.insert( Brand	'Category' ] (fashion.co	olumns.get_loc('Discou	nt')+1 MRP S	, 'Sub Ca SellPrice D	iscount	Sub Category
.9]: - <mark>3]:</mark>	split=f fashior fashior	Fashion[ˈ n n.insert( Brand	'Category' (fashion.co Details (fashiសាeco	olumns.get_loc('Discou Sizes olumns.get_loc('Sub Ca	nt')+1 MRP S	, 'Sub Ca SellPrice D	iscount	Sub Category (
19]: [3]:	split=f fashior fashior	Fashion[ˈ n n.insert( Brand	(fashion.cc  Details  (fashionlecc  neck viscose	olumns.get_loc('Discou Sizes olumns.get_loc('Sub Ca Size:Large,Medium,Small,X-	nt')+1 MRP S	, 'Sub Ca SellPrice D	in Catego	Sub Category (
9]: <mark>3]:</mark>	split=f fashior fashior	fashion[ n.insert( Brand n.insert(	'Category' (fashion.co Details (fashiសាeco	plumns.get_loc('Discou Sizes plumns.get_loc('Sub Ca	nt')+1 MRP S	,'Sub Ca iellPrice D	in Catego	Sub Category (
.9]: . <mark>3]:</mark>	split=f fashior fashior	fashion[ n.insert( Brand n.insert(	Category Cat	olumns.get_loc('Discou Sizes olumns.get_loc('Sub Ca Size:Large,Medium,Small,X-	nt')+1 MRP S	,'Sub Ca iellPrice D	in Catego	Sub Category ( ory',split
.9]: . <mark>3]:</mark>	split=f fashior fashior	fashion[ n.insert( Brand n.insert(	(fashion.cc  Details  (fashi-Wiecc  neck viscose womens regular top	olumns.get_loc('Discou Sizes olumns.get_loc('Sub Ca Size:Large,Medium,Small,X-	nt')+1 MRP S	,'Sub Ca iellPrice D	in Catego	Sub Category ( ory',split
19]: <del>[</del> 3]:	split=f fashior fashior	fashion[ n.insert( Brand n.insert(	(fashion.cc  Details  (fashionlecc  neck viscose womens regular top - blue regular fit regular	olumns.get_loc('Discou Sizes olumns.get_loc('Sub Ca Size:Large,Medium,Small,X-	nt')+1 MRP S	,'Sub Ca iellPrice D	in Catego	Sub Category ory',split
19]: <del>[</del> 3]:	split=f fashior fashior	fashion[ n.insert( Brand n.insert(	(fashion.cc  Details  (fashi@NecC  neck viscose womens regular top - blue regular fit regular fit length	olumns.get_loc('Discou Sizes olumns.get_loc('Sub Ca Size:Large,Medium,Small,X- Large,X-Small	nt')+1 MRP S	,'Sub Ca iellPrice D	in Catego	Sub Category ory',split
.9]: - <mark>3]:</mark>	split=fashior fashior fashior	Fashion[ n.insert( Brand n.insert(	(fashion.cc  Details  (fashion.cc  neck viscose womens regular top blue regular fit regular fit regular length denim womens	olumns.get_loc('Discou Sizes olumns.get_loc('Sub Ca Size:Large,Medium,Small,X- Large,X-Small	nt')+1 MRP S tegory	,'Sub Ca GellPrice D '')+1,'Ma	in Catego	Sub Category ( pry',split
9]: <mark>3]:</mark>	split=fashior fashior fashior	Fashion[ n.insert( Brand n.insert(	(fashion.co  Details  (fashion.co  neck viscose womens regular top - blue regular fit regular length denim	olumns.get_loc('Discou Sizes olumns.get_loc('Sub Ca Size:Large,Medium,Small,X- Large,X-Small	nt')+1 MRP S tegory	,'Sub Ca GellPrice D '')+1,'Ma	in Catego	Sub Category ( pry',split
19]: [3]:	split=fashior fashior fashior	Fashion[ n.insert( Brand n.insert(	(fashion.cc  Details  (fashion.cc  neck viscose womens regular fit regular fit regular fit regular length denim womens jeans printed	olumns.get_loc('Discou Sizes olumns.get_loc('Sub Ca Size:Large,Medium,Small,X- Large,X-Small	nt')+1 MRP S tegory	,'Sub Ca GellPrice D '')+1,'Ma	in Catego	Sub Category ory',split
19]: <del>1</del> 3]:	split=fashior fashior fashior	Fashion[ n.insert( Brand n.insert(	(fashion.cc  Details  (fashionlecc  neck viscose womens regular top blue regular fit regular length denim womens jeans printed viscose	Sizes Size:Large,Medium,Small,X-Large,X-Small Size:26,28,30,32,34,36	nt')+1 MRP S tegory	,'Sub Ca GellPrice D '')+1,'Ma	in Catego	Sub Category ory',split
19]:	split=fashior fashior fashior	Fashion[ n.insert( Brand n.insert(	(fashion.co  Details  (fashion.co  neck viscose womens regular top - blue regular fit regular fit regular length denim womens jeans printed viscose wide neck	Sizes Dlumns.get_loc('Discou Sizes Dlumns.get_loc('Sub Ca Size:Large,Medium,Small,X- Large,X-Small Size:26,28,30,32,34,36	nt')+1 MRP S tegory	,'Sub Ca GellPrice D '')+1,'Ma	in Catego 50 W	Sub Category ( pry',split
19]: <del>1</del> 3]:	split=f fashior fashior  fashior 22	Fashion[ n.insert( Brand n.insert( life	(fashion.cc  Details  (fashion.cc  neck viscose womens regular top blue regular fit regular length denim womens jeans printed viscose wide neck womens regular	Sizes Size: Large Medium Small X	nt')+1 MRP S tegory 1299	,'Sub Ca dellPrice D '')+1,'Ma 649	in Catego 50 W	Sub Category ( Orry', split  Vesternwear
19]: <del>1</del> 3]:	split=f fashior fashior  fashior 22	Fashion[ n.insert( Brand n.insert( life	(fashion.cc  Details  (fashion.cc  neck viscose womens regular top blue regular fit regular fit regular length denim womens jeans printed viscose wide neck womens	Sizes Dlumns.get_loc('Discou Sizes Dlumns.get_loc('Sub Ca Size:Large,Medium,Small,X- Large,X-Small Size:26,28,30,32,34,36	nt')+1 MRP S tegory 1299	,'Sub Ca dellPrice D '')+1,'Ma 649	in Catego 50 W	Sub Category ( Orry', split  Vesternwear
19]: <del>1</del> 3]:	split=f fashior fashior  fashior 22	Fashion[ n.insert( Brand n.insert( life	(fashion.cc  Details  (fashion.cc  neck viscose womens regular top blue regular fit regular length denim womens jeans printed viscose wide neck womens regular	Sizes Dlumns.get_loc('Discou Sizes Dlumns.get_loc('Sub Ca Size:Large,Medium,Small,X- Large,X-Small Size:26,28,30,32,34,36	nt')+1 MRP S tegory 1299	,'Sub Ca dellPrice D '')+1,'Ma 649	in Catego 50 W	Sub Category ( Orry', split  Vesternwear
19]: <del>[</del> 3]:	split=f fashior fashior  fashior 22	Fashion[ n.insert( Brand n.insert( life	(fashion.co  Details  (fashion.co  neck viscose womens regular top - blue  regular fit regular fit regular fit regular sepular length denim womens jeans printed viscose wide neck womens regular dress printed viscose	Sizes Dlumns.get_loc('Discou Sizes Dlumns.get_loc('Sub Ca Size:Large,Medium,Small,X- Large,X-Small Size:26,28,30,32,34,36 Size:Large,Medium,Small,X- Large,X-Small	nt')+1 MRP S tegory 1299	,'Sub Ca dellPrice D '')+1,'Ma 649	in Catego 50 W	Sub Category ( Ory', split[ Vesternwear
19]: <del>[</del> 3]:	split=f fashior fashior  fashior 22	Fashion[ n.insert( Brand n.insert( life	(fashion.co  Details  (fashion.co  neck viscose womens regular top - blue  regular fit regular fit regular fit regular sepular length denim womens jeans printed viscose wide neck womens regular dress printed viscose	Sizes Dlumns.get_loc('Discou Sizes Dlumns.get_loc('Sub Ca Size:Large,Medium,Small,X- Large,X-Small Size:26,28,30,32,34,36	nt')+1 MRP S tegory 1299	,'Sub Ca dellPrice D '')+1,'Ma 649	in Categor 50 W 50 W	Sub Category ( Ory', split[ Vesternwear

720, 10.00	,					.0111011		J L D / C G G	, (0)
In [19]:	fashio								
δΩτ[ <del>1</del> 3]:	fashio	n.insert	(fashion.d	columns.get_loc('Disco	ount')	<b>+1,</b> 'Sub (	Category'		
		Brand	Details	Sizes	MRP	SellPrice	Discount	Sub Category	Cat
In [18]:	fashio	n.insert		columns.get_loc('Sub C	atego	ry')+1,'N	Main Cate	egory',spli	t[1
	22	life	neck viscose womens regular top - blue	Size:Large,Medium,Small,X- Large,X-Small	1299	649	50	Westernwear	W
	24	life	regular fit regular length denim womens jeans	Size:26,28,30,32,34,36	1999	999	50	Westernwear	W
	48	life	printed viscose wide neck womens regular dress	Size:Large,Medium,Small,X- Large,X-Small	1299	649	50	Westernwear	W
	74	stop	printed viscose regular neck womens top - white	Size:Large,Medium,Small,X- Large,X-Small,XX-Large	999	499	50	Westernwear	W
	100	stop	solid polyester regular neck womens top - sage	Size:Large,Medium,Small,X- Large,XX-Large	1299	649	50	Westernwear	W
	•••								
	30702	skagen	elin rose gold bracelet - skj0851791	Size:Error Size	599	5795	50	Jewellery	W
	30716	ayesha	womens stone studded drop earrings - multi	Size:Error Size	698	349	50	Jewellery	W
	30728	fossil	vintage gl two tone bracelet - jf02311040	Size:Error Size	2399	4795	5	Jewellery	W
	30735	jewelz	cotton multicolour girls hair bands	Size:Error Size	999	349	65	Jewellery	W
	30754	swarovski	crystal stylish womens rodhium earrings	Size:Error Size	449	8950	15	Jewellery	W
In [21]:	fassio	Ŵs × 9 col	umns						
Out[21]:	4								•
In [20]:	<u>fashio</u>	<b>Brand</b> n.drop('	<b>Details</b> Category',	Sizes axis=1 ,inplace = Tru	MRP ie)	SellPrice	Discount	Sub Category	Cat
	22	life	solid wide neck viscose womens regular top - blue	Size:Large,Medium,Small,X- Large,X-Small	1299	649	50	Westernwear	W
	24	life	regular fit regular length denim womens jeans	Size:26,28,30,32,34,36	1999	999	50	Westernwear	W
	48	life	printed viscose wide neck womens regular dress	Size:Large,Medium,Small,X- Large,X-Small	1299	649	50	Westernwear	W
	74	stop	printed viscose regular neck womens top - white	Size:Large,Medium,Small,X- Large,X-Small,XX-Large	999	499	50	Westernwear	W

[21]:		Brand	Details	c	izes	MRP	SellPrice	Discount	Sub	•
]: [	fashio	n.drop('	Category',	axis=1 ,inplace =	True	)	SellFrice	Discount	Category	Cat
	22	life	solid wide neck viscose womens regular top - blue	Size:Large,Medium,Sma Large,X-S		1299	649	50	Westernwear	W
	24	life	regular fit regular length denim womens jeans	Size:26,28,30,32,3	4,36	1999	999	50	Westernwear	W
	48	life	printed viscose wide neck womens regular dress	Size:Large,Medium,Sma Large,X-S		1299	649	50	Westernwear	W
	74	stop	printed viscose regular neck womens top - white	Size:Large,Medium,Sma Large,X-Small,XX-L		999	499	50	Westernwear	W
	100	stop	solid polyester regular neck womens top - sage	Size:Large,Medium,Sma Large,XX-L		1299	649	50	Westernwear	W
	30702	skagen	elin rose gold bracelet - skj0851791	Size:Error	Size	599	5795	50	Jewellery	W
	30716	ayesha	womens stone studded drop earrings - multi	Size:Error	Size	698	349	50	Jewellery	W
30728	30728	fossil	vintage gl two tone bracelet - jf02311040	Size:Error	Size	2399	4795	5	Jewellery	W
	30735	jewelz	cotton multicolour girls hair bands	Size:Error	Size	999	349	65	Jewellery	W
	30754	swarovski	crystal stylish womens rodhium earrings	Size:Error	Size	449	8950	15	Jewellery	W
	patafik	gure(dig	น่าสกัธ <sup>(20,8</sup>	3))						
		oplot(1,2								•
				oution Plot')						

C:\Users\kashan\Anaconda3\lib\site-packages\seaborn\distributions.py:2619: Futu reWarning: `distplot` is a deprecated function and will be removed in a future version. Please adapt your code to use either `displot` (a figure-level functio n with similar flexibility) or `histplot` (an axes-level function for histogram s).

warnings.warn(msg, FutureWarning)

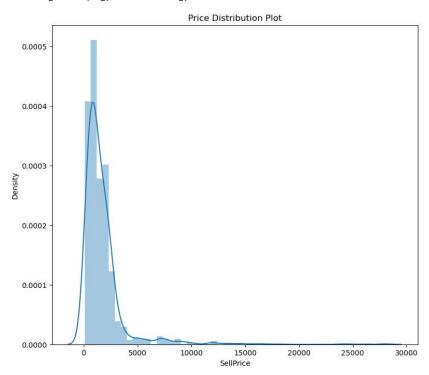


```
In [22]: Pata from Refrigion (20,8))

plt.subplot(1,2,1)
plt.title('Price Distribution Plot')
sns.distplot(fashion.SellPrice)
plt.show()
```

C:\Users\kashan\Anaconda3\lib\site-packages\seaborn\distributions.py:2619: Futu
reWarning: `distplot` is a deprecated function and will be removed in a future
version. Please adapt your code to use either `displot` (a figure-level functio
n with similar flexibility) or `histplot` (an axes-level function for histogram
s).

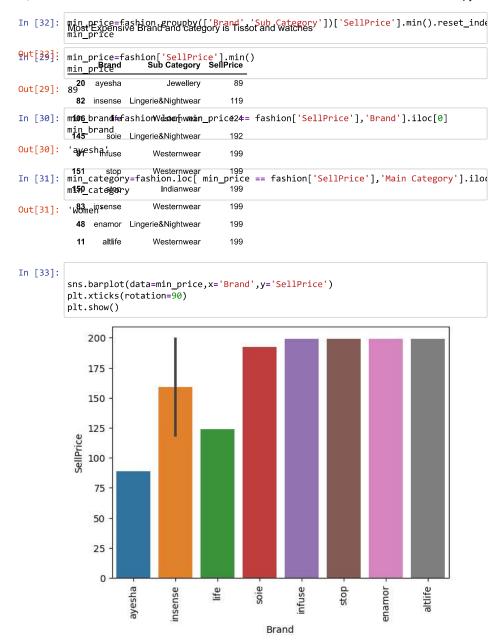
warnings.warn(msg, FutureWarning)



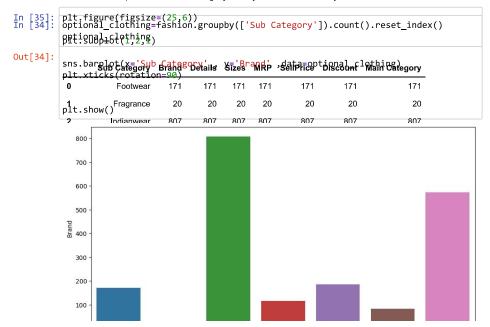
## Which Brand is Most Expensive

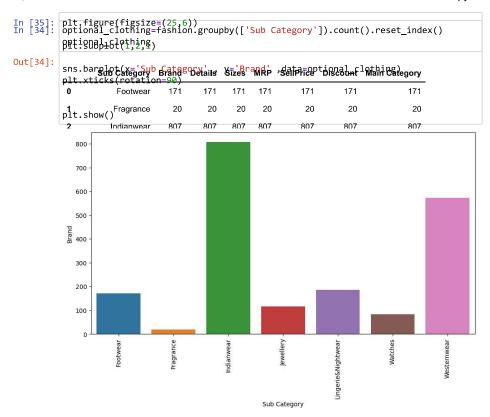
```
In [23]: max_price=fashion['SellPrice'].max()
         max_price
Out[23]: 28000
In [24]: brand=fashion.loc[ max_price == fashion['SellPrice'],'Brand'].iloc[0]
         brand
In [27]: max price
Out[27]:
         Category=fashion.loc[ max_price == fashion['SellPrice'], 'Main Category'].iloc[0]
In [25]:
         Cpggegory
                              Watches
                                        28000
Out[25]: 'Womenhporio armani
                              Watches
                                        27995
                                        25995
          113
               michael kors
                              Watches
         Tissot is the most expensive brand in women
         category with price 28000 Rs
In [26]: max_price=fashFon.groupby(testanded), Sub Category'])['SellPrice'].max().reset_inded
          33
                    coach
                              Watches
                                        11995
          15
                 anne klein
                              Watches
                                        11995
In [28]:
         sns.barplot(data=max_price,x='Brand',y='SellPrice')
         plt.xticks(rotation=90)
         plt.show()
```

```
prana
           max price
In [27]:
Out[27]:
           Category=fashion.loc| max price == fashion['SellPrice'], 'Main Category'].iloc[0]
In [25]:
           Castgegory
                                     Watches
Out[25]: 'Whomenhporio armani
                                     Watches
                                                27995
                   michael kors
            113
                                     Watches
                                                25995
           Tissot is the most expensive brand in women
           category with price 28000 Rs
In [26]: max_price=fashion.groupby(es Brand3495 Sub Category'])['SellPrice'].max().reset_inde
             33
                                     Watches
                                                 11995
             15
                     anne klein
                                     Watches
                                                 11995
In [28]:
           sns.barplot(data=max_price,x='Brand',y='SellPrice')
           plt.xticks(rotation=90)
           plt.show()
                25000
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                 5000
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                                          michael kors
                                                                                                anne klein
                           tissot
                                   emporio armani
                                                         titan
                                                                         tommy hilfiger
                                                                                         coach
                                                  fossil
                                                                 swarovski
                                                            Brand
           min_nrice=fashion_groupby(['Brand','Sub_Category'])['SellPrice'].min().reset_inde_Most_Expensive Brand and category is Tissof and watches
In [32]:
PHt[33]: min_price=fashion['SellPrice'].min()
min_pr#[and Sub Category SellPrice
           min_prEcand
                                                 89
Out[29]: 89
                                  Jewellery
             82 insense Lingerie&Nightwear
                                                119
In [30]: m106_brandfefashionWdsterfweain_price24= fashion['SellPrice'],'Brand'].iloc[0]
           min_brand
145 soie
                         Lingerie&Nightwear
                                                192
Out[30]: 'ayesha'
                                                199
                               Westernwear
           151 stop Westernwear 199 min_category=fashion.loc[ min_price
In [31]:
                                                      == fashion['SellPrice'], 'Main Category'].ilog
           m150_category
                                Indianwear
                                                199
Out[31]: 'Women insense
                               Westernwear
                                                199
             48 enamor
                         Lingerie&Nightwear
                                                199
             11
                   altlife
                               Westernwear
                                                199
In [33]:
           sns.barplot(data=min_price,x='Brand',y='SellPrice')
           plt.xticks(rotation=90)
           plt.show()
```



The most cheapest brand and category are Ayesha and Jewellery

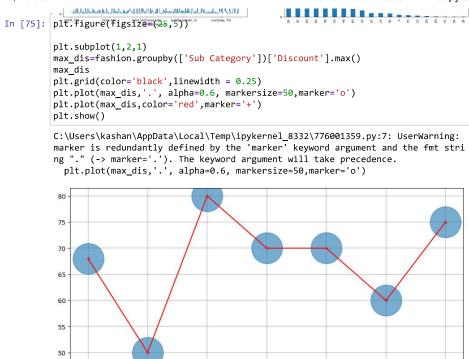




IndianWear category have max number of brands

```
In [66]: plt.figure(figsize=(25,5))
           plt.subplot(1,2,1)
           plt.title('BrandName and Discount')
           fashion.groupby(['Brand'])['Discount'].value_counts().plot()
           plt.subplot(1,2,2)
           plt.title('Max Discount')
           fashion['Discount'].value_counts().head(20).plot(kind='bar')
           plt.show()
In [75]: plt.figure(figsize=(25,5))
           plt.subplot(1,2,1)
           max_dis=fashion.groupby(['Sub Category'])['Discount'].max()
           \max_{dis}
           plt.grid(color='black',linewidth = 0.25)
           plt.plot(max_dis,'.', alpha=0.6, markersize=50,marker='o')
           plt.plot(max_dis,color='red',marker='+')
           plt.show()
            \verb| C:\Users\kashan\AppData\Local\Temp\ipykernel\_8332\776001359.py:7: UserWarning: \\
           marker is redundantly defined by the 'marker' keyword argument and the fmt stri
ng "." (-> marker='.'). The keyword argument will take precedence.
plt.plot(max_dis,'.', alpha=0.6, markersize=50,marker='o')
            80
            75
            70
            60
```

Footwear



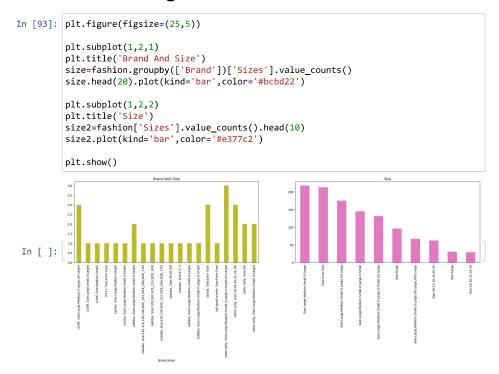
## From the above plot, we can say that maximum Discount is given on IndianWear

Lingerie&Nightwear

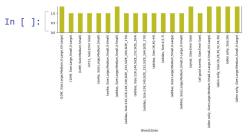
Watches

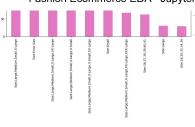
Westernwear

Indianwear



As fashion industry is progressing, the brands are trying their best to fit into every customer size from small to XL sizes as well. Thus, from the above analysis it is clear that though the gap is shortneing but their is still high demand for sizes in Small,X-Small, Medium, Large and X-Large





As fashion industry is progressing, the brands are trying their best to fit into every customer size from small to XL sizes as well. Thus, from the above analysis it is clear that though the gap is shortneing but their is still high demand for sizes in Small,X-Small, Medium, Large and X-Large