

Q1 Find the number of episodes

Q2 Min , max , mean of asked amount , asked equity and asked valuation wise

Q3 Brand name in sharks in which 2,3, or 4 sharks have invested

Q4 Episode wise Min, Max of sharks invested

Q5 No. of sharks the brand have invested

Q6 Brand name who asked for 1 crore and got the deal

Q7 Find the number of brands participated in this show and what their names

Q8 Find appearance of each sharks

Q9 How many entrepreneurs were present

Q10 How many times each shark invested the deal

Q11 Find the equity percentage each shark gets

Q12 Find the total number of amount invested in this show

```
In [1]: import pandas as pd  
df=pd.read_csv('Shark Tank India Dataset.csv')
```

```
In [2]: df
```

Out[2]:

	episode_number	pitch_number	brand_name	idea	deal	pitcher_ask_amount	ask_eqi
0	1	1	BluePine Industries	Frozen Momos	1	50.0	
1	1	2	Booz scooters	Renting e-bike for mobility in private spaces	1	40.0	
2	1	3	Heart up my Sleeves	Detachable Sleeves	1	25.0	
3	2	4	Tagz Foods	Healthy Potato Chips	1	70.0	
4	2	5	Head and Heart	Brain Development Course	0	50.0	
...
112	34	113	Green Protein	Plant-Based Protein	0	60.0	
113	34	114	On2Cook	Fastest Cooking Device	0	100.0	
114	35	115	Jain Shikanji	Lemonade	1	40.0	
115	35	116	Woloo	Washroom Finder	0	50.0	
116	35	117	Elcare India	Carenting for Elders	0	100.0	

117 rows × 28 columns

In [3]: `df.columns`

Out[3]: Index(['episode_number', 'pitch_number', 'brand_name', 'idea', 'deal', 'pitcher_ask_amount', 'ask_equity', 'ask_valuation', 'deal_amount', 'deal_equity', 'deal_valuation', 'ashneer_present', 'anupam_present', 'aman_present', 'namita_present', 'vineeta_present', 'peyush_present', 'ghazal_present', 'ashneer_deal', 'anupam_deal', 'aman_deal', 'namita_deal', 'vineeta_deal', 'peyush_deal', 'ghazal_deal', 'total_sharks_invested', 'amount_per_shark', 'equity_per_shark'], dtype='object')

In [4]: `df.isnull().sum()#finding if there is any null value`

```
Out[4]: episode_number          0  
pitch_number                  0  
brand_name                    0  
idea                           0  
deal                           0  
pitcher_ask_amount            0  
ask_equity                    0  
ask_valuation                 0  
deal_amount                   0  
deal_equity                   0  
deal_valuation                0  
ashneer_present               0  
anupam_present                0  
aman_present                   0  
namita_present                0  
vineeta_present               0  
peyush_present                0  
ghazal_present                0  
ashneer_deal                  0  
anupam_deal                   0  
aman_deal                     0  
namita_deal                   0  
vineeta_deal                  0  
peyush_deal                   0  
ghazal_deal                   0  
total_sharks_invested         0  
amount_per_shark              0  
equity_per_shark              0  
dtype: int64
```

```
In [5]: df.info() #finding no. categorical and numerical data
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 117 entries, 0 to 116
Data columns (total 28 columns):
 #   Column           Non-Null Count  Dtype  
--- 
 0   episode_number    117 non-null    int64  
 1   pitch_number      117 non-null    int64  
 2   brand_name        117 non-null    object  
 3   idea              117 non-null    object  
 4   deal               117 non-null    int64  
 5   pitcher_ask_amount 117 non-null    float64 
 6   ask_equity        117 non-null    float64 
 7   ask_valuation     117 non-null    float64 
 8   deal_amount       117 non-null    float64 
 9   deal_equity       117 non-null    float64 
 10  deal_valuation   117 non-null    float64 
 11  ashneer_present  117 non-null    int64  
 12  anupam_present   117 non-null    int64  
 13  aman_present     117 non-null    int64  
 14  namita_present   117 non-null    int64  
 15  vineeta_present  117 non-null    int64  
 16  peyush_present   117 non-null    int64  
 17  ghazal_present   117 non-null    int64  
 18  ashneer_deal    117 non-null    int64  
 19  anupam_deal     117 non-null    int64  
 20  aman_deal        117 non-null    int64  
 21  namita_deal     117 non-null    int64  
 22  vineeta_deal    117 non-null    int64  
 23  peyush_deal     117 non-null    int64  
 24  ghazal_deal     117 non-null    int64  
 25  total_sharks_invested 117 non-null  int64  
 26  amount_per_shark 117 non-null    float64 
 27  equity_per_shark 117 non-null    float64 
dtypes: float64(8), int64(18), object(2)
memory usage: 25.7+ KB
```

In [6]: `df.describe()`

Out[6]:

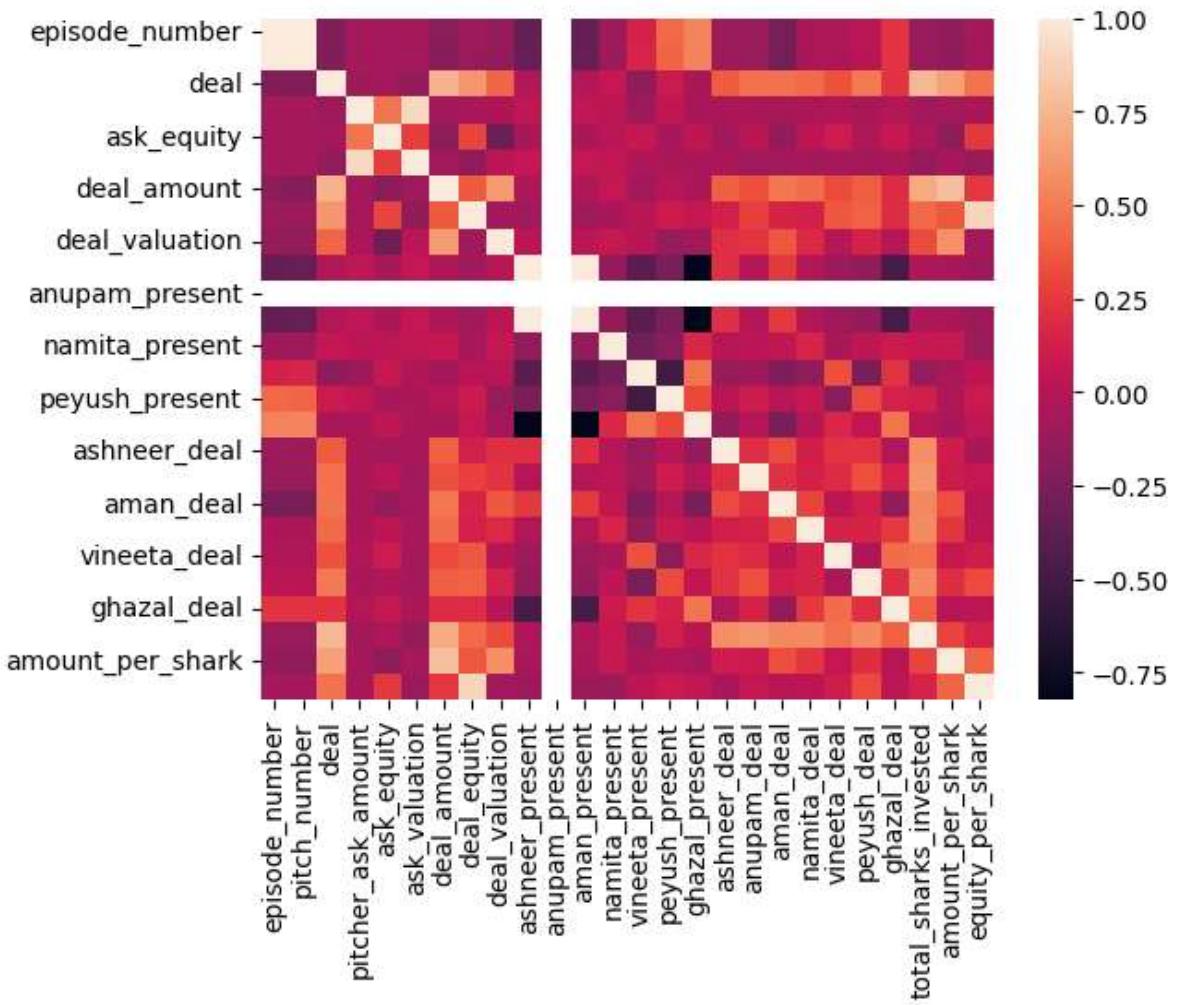
	episode_number	pitch_number	deal	pitcher_ask_amount	ask_equity	ask_valuation
count	117.000000	117.000000	117.000000	117.000000	117.000000	117.000000
mean	18.735043	59.000000	0.555556	319.854709	5.188034	3852.462479
std	10.070778	33.919021	0.499041	2767.842777	3.892121	11931.601957
min	1.000000	1.000000	0.000000	0.001010	0.250000	0.010000
25%	10.000000	30.000000	0.000000	45.000000	2.500000	666.670000
50%	19.000000	59.000000	1.000000	50.000000	5.000000	1250.000000
75%	27.000000	88.000000	1.000000	80.000000	7.500000	2857.140000
max	35.000000	117.000000	1.000000	30000.000000	25.000000	120000.000000

8 rows × 26 columns

In [91]: `import seaborn as sns
sns.heatmap(df.corr())`

C:\Users\acer\AppData\Local\Temp\ipykernel_12620\2249596087.py:2: FutureWarning: The default value of numeric_only in DataFrame.corr is deprecated. In a future version, it will default to False. Select only valid columns or specify the value of numeric_only to silence this warning.
sns.heatmap(df.corr())

Out[91]: <AxesSubplot: >



```
In [7]: maxthresold = df['pitcher_ask_amount'].quantile(0.95)
minthresold = df['pitcher_ask_amount'].quantile(0.05)
```

```
In [8]: maxthresold
```

```
Out[8]: 120.9999999999994
```

```
In [9]: minthresold
```

```
Out[9]: 25.0
```

```
In [10]: df[df['pitcher_ask_amount'] < minthresold]
```

Out[10]:

	episode_number	pitch_number	brand_name		idea	deal	pitcher_ask_amount	ask_equit
14	5	15	Shrawani Engineers	Belly Button Shaper	0		10.00000	20
44	15	45	Cocofit	Coconut based beverage franchise	1		5.00000	5
57	19	58	Ethik	Leather-free Shoes	0		15.00000	5
77	24	78	Nuskha Kitchen	Homemade Foods	0		20.00000	10
85	27	86	Watt Technovations	Ventilated PPE Kits	1		0.00101	10

5 rows × 28 columns

In [11]: `df[df['pitcher_ask_amount'] > maxthresold]`

Out[11]:

	episode_number	pitch_number	brand_name		idea	deal	pitcher_ask_amount	ask_ec
30	11	31	Gopal's 56	Fiber Ice Cream	0		30000.0	2
50	17	51	Aas Vidyalaya	EdTech App	1		150.0	
59	19	60	KetoIndia	Customised Keto Diets for various medical issues	0		125.0	
80	25	81	Alpino	Roasted Peanut Products	0		150.0	
96	30	97	Shades of Spring	Flowers	0		300.0	
103	32	104	Experiential Etc	Technology layered Advertisement Services	0		200.0	

6 rows × 28 columns

In [12]: `df2=df.replace(0.00101,50)`

In [13]: `df2`

Out[13]:

	episode_number	pitch_number	brand_name	idea	deal	pitcher_ask_amount	ask_eqi
0	1	1	BluePine Industries	Frozen Momos	1	50.0	-
1	1	2	Booz scooters	Renting e-bike for mobility in private spaces	1	40.0	-
2	1	3	Heart up my Sleeves	Detachable Sleeves	1	25.0	-
3	2	4	Tagz Foods	Healthy Potato Chips	1	70.0	-
4	2	5	Head and Heart	Brain Development Course	0	50.0	-
...
112	34	113	Green Protein	Plant-Based Protein	0	60.0	-
113	34	114	On2Cook	Fastest Cooking Device	0	100.0	-
114	35	115	Jain Shikanji	Lemonade	1	40.0	-
115	35	116	Woloo	Washroom Finder	0	50.0	-
116	35	117	Elcare India	Carenting for Elders	0	100.0	-

117 rows × 28 columns

In [14]: `maxthresold = df2['ask_equity'].quantile(0.95)`
`minthresold = df2['ask_equity'].quantile(0.05)`

In [15]: `maxthresold`

Out[15]: `10.0`

In [16]: `minthresold`

Out[16]: `1.0`

In [17]: `df2['ask_equity'].min()`

Out[17]: `0.25`

In [18]: `df2['ask_equity'].max()`

```
Out[18]: 25.0
```

```
In [19]: maxthresold = df2['ask_valuation'].quantile(0.95)
minthresold = df2['ask_valuation'].quantile(0.05)
```

```
In [20]: df2['ask_valuation'].min()
```

```
Out[20]: 0.01
```

```
In [21]: df2['ask_valuation'].max()
```

```
Out[21]: 120000.0
```

```
In [22]: df2.sort_values('ask_valuation', ascending=True)
```

	episode_number	pitch_number	brand_name	idea	deal	pitcher_ask_amount	ask_equ
85	27	86	Watt Technovations	Ventilated PPE Kits	1	50.0	10
14	5	15	Shrawani Engineers	Belly Button Shaper	0	10.0	20
44	15	45	Cocofit	Coconut based beverage franchise	1	5.0	5
77	24	78	Nuskha Kitchen	Homemade Foods	0	20.0	10
2	1	3	Heart up my Sleeves	Detachable Sleeves	1	25.0	10
...
113	34	114	On2Cook	Fastest Cooking Device	0	100.0	1
12	5	13	Revamp Moto	E-Bike	1	100.0	1
96	30	97	Shades of Spring	Flowers	0	300.0	1
6	3	7	Qzense Labs	Food Freshness Detector	0	100.0	0
30	11	31	Gopal's 56	Fiber Ice Cream	0	30000.0	25

117 rows × 28 columns

```
In [23]: df3=df2.replace(0.01,50)
```

Q1 Find the number of episodes

```
In [94]: N_of_episode = df3['episode_number'].nunique()
```

```
In [95]: N_of_episode #number of episodes were 117
```

```
Out[95]: 35
```

```
In [96]: print('Number of Episode =',N_of_episode)
```

```
Number of Episode = 35
```

Q2 Min , max , mean of asked amount , asked equity and asked valuation wise

```
In [100...]: print('Minimum of Pitcher Ask Amount =',df3['pitcher_ask_amount'].min())
print('Maximum of Pitcher Ask Amount =',df3['pitcher_ask_amount'].max())
print('Mean of Pitcher Ask Amount =',df3['pitcher_ask_amount'].mean())
print('Minimum of Ask Equity =',df3['ask_equity'].min())
print('Maximum of Ask Equity =',df3['ask_equity'].max())
print('Mean of Ask Equity =',df3['ask_equity'].mean())
print('Minimum of Ask Valuation =',df3['ask_valuation'].min())
print('Max of Ask Valuation',df3['ask_valuation'].max())
print('Mean of Ask Valuation',df3['ask_valuation'].mean())
```

```
Minimum of Pitcher Ask Amount = 5.0
Maximum of Pitcher Ask Amount = 30000.0
Mean of Pitcher Ask Amount = 320.28205128205127
Minimum of Ask Equity = 0.25
Maximum of Ask Equity = 25.0
Mean of Ask Equity = 5.188034188034188
Minimum of Ask Valuation = 50.0
Max of Ask Valuation 120000.0
Mean of Ask Valuation 3852.8897435897434
```

```
In [102...]: import seaborn as sns
import matplotlib.pyplot as plt

# create data
categories = ["Min0", "Max", "Mean"]
Pitcher_Ask_Amount = [5,30000, 320,]
Ask_Equity = [0.25, 25, 5,]
Ask_Valuation = [50, 120000,3852]

# set figure size
plt.figure(figsize=(10, 5))

# create 3 subplots
plt.subplot(1, 3, 1)
sns.barplot(x=categories, y=Pitcher_Ask_Amount)
plt.title("Plot 1")
```

```

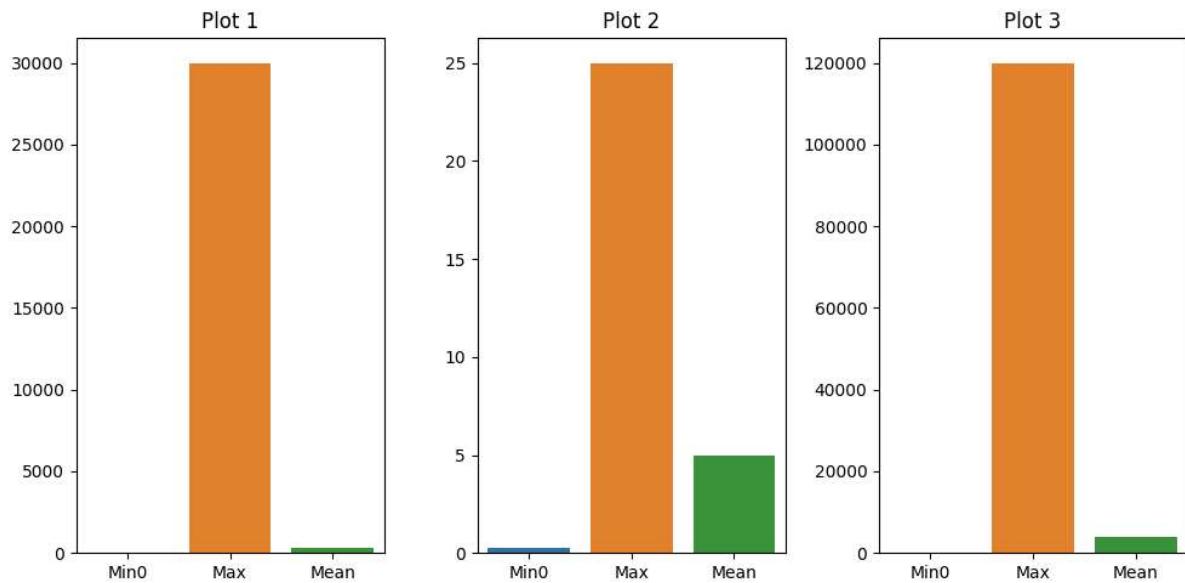
plt.subplot(1, 3, 2)
sns.barplot(x=categories, y=Ask_Equity)
plt.title("Plot 2")

plt.subplot(1, 3, 3)
sns.barplot(x=categories, y=Ask_Valuation)
plt.title("Plot 3")

# adjust spacing between subplots
plt.tight_layout()

# show plot
plt.show()

```



Q3 Brand name in sharks in which 2,3, or 4 sharks have invested

In [35]: df3.head(3)

Out[35]:

	episode_number	pitch_number	brand_name	idea	deal	pitcher_ask_amount	ask_equity
0	1	1	BluePine Industries	Frozen Momos	1	50.0	5.0
1	1	2	Booz scooters	Renting e-bike for mobility in private spaces	1	40.0	15.0
2	1	3	Heart up my Sleeves	Detachable Sleeves	1	25.0	10.0

3 rows × 28 columns

In [36]: df3.columns

Out[36]: Index(['episode_number', 'pitch_number', 'brand_name', 'idea', 'deal', 'pitcher_ask_amount', 'ask_equity', 'ask_valuation', 'deal_amount', 'deal_equity', 'deal_valuation', 'ashneer_present', 'anupam_present', 'aman_present', 'namita_present', 'vineeta_present', 'peyush_present', 'ghazal_present', 'ashneer_deal', 'anupam_deal', 'aman_deal', 'namita_deal', 'vineeta_deal', 'peyush_deal', 'ghazal_deal', 'total_sharks_invested', 'amount_per_shark', 'equity_per_shark'], dtype='object')

In [37]: shark_2_3_4=df3[(df3['total_sharks_invested']>1) & (df3['total_sharks_invested']<5)]

In [103...]: shark_2_3_4['brand_name']

```
Out[103]: 0           BluePine Industries
1             Booz scooters
2        Heart up my Sleeves
9                  Cosiq
11                Bummer
12            Revamp Moto
18      Raising Superstars
21        Beyond Snack
22  Vivalyf Innovations- Easy Life
24                 Altor
25                 Ariro
27              Nuutjob
28            Meatyour
29          EventBeep
32                 Farda
35                 LOKA
36                 Annie
37            Caragreen
38      The Yarn Bazaar
39    The Renal Project
44            Cocofit
45      Bamboo India
47        Beyond Water
48        Let's Try
50       Aas Vidyalaya
58            WeSTOCK
64        Get a Whey
66      The Quirky Nari
67        Hair Originals
75        The Sass Bar
85      Watt Technovations
88            Humpy A2
90  Gold Safe Solutions Ind.
91            Wakao Foods
95            Kabaddi Adda
108           Tweek Labs
109            Proxgy
110      Nomad Food Project
114            Jain Shikanji
Name: brand_name, dtype: object
```

```
In [106...]: pd.DataFrame(shark_2_3_4['brand_name'].unique())
```

Out[106]:

0

0	BluePine Industries
1	Booz scooters
2	Heart up my Sleeves
3	Cosiq
4	Bummer
5	Revamp Moto
6	Raising Superstars
7	Beyond Snack
8	Vivalyf Innovations- Easy Life
9	Altor
10	Ariro
11	Nuutjob
12	Meatyour
13	EventBeep
14	Farda
15	LOKA
16	Annie
17	Caragreen
18	The Yarn Bazaar
19	The Renal Project
20	Cocofit
21	Bamboo India
22	Beyond Water
23	Let's Try
24	Aas Vidyalaya
25	WeSTOCK
26	Get a Whey
27	The Quirky Nari
28	Hair Originals
29	The Sass Bar
30	Watt Technovations
31	Humpy A2
32	Gold Safe Solutions Ind.

0	
33	Wakao Foods
34	Kabaddi Adda
35	Tweek Labs
36	Proxgy
37	Nomad Food Project
38	Jain Shikanji

Q4 Episode wise Min, Max of sharks invested

In [40]: `df3.head(1)`

Out[40]:

	episode_number	pitch_number	brand_name	idea	deal	pitcher_ask_amount	ask_equity	asl
0	1	1	BluePine Industries	Frozen Momos	1	50.0	5.0	

1 rows × 28 columns

In [41]: `df3.columns`

Out[41]:

```
Index(['episode_number', 'pitch_number', 'brand_name', 'idea', 'deal',
       'pitcher_ask_amount', 'ask_equity', 'ask_valuation', 'deal_amount',
       'deal_equity', 'deal_valuation', 'ashneer_present', 'anupam_present',
       'aman_present', 'namita_present', 'vineeta_present', 'peyush_present',
       'ghazal_present', 'ashneer_deal', 'anupam_deal', 'aman_deal',
       'namita_deal', 'vineeta_deal', 'peyush_deal', 'ghazal_deal',
       'total_sharks_invested', 'amount_per_shark', 'equity_per_shark'],
      dtype='object')
```

In [42]: `episode_group=df3.groupby('episode_number')`

In [119...]: `Grouper_Data.episode_group`

Out[119]: 10

Q5 No. of sharks the brand have invested

In [44]: `df3.columns`

```
Out[44]: Index(['episode_number', 'pitch_number', 'brand_name', 'idea', 'deal',
       'pitcher_ask_amount', 'ask_equity', 'ask_valuation', 'deal_amount',
       'deal_equity', 'deal_valuation', 'ashneer_present', 'anupam_present',
       'aman_present', 'namita_present', 'vineeta_present', 'peyush_present',
       'ghazal_present', 'ashneer_deal', 'anupam_deal', 'aman_deal',
       'namita_deal', 'vineeta_deal', 'peyush_deal', 'ghazal_deal',
       'total_sharks_invested', 'amount_per_shark', 'equity_per_shark'],
      dtype='object')
```

```
In [45]: df3.loc[:,['brand_name', 'total_sharks_invested']]
```

```
Out[45]:
```

	brand_name	total_sharks_invested
0	BluePine Industries	3
1	Booz scooters	2
2	Heart up my Sleeves	2
3	Tagz Foods	1
4	Head and Heart	0
...
112	Green Protein	0
113	On2Cook	0
114	Jain Shikanji	4
115	Woloo	0
116	Elcare India	0

117 rows × 2 columns

Q6 Brand name who asked for 1 crore and got the deal

```
In [46]: df4=df3[(df3['pitcher_ask_amount']>99)&(df3['ask_equity']>0)]
```

```
In [47]: df4
```

	episode_number	pitch_number	brand_name	idea	deal	pitcher_ask_amount	ask_ec
6	3	7	Qzense Labs	Food Freshness Detector	0	100.0	
12	5	13	Revamp Moto	E-Bike	1	100.0	
17	6	18	Hecoll	Pollution Resistant Fabric	0	100.0	
18	7	19	Raising Superstars	Child Development App	0	100.0	
26	9	27	Kabira Handmade	Healthy Oils	0	100.0	
30	11	31	Gopal's 56	Fiber Ice Cream	0	30000.0	2
39	14	40	The Renal Project	Home Dialysis Treatment	1	100.0	
40	14	41	Morikko Pure Foods	Healthy Food Snacks	0	100.0	
50	17	51	Aas Vidyalaya	EdTech App	1	150.0	
55	18	56	Otua	Electric Auto Vehicle	1	100.0	
59	19	60	KetoIndia	Customised Keto Diets for various medical issues	0	125.0	
60	19	61	Magic lock	LPG Cylinder lock	0	120.0	
64	21	65	Get a Whey	Sugar-Free Icecream	1	100.0	
71	23	72	Namhya Foods	Ayurvedic Enriched Food	1	100.0	
72	23	73	Urban Monkey	Streetwear	0	100.0	
79	25	80	Sunfox Technologies	Portable ECG Device	1	100.0	
80	25	81	Alpino	Roasted Peanut Products	0	150.0	
87	27	88	Insurance Samadhan	Insurance Solutions	1	100.0	
93	29	94	PlayBox TV	Streaming	0	100.0	

episode_number	pitch_number	brand_name		idea	deal	pitcher_ask_amount	ask_ec
Platform							
96	30	97	Shades of Spring	Flowers	0	300.0	
103	32	104	Experiential Etc	Technology layered Advertisement Services	0	200.0	
113	34	114	On2Cook	Fastest Cooking Device	0	100.0	
116	35	117	Elcare India	Carenting for Elders	0	100.0	

23 rows x 28 columns

In [120]: pd.DataFrame(df4['brand_name'])

```
Out[120]:
```

	brand_name
6	Qzense Labs
12	Revamp Moto
17	Hecolll
18	Raising Superstars
26	Kabira Handmade
30	Gopal's 56
39	The Renal Project
40	Morikko Pure Foods
50	Aas Vidyalaya
55	Otua
59	KetolIndia
60	Magic lock
64	Get a Whey
71	Namhya Foods
72	Urban Monkey
79	Sunfox Technologies
80	Alpino
87	Insurance Samadhan
93	PlayBox TV
96	Shades of Spring
103	Experiential Etc
113	On2Cook
116	Elcare India

Q7 Find the number of brands participated in this show and what there names

```
In [124...]: df3['brand_name'].nunique()
```

```
Out[124]: 117
```

Q8 Find appearance of each sharks

```
In [52]: df3.columns
```

```
Out[52]: Index(['episode_number', 'pitch_number', 'brand_name', 'idea', 'deal',
       'pitcher_ask_amount', 'ask_equity', 'ask_valuation', 'deal_amount',
       'deal_equity', 'deal_valuation', 'ashneer_present', 'anupam_present',
       'aman_present', 'namita_present', 'vineeta_present', 'peyush_present',
       'ghazal_present', 'ashneer_deal', 'anupam_deal', 'aman_deal',
       'namita_deal', 'vineeta_deal', 'peyush_deal', 'ghazal_deal',
       'total_sharks_invested', 'amount_per_shark', 'equity_per_shark'],
      dtype='object')
```

```
In [53]: df5=pd.DataFrame(df3,columns=['ashneer_present', 'anupam_present',
                                         'aman_present', 'namita_present', 'vineeta_present', 'peyush_present',
                                         'ghazal_present'])
```

```
In [54]: df6=(df5>0).sum(axis=0)
```

```
In [55]: df6
```

```
Out[55]: ashneer_present    98
anupam_present     117
aman_present        98
namita_present     106
vineeta_present     66
peyush_present      88
ghazal_present      26
dtype: int64
```

Q9 How many entrepreneur were present

```
In [56]: import numpy as np
df7=df3['brand_name'].unique()
```

```
In [57]: df8=pd.DataFrame(df7)
```

```
In [58]: df8.count()
```

```
Out[58]: 0    117
dtype: int64
```

Q10 How many times each sharks invested the deal

```
In [59]: df3.columns
```

```
Out[59]: Index(['episode_number', 'pitch_number', 'brand_name', 'idea', 'deal',
       'pitcher_ask_amount', 'ask_equity', 'ask_valuation', 'deal_amount',
       'deal_equity', 'deal_valuation', 'ashneer_present', 'anupam_present',
       'aman_present', 'namita_present', 'vineeta_present', 'peyush_present',
       'ghazal_present', 'ashneer_deal', 'anupam_deal', 'aman_deal',
       'namita_deal', 'vineeta_deal', 'peyush_deal', 'ghazal_deal',
       'total_sharks_invested', 'amount_per_shark', 'equity_per_shark'],
      dtype='object')
```

```
In [60]: df9=pd.DataFrame(df3,columns=['ashneer_deal', 'anupam_deal', 'aman_deal',
       'namita_deal', 'vineeta_deal', 'peyush_deal', 'ghazal_deal'])
```

```
In [61]: df9.sum(axis=0)
```

```
Out[61]: ashneer_deal    21
anupam_deal     24
aman_deal      28
namita_deal    22
vineeta_deal   15
peyush_deal    27
ghazal_deal     7
dtype: int64
```

Q11 Find the equity percentage each sharks gets

```
In [62]: df11=pd.DataFrame(df3,columns=['deal_equity','ashneer_deal', 'anupam_deal', 'aman_deal',
       'namita_deal', 'vineeta_deal', 'peyush_deal', 'ghazal_deal','total_sharks_invested'])
```

Total Equity

```
In [63]: total_equity=df11['deal_equity'].sum()
total_equity
```

```
Out[63]: 1048.73
```

Ashneer Equity Percentage

```
In [64]: df12=pd.DataFrame(df3,columns=['deal_equity','ashneer_deal', 'total_sharks_invested'])
```

```
In [65]: df12= df12[df12['ashneer_deal'] != 0]
```

```
In [66]: ashneer_equity=df12['deal_equity']/df12['total_sharks_invested']
```

```
In [67]: ashneer_equity=ashneer_equity.sum()
ashneer_equity
```

```
Out[67]: 93.25
```

```
In [68]: ashneer_equity_percentage=ashneer_equity/total_equity*100  
ashneer_equity_percentage
```

```
Out[68]: 8.891707112412156
```

8.89% equity shares were purchased by ashneer

```
In [ ]:
```

Anupam Equity Percentage

```
In [69]: df13=pd.DataFrame(df3,columns=['deal_equity','anupam_deal', 'total_sharks_invested'])
```

```
In [70]: df13= df13[df13['anupam_deal'] != 0]
```

```
In [71]: anupam_equity=df13['deal_equity']/df13['total_sharks_invested']
```

```
In [72]: anupam_equity=anupam_equity.sum()  
anupam_equity
```

```
Out[72]: 166.35
```

```
In [73]: anupam_equity_percentage=anupam_equity/total_equity*100  
anupam_equity_percentage
```

```
Out[73]: 15.862042661123454
```

15.86% shares were purchased by Anupam

```
In [ ]:
```

Aman Equity Percentage

```
In [74]: df14=pd.DataFrame(df3,columns=['deal_equity','aman_deal', 'total_sharks_invested'])  
df14= df14[df14['aman_deal'] != 0]  
aman_equity=df14['deal_equity']/df14['total_sharks_invested']  
aman_equity=aman_equity.sum()  
aman_equity_percentage=aman_equity/total_equity*100  
aman_equity_percentage
```

```
Out[74]: 15.281658132534906
```

15.28% shares were purchased by aman

```
In [75]: df15=pd.DataFrame(df3,columns=['deal_equity','namita_deal', 'total_sharks_invested']
df15= df15[df15['namita_deal'] != 0]
namita_equity=df15['deal_equity']/df15['total_sharks_invested']
namita_equity=namita_equity.sum()
namita_equity
namita_equity_percentage=namita_equity/total_equity*100
namita_equity_percentage
```

```
Out[75]: 12.852052800371242
```

12.85 Percent Shares purchased by Namita

```
In [ ]:
```

```
In [76]: df16=pd.DataFrame(df3,columns=['deal_equity','vineeta_deal', 'total_sharks_invested']
df16= df16[df16['vineeta_deal'] != 0]
vineeta_equity=df16['deal_equity']/df16['total_sharks_invested']
vineeta_equity=vineeta_equity.sum()
vineeta_equity
vineeta_equity_percentage=vineeta_equity/total_equity*100
vineeta_equity_percentage
```

```
Out[76]: 12.542154161064653
```

12.54 % shares were purchased by namita

```
In [77]: df17=pd.DataFrame(df3,columns=['deal_equity','peyush_deal', 'total_sharks_invested']
df17= df17[df17['peyush_deal'] != 0]
peyush_equity=df17['deal_equity']/df17['total_sharks_invested']
peyush_equity=peyush_equity.sum()
peyush_equity
peyush_equity_percentage=peyush_equity/total_equity*100
peyush_equity_percentage
```

```
Out[77]: 30.117380069226584
```

30.11 % shares were purchased by Peyush

```
In [ ]:
```

```
In [78]: df18=pd.DataFrame(df3,columns=['deal_equity','ghazal_deal', 'total_sharks_invested']
df18= df18[df18['ghazal_deal'] != 0]
ghazal_equity=df18['deal_equity']/df18['total_sharks_invested']
ghazal_equity=ghazal_equity.sum()
```

```
ghazal_equity
ghazal_equity_percentage=ghazal_equity/total_equity*100
ghazal_equity_percentage
```

Out[78]: 4.453005063267

4.45 % shares were purchased by Peyush

```
In [79]: Total_Equity_percentage=ashneer_equity_percentage+anupam_equity_percentage+aman_equa
```

```
In [80]: Total_Equity_percentage
```

Out[80]: 100.0

Total Percentage of all sharks are 100% Hence Values are Correct

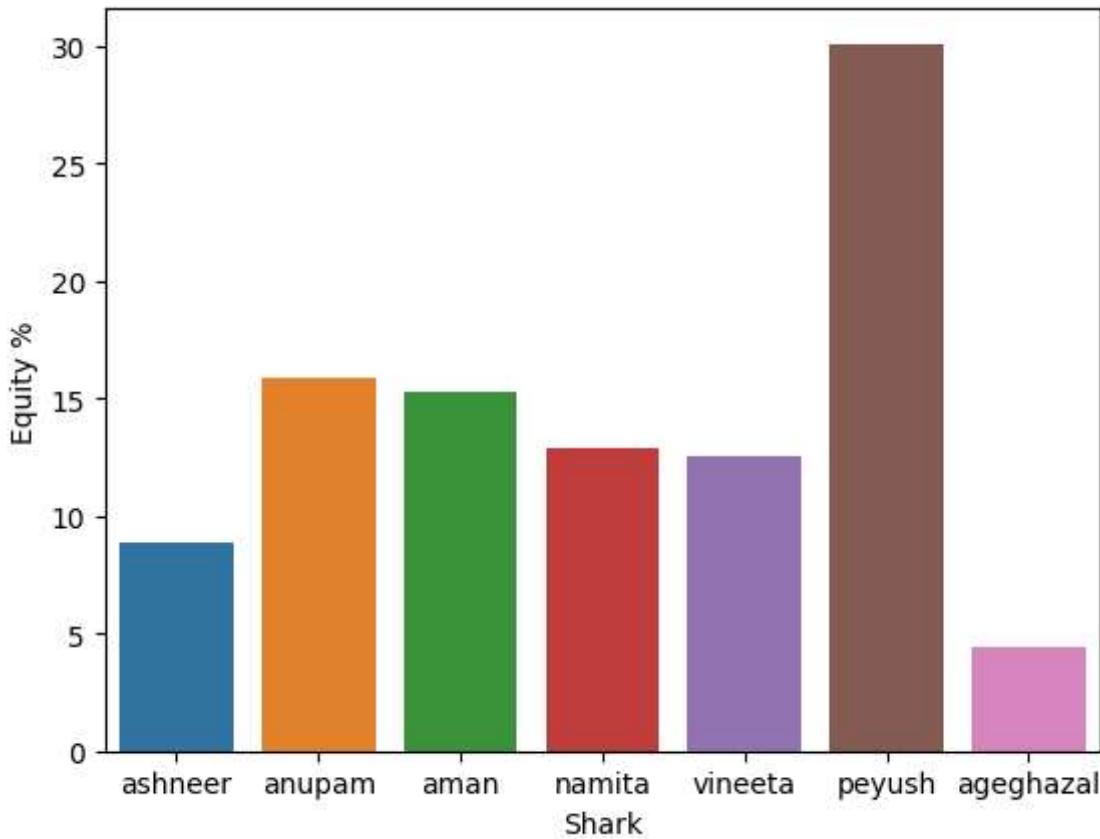
```
In [81]: print('ashneer_equity_percentage=',ashneer_equity_percentage)
print('anupam_equity_percentage=',anupam_equity_percentage)
print('aman_equity_percentage=',aman_equity_percentage)
print('namita_equity_percentage=',namita_equity_percentage)
print('vineeta_equity_percentage=',vineeta_equity_percentage)
print('peyush_equity_percentage=',peyush_equity_percentage)
print('ghazal_equity_percentage=',ghazal_equity_percentage)
print('Total=',Total_Equity_percentage)
```

```
ashneer_equity_percentage= 8.891707112412156
anupam_equity_percentage= 15.862042661123454
aman_equity_percentage= 15.281658132534906
namita_equity_percentage= 12.852052800371242
vineeta_equity_percentage= 12.542154161064653
peyush_equity_percentage= 30.117380069226584
ghazal_equity_percentage= 4.453005063267
Total= 100.0
```

```
In [130...]: import seaborn as sns
import matplotlib.pyplot as plt

x_1=['ashneer','anupam','aman','namita','vineeta','peyush',"ageghazal"]

y_1=[8.89,15.86,15.28,12.85,12.54,30.11,4.45]
# Create a bar plot of the total bill by day
sns.barplot(x=x_1, y=y_1, )
plt.xlabel('Shark')
plt.ylabel('Equity %')
# Show the plot
plt.show()
```



Q12 Find the total number of amount invested in this show

In [82]: df3

Out[82]:

	episode_number	pitch_number	brand_name	idea	deal	pitcher_ask_amount	ask_eqi
0	1	1	BluePine Industries	Frozen Momos	1	50.0	-
1	1	2	Booz scooters	Renting e-bike for mobility in private spaces	1	40.0	-
2	1	3	Heart up my Sleeves	Detachable Sleeves	1	25.0	-
3	2	4	Tagz Foods	Healthy Potato Chips	1	70.0	-
4	2	5	Head and Heart	Brain Development Course	0	50.0	-
...
112	34	113	Green Protein	Plant-Based Protein	0	60.0	-
113	34	114	On2Cook	Fastest Cooking Device	0	100.0	-
114	35	115	Jain Shikanji	Lemonade	1	40.0	-
115	35	116	Woloo	Washroom Finder	0	50.0	-
116	35	117	Elcare India	Carenting for Elders	0	100.0	-

117 rows × 28 columns

In [83]: `Total_Amount_Invested =df3['deal_amount'].sum()`

In [84]: `print('Total_Amount_Invested=',Total_Amount_Invested,'Lc')`

Total_Amount_Invested= 3792.00005 Lc

In []: