

```
import pandas as pd
import seaborn as sns
```

```
dt = pd.read_csv('/content/details.csv')
```

```
dt.info()
```

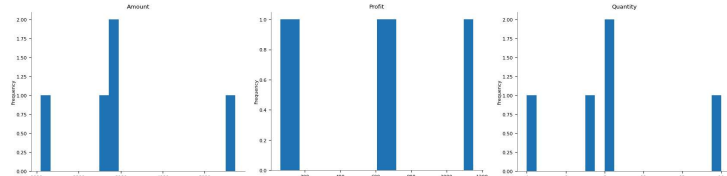
```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 1500 entries, 0 to 1499
Data columns (total 7 columns):
 #   Column          Non-Null Count  Dtype
---  -
 0   Order ID       1500 non-null  object
 1   Amount         1500 non-null  int64
 2   Profit         1500 non-null  int64
 3   Quantity       1500 non-null  int64
 4   Category       1500 non-null  object
 5   Sub-Category   1500 non-null  object
 6   PaymentMode    1500 non-null  object
dtypes: int64(3), object(4)
memory usage: 82.2+ KB
```

```
dt.head()
```

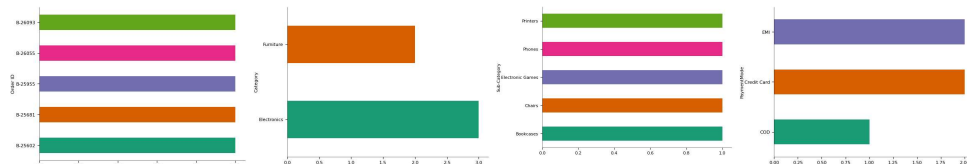


	Order ID	Amount	Profit	Quantity	Category	Sub-Category	PaymentMode
0	B-25681	1096	658	7	Electronics	Electronic Games	COD
1	B-26055	5729	64	14	Furniture	Chairs	EMI
2	B-25955	2927	146	8	Furniture	Bookcases	EMI
3	B-26093	2847	712	8	Electronics	Printers	Credit Card
4	B-25602	2617	1151	4	Electronics	Phones	Credit Card

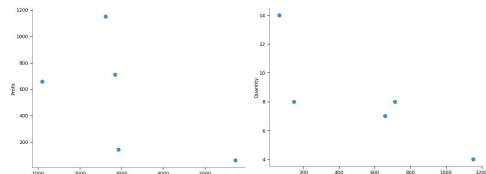
Distributions



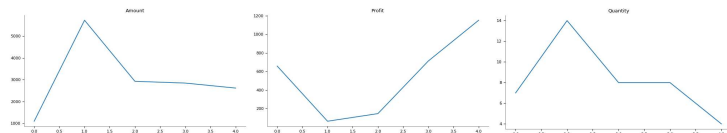
Categorical distributions



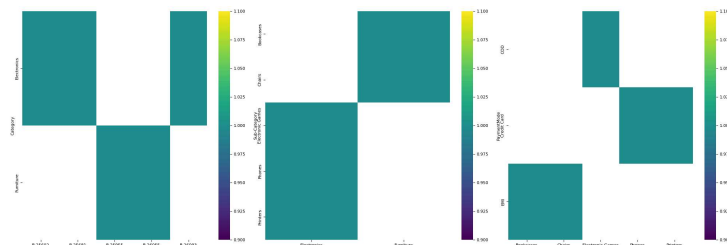
2-d distributions



Values



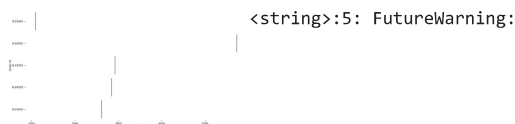
2-d categorical distributions



Faceted distributions

<string>:5: FutureWarning:

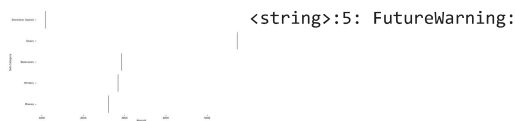
Passing `palette` without assigning `hue` is deprecated and will be removed in v0.14.0. Assign the `y` variable to `hue` and set `legend`



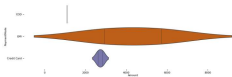
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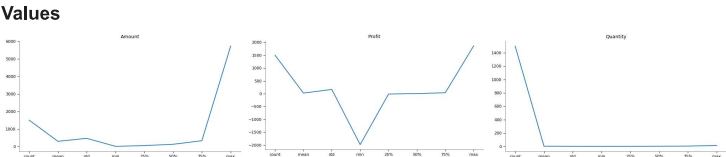
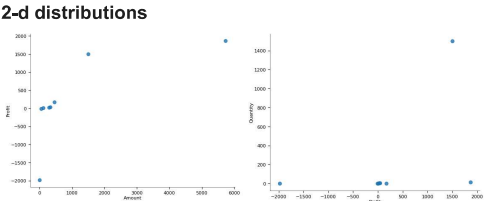
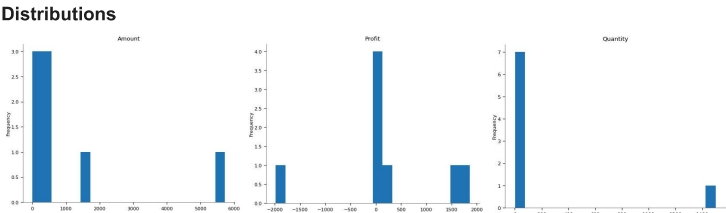


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```
dt.describe()
```

	Amount	Profit	Quantity
count	1500.000000	1500.000000	1500.000000
mean	291.847333	24.64200	3.743333
std	461.924620	168.55881	2.184942
min	4.000000	-1981.00000	1.000000
25%	47.750000	-12.00000	2.000000
50%	122.000000	8.00000	3.000000
75%	326.250000	38.00000	5.000000
max	5729.000000	1864.00000	14.000000



```
dt.columns
```

```
Index(['Order ID', 'Amount', 'Profit', 'Quantity', 'Category', 'Sub-Category',  
      'PaymentMode'],  
      dtype='object')
```

```
dt.dtypes
```

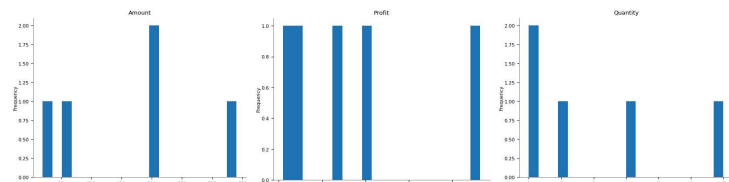
	0
Order ID	object
Amount	int64
Profit	int64
Quantity	int64
Category	object
Sub-Category	object
PaymentMode	object
dtype:	object

```
dt.sample(n=5)
```

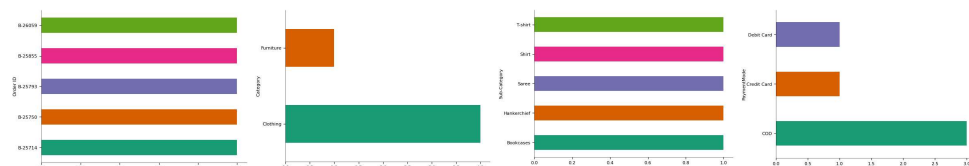


	Order ID	Amount	Profit	Quantity	Category	Sub-Category	PaymentMode
1372	B-26059	20	6	1	Clothing	T-shirt	COD
445	B-25793	60	-12	4	Clothing	Hankerchief	Debit Card
455	B-25750	199	-18	2	Clothing	Saree	COD
945	B-25855	197	73	1	Furniture	Bookcases	COD
393	B-25714	340	20	7	Clothing	Shirt	Credit Card

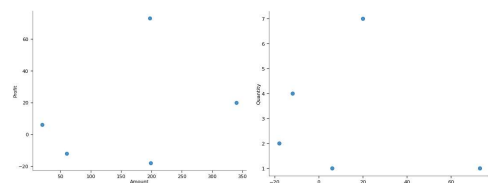
Distributions



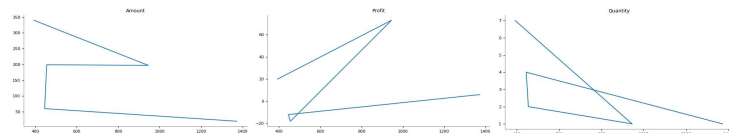
Categorical distributions



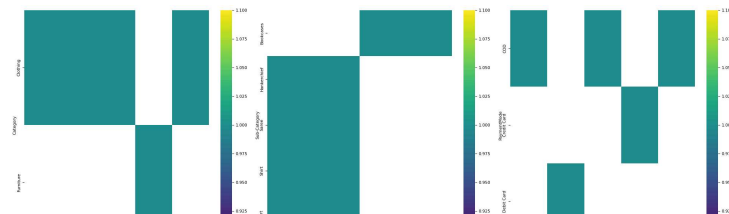
2-d distributions



Values



2-d categorical distributions

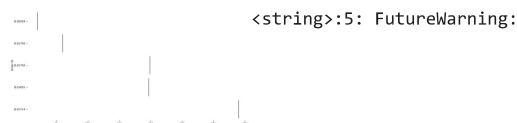


```
dt.groupby('Category').head(3)
```

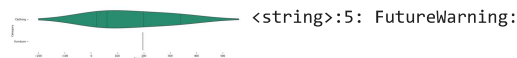
Faceted distributions

```
<string>:5: FutureWarning:
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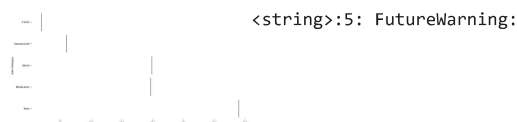
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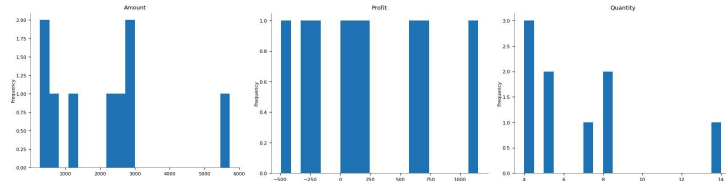
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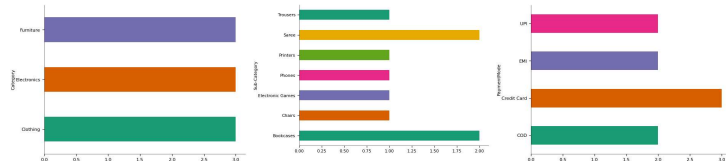
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	Order ID	Amount	Profit	Quantity	Category	Sub-Category	PaymentMode
0	B-25681	1096	658	7	Electronics	Electronic Games	COD
1	B-26055	5729	64	14	Furniture	Chairs	EMI
2	B-25955	2927	146	8	Furniture	Bookcases	EMI
3	B-26093	2847	712	8	Electronics	Printers	Credit Card
4	B-25602	2617	1151	4	Electronics	Phones	Credit Card
5	B-25881	2244	247	4	Clothing	Trousers	Credit Card
6	B-25696	275	-275	4	Clothing	Saree	COD
7	B-25687	387	-213	5	Clothing	Saree	UPI
13	B-25756	729	-492	5	Furniture	Bookcases	UPI

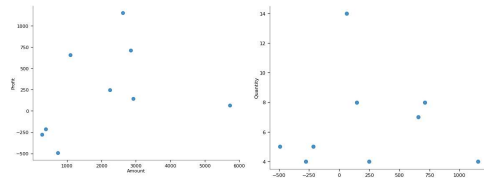
Distributions



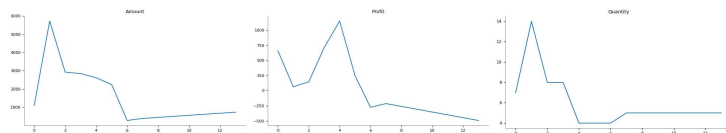
Categorical distributions



2-d distributions



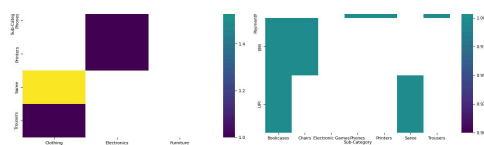
Values



2-d categorical distributions



```
dt.groupby('Sub-Category').head(2)
```



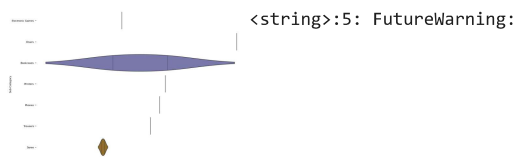
Faceted distributions

```
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	Order ID	Amount	Profit	Quantity	Category	Sub-Category	PaymentMode
0	B-25681	1096	658	7	Electronics	Electronic Games	COD
1	B-26055	5729	64	14	Furniture	Chairs	EMI
2	B-25955	2927	146	8	Furniture	Bookcases	EMI
3	B-26093	2847	712	8	Electronics	Printers	Credit Card
4	B-25602	2617	1151	4	Electronics	Phones	Credit Card
5	B-25881	2244	247	4	Clothing	Trousers	Credit Card
6	B-25696	275	-275	4	Clothing	Saree	COD
7	B-25687	387	-213	5	Clothing	Saree	UPI
8	B-25643	50	-44	2	Clothing	Hankerchief	UPI
9	B-25851	135	-54	5	Clothing	Kurti	COD
10	B-25703	231	-190	9	Clothing	Hankerchief	COD
11	B-25887	2125	-234	6	Electronics	Printers	EMI
12	B-25923	3873	-891	6	Electronics	Phones	Credit Card
13	B-25756	729	-492	5	Furniture	Bookcases	UPI
17	B-26095	6	1	1	Clothing	Kurti	UPI
18	B-25853	2093	721	5	Furniture	Chairs	Credit Card
19	B-25735	7	-1	2	Clothing	Skirt	UPI
20	B-25910	1622	-624	5	Furniture	Tables	Credit Card
24	B-26001	8	2	2	Clothing	Skirt	UPI
28	B-25686	1829	-56	6	Furniture	Tables	Credit Card
31	B-25816	391	113	8	Clothing	Stole	COD
36	B-25710	10	-1	1	Clothing	Leggings	UPI
39	B-25723	12	-7	2	Clothing	Leggings	UPI
40	B-25755	1709	564	3	Clothing	Trousers	Credit Card
41	B-25788	12	3	1	Clothing	Stole	UPI
46	B-25943	1547	340	6	Electronics	Accessories	EMI
54	B-25801	15	-2	1	Clothing	T-shirt	Debit Card
63	B-25762	1316	527	7	Electronics	Electronic Games	Credit Card
70	B-26006	1301	573	5	Electronics	Accessories	Credit Card
107	B-25986	749	-307	7	Furniture	Furnishings	COD
120	B-25750	19	-1	1	Clothing	Shirt	Debit Card

```
dt.groupby('PaymentMode').head(1)
```

	Order ID	Amount	Profit	Quantity	Category	Sub-Category	PaymentMode
0	B-25681	1096	658	7	Electronics	Electronic Games	COD
1	B-26055	5729	64	14	Furniture	Chairs	EMI
3	B-26093	2847	712	8	Electronics	Printers	Credit Card
7	B-25687	387	-213	5	Clothing	Saree	UPI
54	B-25801	15	-2	1	Clothing	T-shirt	Debit Card

```
upi_group = dt[dt['PaymentMode'] == 'UPI']
```

```
print(upi_group)
```

	Order ID	Amount	Profit	Quantity	Category	Sub-Category	\
7	B-25687	387	-213	5	Clothing	Saree	
8	B-25643	50	-44	2	Clothing	Hankerchief	
13	B-25756	729	-492	5	Furniture	Bookcases	

15	B-25655	6	-3	1	Clothing	Hankerchief
17	B-26095	6	1	1	Clothing	Kurti
...
1466	B-26070	14	7	2	Clothing	Hankerchief
1471	B-25950	13	4	1	Clothing	Leggings
1480	B-25862	2061	701	5	Furniture	Bookcases
1482	B-25823	2103	322	8	Electronics	Electronic Games
1489	B-25969	2452	191	7	Furniture	Bookcases


PaymentMode

7	UPI
8	UPI
13	UPI
15	UPI
17	UPI
...	...
1466	UPI
1471	UPI
1480	UPI
1482	UPI
1489	UPI

[331 rows x 7 columns]

```
emi_group = dt[dt['PaymentMode'] == 'EMI']
```

```
print(emi_group)
```



	Order ID	Amount	Profit	Quantity	Category	Sub-Category \
1	B-26055	5729	64	14	Furniture	Chairs
2	B-25955	2927	146	8	Furniture	Bookcases
11	B-25887	2125	-234	6	Electronics	Printers
30	B-26048	1461	202	5	Furniture	Tables
37	B-25797	1630	802	5	Furniture	Tables