In [2]:
```
import numpy as np # linear algebra
import pandas as pd # data processing, CSV file I/O (e.g. pd.read_csv)
import seaborn as sns
sns.set(color_codes=True)
import matplotlib.pyplot as plt
import matplotlib as mpl

%matplotlib inline
```

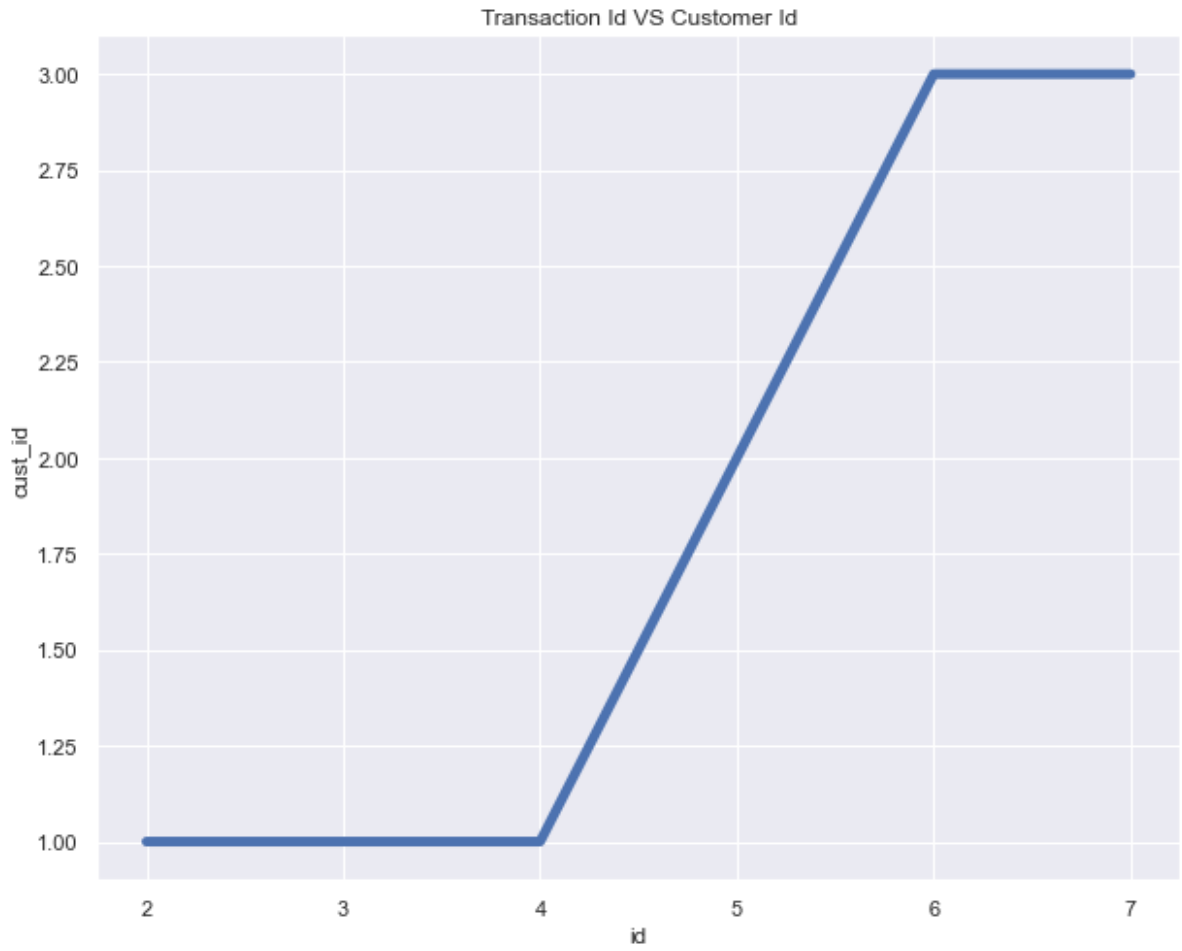
In [3]:
```
df = pd.read_csv('C:/Users/Ezra Muir/Documents/Training-Work/Python/Nov_Learn/SQL T
df
```

Out[3]:

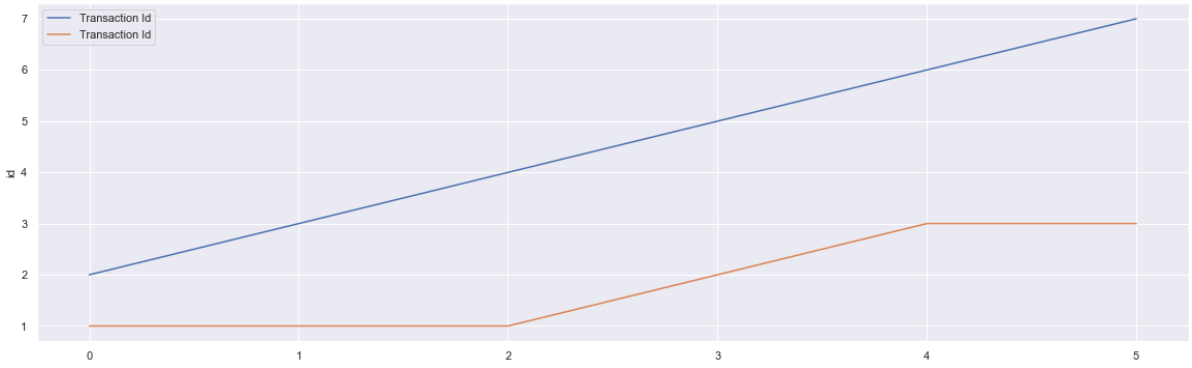
	id	tran_dt	tran_amt	cust_id	acc_id	loan_id
0	2	2021-12-31	100001.0	1	1	NaN
1	3	2022-02-23	6000.0	1	1	NaN
2	4	2015-06-19	700.0	1	1	NaN
3	5	2022-08-31	90.0	2	2	2.0
4	6	2020-10-30	300.0	3	3	2.0
5	7	2015-06-25	200.0	3	3	2.0

Line Charts

In [4]:
```
plt.figure(figsize=(10,8))
sns.lineplot(x="id",y="cust_id",data=df,linewidth = 5)
plt.title("Transaction Id VS Customer Id")
plt.show()
```



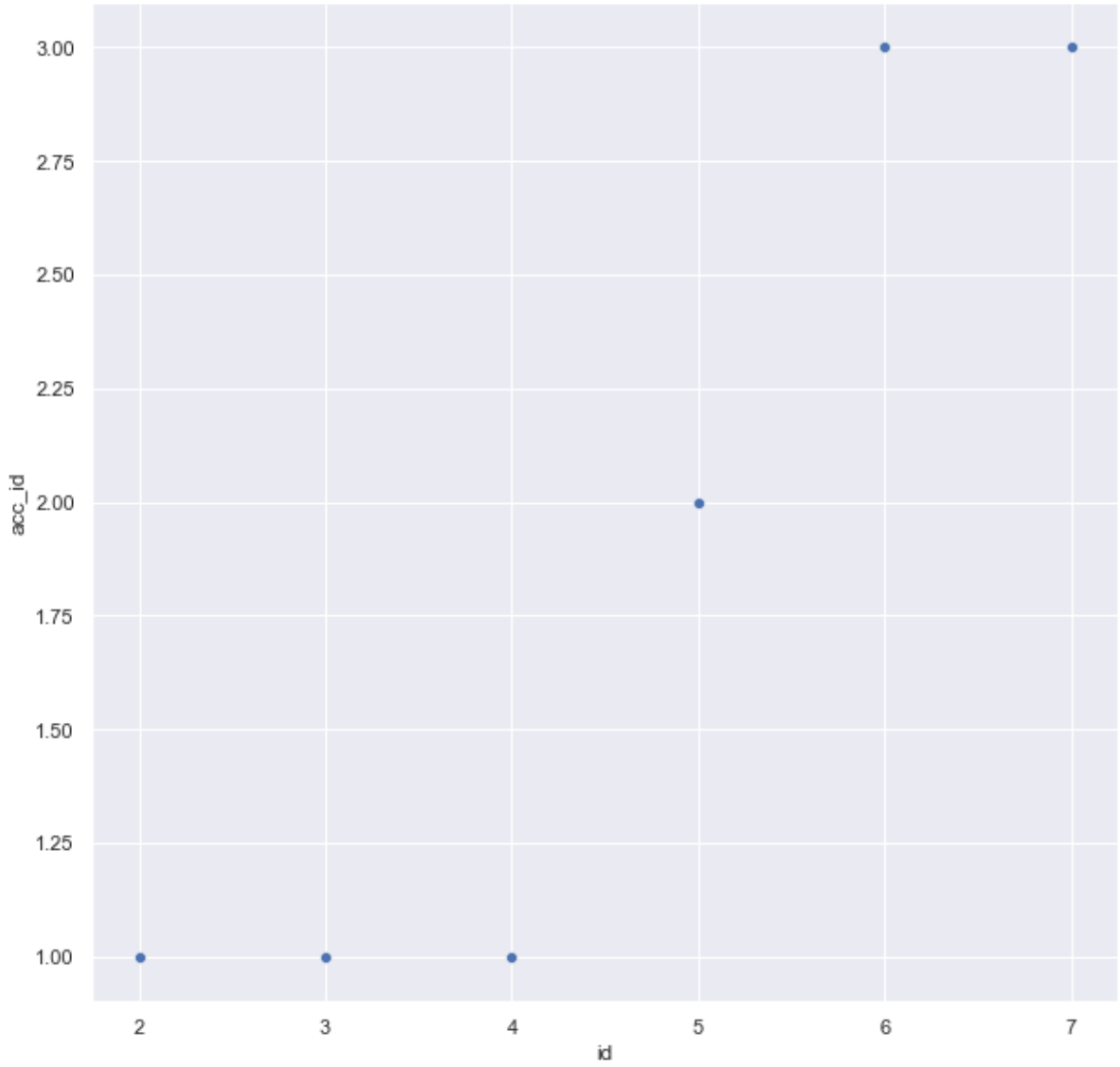
In [5]:
```
plt.figure(figsize=(20,6))
sns.lineplot(data=df['id'],linewidth = 1.5 , label = 'Transaction Id')
sns.lineplot(data=df['acc_id'],linewidth = 1.5 , label = 'Transaction Id')
plt.show()
```



Scatter Plots

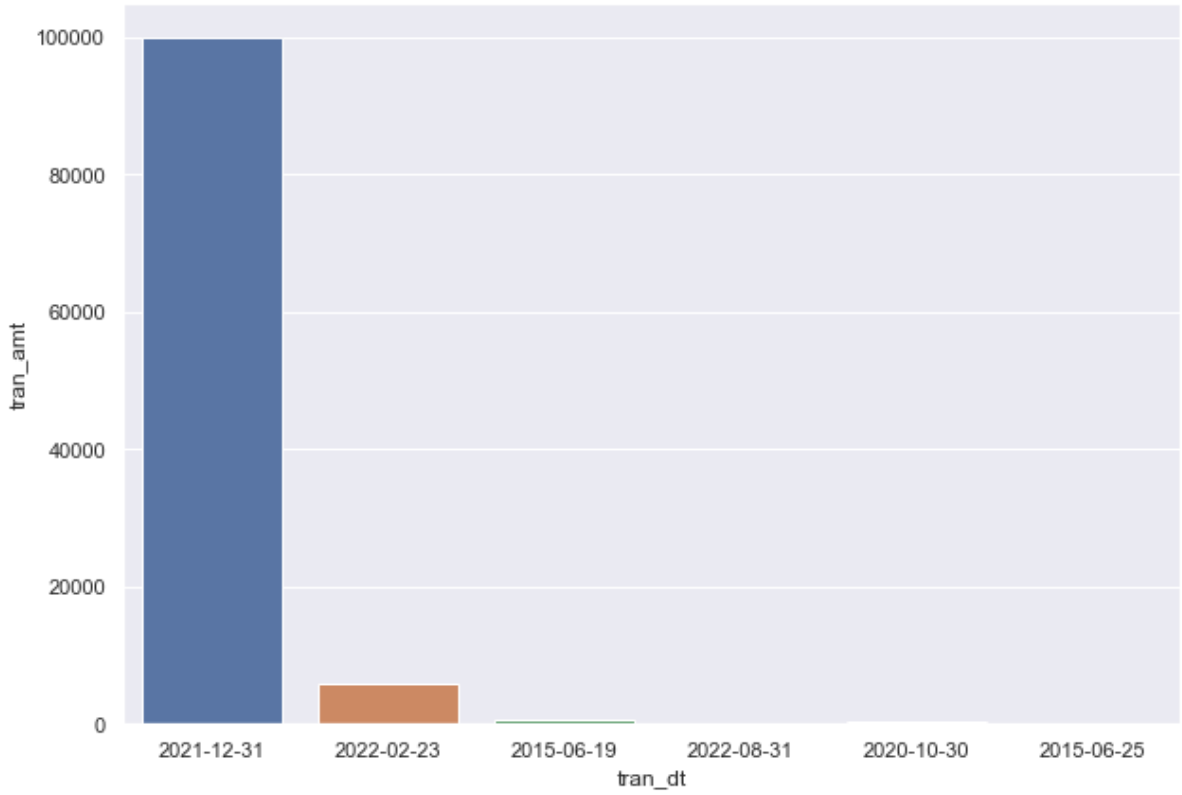
In [6]:
```
plt.figure(figsize=(10,10))
sns.scatterplot(x='id',y='acc_id',data=df)
plt.show()

# plt.figure(figsize=(10,10))
```

```
# sns.scatterplot(x='id',y='acc_id',data=df, color='#FF0000')
# plt.show()
```

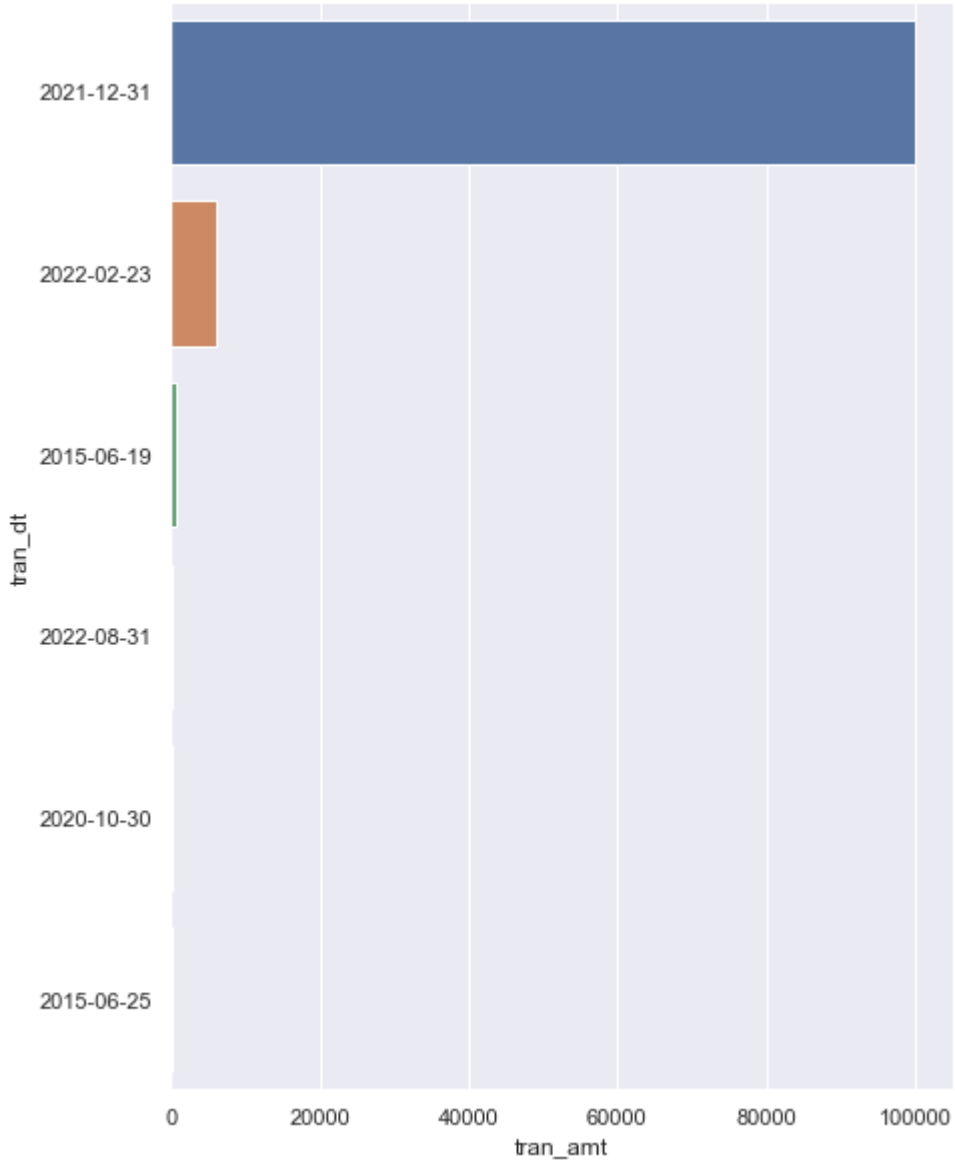


Bar Plot

In [7]:
```
plt.figure(figsize=(10,7))
# sns.barplot(df['tran_dt'], df['tran_amt']) # Have warning
sns.barplot(data=df, x='tran_dt', y='tran_amt')
plt.show()
```

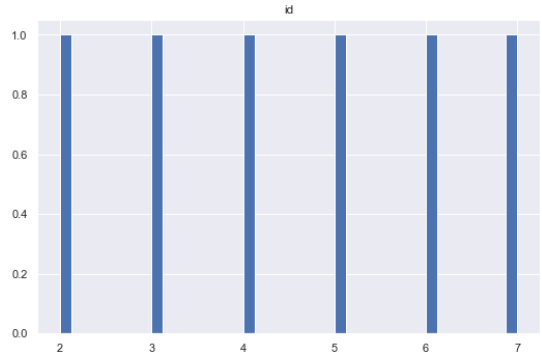


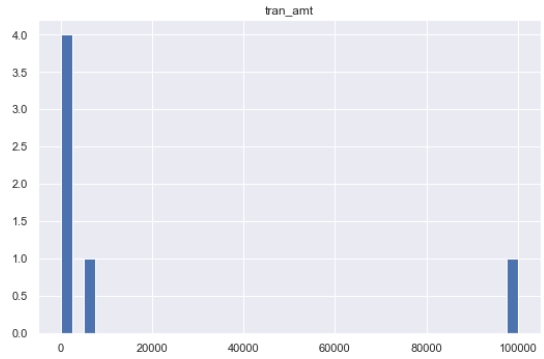
In [8]:
```
# Horizontal Bar plot
plt.figure(figsize=(7,10))
sns.barplot(data=df, x='tran_amt', y='tran_dt')
plt.show()
```

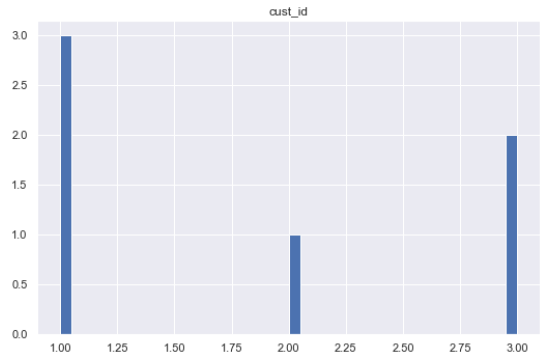


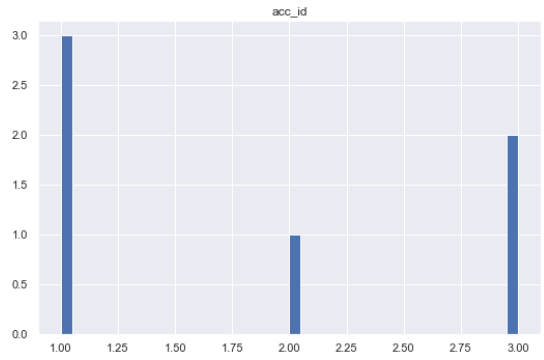
Histogram

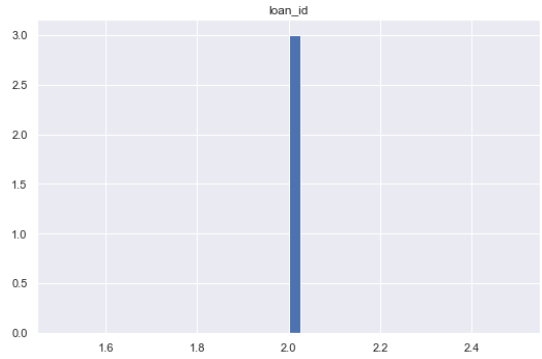
In [9]:
```
df.hist(bins=40 , figsize=(20,20)) #Pandas Hist function
plt.show()
```


id
1.0
0.8
0.6
0.4
0.2
0.0
2
3
4
5
6
7


tran_amt
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
20000
40000
60000
80000
100000


cust_id
3.0
2.5
2.0
1.5
1.0
0.5
0.0
1.00
1.25
1.50
1.75
2.00
2.25
2.50
2.75
3.00


acc_id
3.0
2.5
2.0
1.5
1.0
0.5
0.0
1.00
1.25
1.50
1.75
2.00
2.25
2.50
2.75
3.00


loan_id
3.0
2.5
2.0
1.5
1.0
0.5
0.0
1.6
1.8
2.0
2.2
2.4

In [ ]: