```
In [64]:  #WEEK 2 START
          import pandas as pd
          import matplotlib.pyplot as plt
          import seaborn as sns
          from sklearn.model_selection import train_test_split
```

```
In [2]:   #create pandas DataFrame for financial anomaly data
          financial_df = pd.read_csv("financial_anomaly_data.csv")
```

```
In [3]:   #print first 5 columns of DataFrame
          financial_df.head(5)
```

Out[3]:

	Timestamp	TransactionID	AccountID	Amount	Merchant	TransactionType	Location
0	01-01-2023 08:00	TXN1127	ACC4	95071.92	MerchantH	Purchase	Tokyo
1	01-01-2023 08:01	TXN1639	ACC10	15607.89	MerchantH	Purchase	London
2	01-01-2023 08:02	TXN872	ACC8	65092.34	MerchantE	Withdrawal	London
3	01-01-2023 08:03	TXN1438	ACC6	87.87	MerchantE	Purchase	London
4	01-01-2023 08:04	TXN1338	ACC6	716.56	MerchantI	Purchase	Los Angeles

```
In [4]:   #print class, RangeIndex, columns, non-null count, data type, and memory usage information
          financial_df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 217441 entries, 0 to 217440
Data columns (total 7 columns):
 #   Column           Non-Null Count   Dtype
---  ------           --------------   -----
 0   Timestamp        216960 non-null  object
 1   TransactionID    216960 non-null  object
 2   AccountID        216960 non-null  object
 3   Amount           216960 non-null  float64
 4   Merchant         216960 non-null  object
 5   TransactionType  216960 non-null  object
 6   Location         216960 non-null  object
dtypes: float64(1), object(6)
memory usage: 11.6+ MB
```

```
In [5]:   #print shape of DataFrame
          financial_df.shape
```

Out[5]: (217441, 7)

```
In [6]:   #print sum of null occurrences of each variable in DataFrame
          print(financial_df.isnull().sum())
```

```
Timestamp          481
TransactionID      481
AccountID          481
Amount             481
Merchant           481
TransactionType    481
Location           481
dtype: int64
```

```
In [7]:   #create a new DataFrame excluding null occurrences
          new_financial_df = financial_df.dropna()
```

```
In [8]:   #print shape of new DataFrame
          new_financial_df.shape
```

Out[8]: (216960, 7)

```
In [9]:   #verify that null occurrences were handled properly
          print(new_financial_df.isnull().sum())
```

```
Timestamp          0
TransactionID      0
AccountID          0
Amount             0
Merchant           0
TransactionType    0
Location           0
dtype: int64
```

```
In [10]:  #print number of unique occurrences of each variable in DataFrame
          print(f"Number of unique Timestamp: {new_financial_df['Timestamp'].nunique()}")
          print(f"Number of unique TransactionID: {new_financial_df['TransactionID'].nunique()}")
```

```python
print(f"Number of unique AccountID: {new_financial_df['AccountID'].nunique()}")
print(f"Number of unique Amount: {new_financial_df['Amount'].nunique()}")
print(f"Number of unique Merchant: {new_financial_df['Merchant'].nunique()}")
print(f"Number of unique TransactionType: {new_financial_df['TransactionType'].nunique()}")
print(f"Number of unique Location: {new_financial_df['Location'].nunique()}")
```

```
Number of unique Timestamp: 216960
Number of unique TransactionID: 1999
Number of unique AccountID: 15
Number of unique Amount: 214687
Number of unique Merchant: 10
Number of unique TransactionType: 3
Number of unique Location: 5
```

In [11]:
```python
#introduce new variables to DataFrame for analysis of certain variables' interactions
new_financial_df['AccountID/Merchant'] = new_financial_df['AccountID'].astype(str) + '_' + new_financial_df['Me
new_financial_df['AccountID/TransactionID'] = new_financial_df['AccountID'].astype(str) + '_' + new_financial_d
new_financial_df['AccountID/Merchant/TransactionID'] = new_financial_df['AccountID'].astype(str) + '_' + new_fin
new_financial_df['TransactionType/Merchant'] = new_financial_df['TransactionType'].astype(str) + '_' + new_finan
new_financial_df['Location/TransactionType'] = new_financial_df['Location'].astype(str) + '_' + new_financial_d
new_financial_df['Merchant/Location'] = new_financial_df['Merchant'].astype(str) + '_' + new_financial_df['Loca
```

```
C:\Users\brady\AppData\Local\Temp\ipykernel_23724\3560603646.py:2: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#retu
rning-a-view-versus-a-copy
  new_financial_df['AccountID/Merchant'] = new_financial_df['AccountID'].astype(str) + '_' + new_financial_df['M
erchant']
C:\Users\brady\AppData\Local\Temp\ipykernel_23724\3560603646.py:3: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#retu
rning-a-view-versus-a-copy
  new_financial_df['AccountID/TransactionID'] = new_financial_df['AccountID'].astype(str) + '_' + new_financial_
df['TransactionID']
C:\Users\brady\AppData\Local\Temp\ipykernel_23724\3560603646.py:4: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#retu
rning-a-view-versus-a-copy
  new_financial_df['AccountID/Merchant/TransactionID'] = new_financial_df['AccountID'].astype(str) + '_' + new_f
inancial_df['Merchant'] + '_' + new_financial_df['TransactionID']
C:\Users\brady\AppData\Local\Temp\ipykernel_23724\3560603646.py:5: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#retu
rning-a-view-versus-a-copy
  new_financial_df['TransactionType/Merchant'] = new_financial_df['TransactionType'].astype(str) + '_' + new_fin
ancial_df['Merchant']
C:\Users\brady\AppData\Local\Temp\ipykernel_23724\3560603646.py:6: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#retu
rning-a-view-versus-a-copy
  new_financial_df['Location/TransactionType'] = new_financial_df['Location'].astype(str) + '_' + new_financial_
df['TransactionType']
C:\Users\brady\AppData\Local\Temp\ipykernel_23724\3560603646.py:7: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#retu
rning-a-view-versus-a-copy
  new_financial_df['Merchant/Location'] = new_financial_df['Merchant'].astype(str) + '_' + new_financial_df['Loc
ation']
```

In [12]:
```python
#verify that new variables have been created successfully
new_financial_df.head(5)
```

	Timestamp	TransactionID	AccountID	Amount	Merchant	TransactionType	Location	AccountID/Merchant	AccountID/Transact
0	01-01-2023 08:00	TXN1127	ACC4	95071.92	MerchantH	Purchase	Tokyo	ACC4_MerchantH	ACC4_TXN
1	01-01-2023 08:01	TXN1639	ACC10	15607.89	MerchantH	Purchase	London	ACC10_MerchantH	ACC10_TXN
2	01-01-2023 08:02	TXN872	ACC8	65092.34	MerchantE	Withdrawal	London	ACC8_MerchantE	ACC8_TX
3	01-01-2023 08:03	TXN1438	ACC6	87.87	MerchantE	Purchase	London	ACC6_MerchantE	ACC6_TXN
4	01-01-2023 08:04	TXN1338	ACC6	716.56	MerchantI	Purchase	Los Angeles	ACC6_MerchantI	ACC6_TXN

In [13]:
```python
#convert Timestamp variable to a DateTime object
new_financial_df['Timestamp'] = pd.to_datetime(new_financial_df['Timestamp'], format='%d-%m-%Y %H:%M')
```

```
C:\Users\brady\AppData\Local\Temp\ipykernel_23724\585645809.py:2: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#retu
rning-a-view-versus-a-copy
  new_financial_df['Timestamp'] = pd.to_datetime(new_financial_df['Timestamp'], format='%d-%m-%Y %H:%M')
```

In [14]:
```python
#create distinct features for minute/hour of the day, day of the week, and month
new_financial_df['Minute'] = new_financial_df['Timestamp'].dt.minute
new_financial_df['Hour'] = new_financial_df['Timestamp'].dt.hour
new_financial_df['Day'] = new_financial_df['Timestamp'].dt.dayofweek
new_financial_df['Month'] = new_financial_df['Timestamp'].dt.month
```

```
C:\Users\brady\AppData\Local\Temp\ipykernel_23724\2535565269.py:2: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#retu
rning-a-view-versus-a-copy
  new_financial_df['Minute'] = new_financial_df['Timestamp'].dt.minute
C:\Users\brady\AppData\Local\Temp\ipykernel_23724\2535565269.py:3: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#retu
rning-a-view-versus-a-copy
  new_financial_df['Hour'] = new_financial_df['Timestamp'].dt.hour
C:\Users\brady\AppData\Local\Temp\ipykernel_23724\2535565269.py:4: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#retu
rning-a-view-versus-a-copy
  new_financial_df['Day'] = new_financial_df['Timestamp'].dt.dayofweek
C:\Users\brady\AppData\Local\Temp\ipykernel_23724\2535565269.py:5: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#retu
rning-a-view-versus-a-copy
  new_financial_df['Month'] = new_financial_df['Timestamp'].dt.month
```
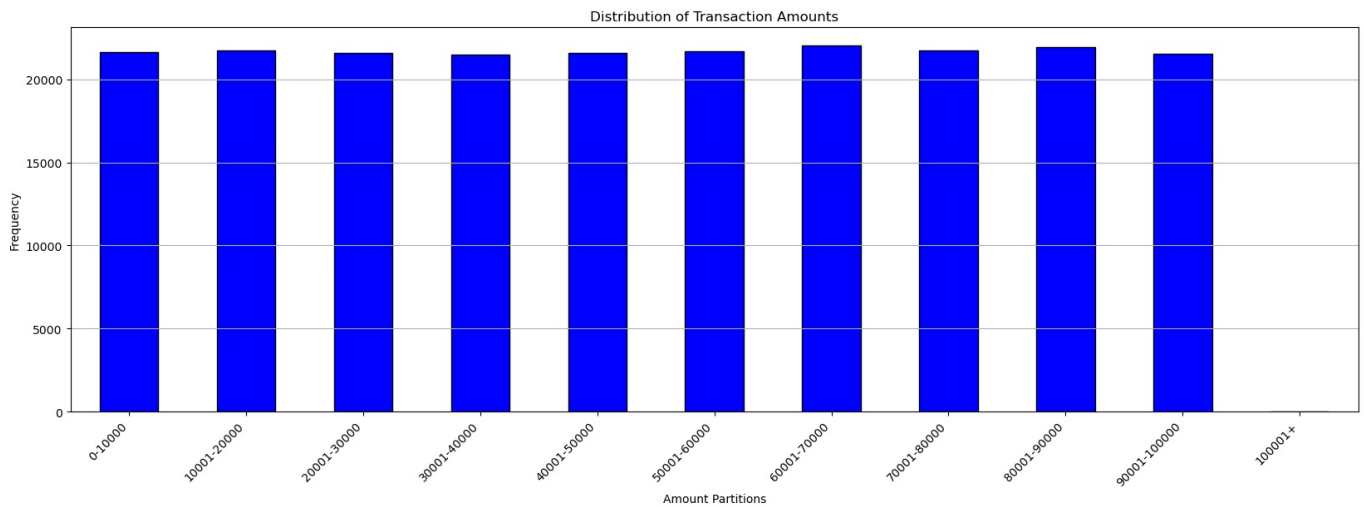
In [15]:
```python
#verify again that new variables have been created successfully
new_financial_df.head(5)
```

Out[15]:

	Timestamp	TransactionID	AccountID	Amount	Merchant	TransactionType	Location	AccountID/Merchant	AccountID/Transact
0	2023-01-01 08:00:00	TXN1127	ACC4	95071.92	MerchantH	Purchase	Tokyo	ACC4_MerchantH	ACC4_TXN
1	2023-01-01 08:01:00	TXN1639	ACC10	15607.89	MerchantH	Purchase	London	ACC10_MerchantH	ACC10_TXN
2	2023-01-01 08:02:00	TXN872	ACC8	65092.34	MerchantE	Withdrawal	London	ACC8_MerchantE	ACC8_TX
3	2023-01-01 08:03:00	TXN1438	ACC6	87.87	MerchantE	Purchase	London	ACC6_MerchantE	ACC6_TXN
4	2023-01-01 08:04:00	TXN1338	ACC6	716.56	MerchantI	Purchase	Los Angeles	ACC6_MerchantI	ACC6_TXN

In [45]:
```python
#Divide amount variable into appropriately-sized partitions
```

```
bins = [0, 10000, 20000, 30000, 40000, 50000, 60000, 70000, 80000, 90000, 100000, float('inf')]
labels = ['0-10000', '10001-20000', '20001-30000', '30001-40000', '40001-50000', '50001-60000', '60001-70000',
new_financial_df['Amount_Partitions'] = pd.cut(new_financial_df['Amount'], bins=bins, labels=labels)
```
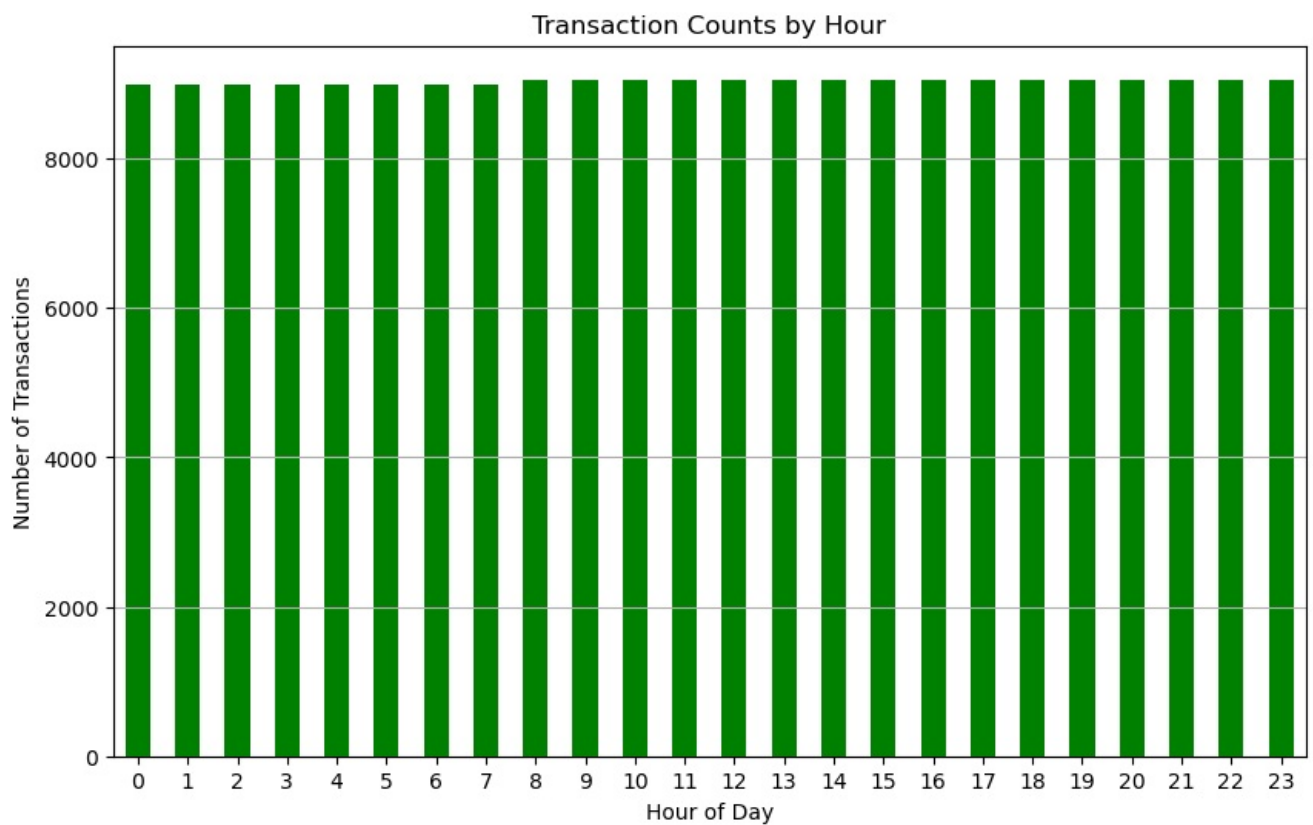
In [46]:
```python
#Construct Bar Graph for distribution of transaction in each amount partition
partition_counts = new_financial_df['Amount_Partitions'].value_counts().reindex(labels)

plt.figure(figsize=(20, 6))
partition_counts.plot(kind='bar', color='blue', edgecolor='black')
plt.title('Distribution of Transaction Amounts')
plt.xlabel('Amount Partitions')
plt.ylabel('Frequency')
plt.xticks(rotation=45, ha='right')
plt.grid(axis='y')
plt.show()
```
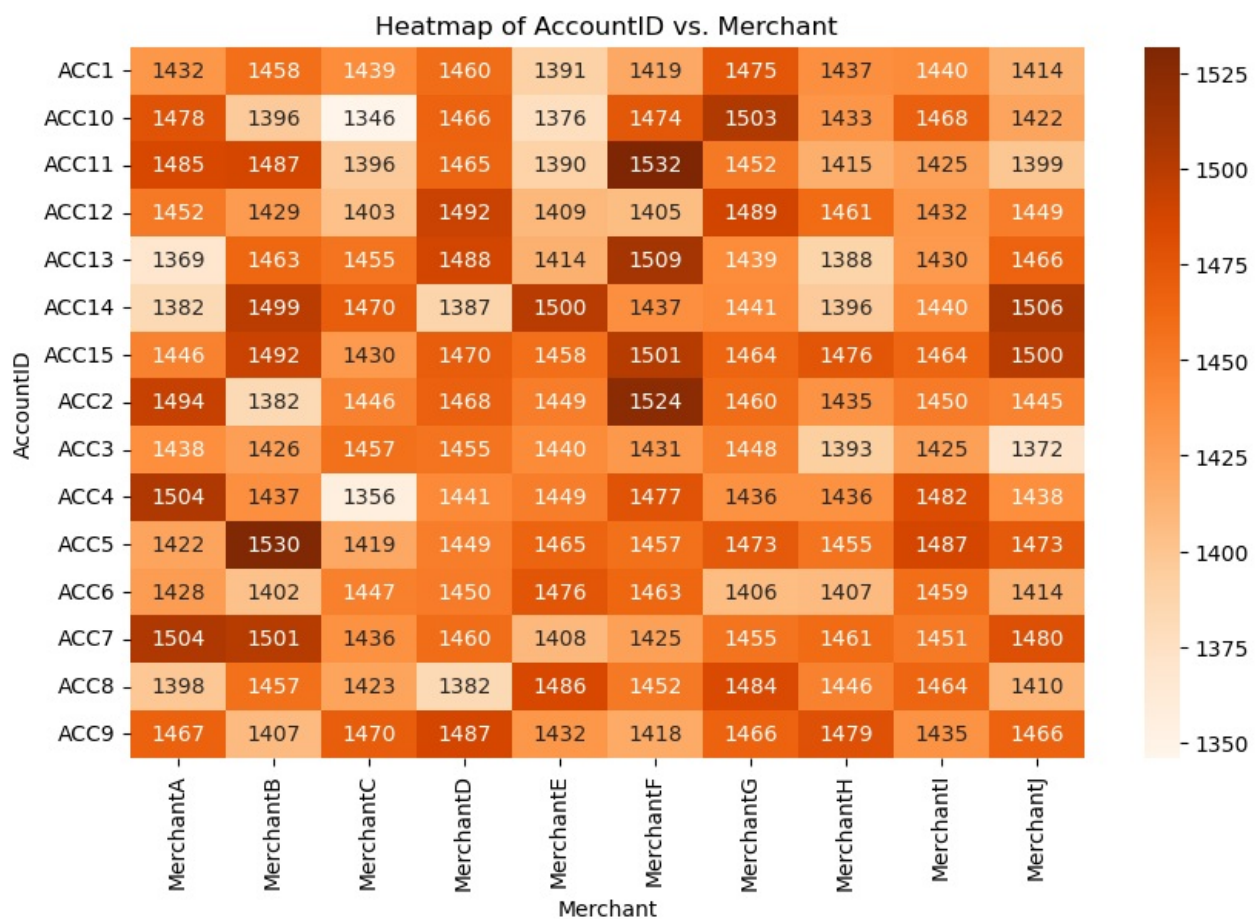

In [18]:
```python
#Construct bar graph for total number of transactions per hour
hour_counts = new_financial_df['Hour'].value_counts().sort_index()

plt.figure(figsize=(10, 6))
hour_counts.plot(kind='bar', color='green')
plt.title('Transaction Counts by Hour')
plt.xlabel('Hour of Day')
plt.ylabel('Number of Transactions')
plt.xticks(rotation=0)
plt.grid(axis='y')
plt.show()
```

Transaction Counts by Hour


```
In [19]: #Construct heat map to visualize total amounts of each combination of AccountID and Merchant (150 combinations)
         pivot_table = pd.crosstab(new_financial_df['AccountID'], new_financial_df['Merchant'])

         plt.figure(figsize=(10, 6))
         sns.heatmap(pivot_table, annot=True, cmap='Oranges', fmt='d')
         plt.title('Heatmap of AccountID vs. Merchant')
         plt.xlabel('Merchant')
         plt.ylabel('AccountID')
         plt.show()
```

Heatmap of AccountID vs. Merchant


```
In [20]: #print a sample of the first 10 values of the cleaned dataset with new variables added
         new_financial_df.head(10)
```

Out[20]:

	Timestamp	TransactionID	AccountID	Amount	Merchant	TransactionType	Location	AccountID/Merchant	AccountID/Transact
0	2023-01-01 08:00:00	TXN1127	ACC4	95071.92	MerchantH	Purchase	Tokyo	ACC4_MerchantH	ACC4_TXN
1	2023-01-01 08:01:00	TXN1639	ACC10	15607.89	MerchantH	Purchase	London	ACC10_MerchantH	ACC10_TXN
2	2023-01-01 08:02:00	TXN872	ACC8	65092.34	MerchantE	Withdrawal	London	ACC8_MerchantE	ACC8_TX
3	2023-01-01 08:03:00	TXN1438	ACC6	87.87	MerchantE	Purchase	London	ACC6_MerchantE	ACC6_TXN
4	2023-01-01 08:04:00	TXN1338	ACC6	716.56	MerchantI	Purchase	Los Angeles	ACC6_MerchantI	ACC6_TXN
5	2023-01-01 08:05:00	TXN1083	ACC15	13957.99	MerchantC	Transfer	London	ACC15_MerchantC	ACC15_TXN
6	2023-01-01 08:06:00	TXN832	ACC9	4654.58	MerchantC	Transfer	Tokyo	ACC9_MerchantC	ACC9_TX
7	2023-01-01 08:07:00	TXN841	ACC7	1336.36	MerchantI	Withdrawal	San Francisco	ACC7_MerchantI	ACC7_TX
8	2023-01-01 08:08:00	TXN777	ACC10	9776.23	MerchantD	Transfer	London	ACC10_MerchantD	ACC10_TX
9	2023-01-01 08:09:00	TXN1479	ACC12	49522.74	MerchantC	Withdrawal	New York	ACC12_MerchantC	ACC12_TXN

In [21]:
```python
#print class, RangeIndex, columns, non-null count, data type, and memory usage information for the updated DataF
new_financial_df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
Index: 216960 entries, 0 to 216959
Data columns (total 18 columns):
 #   Column                        Non-Null Count   Dtype
---  ------                        --------------   -----
 0   Timestamp                     216960 non-null  datetime64[ns]
 1   TransactionID                 216960 non-null  object
 2   AccountID                     216960 non-null  object
 3   Amount                        216960 non-null  float64
 4   Merchant                      216960 non-null  object
 5   TransactionType               216960 non-null  object
 6   Location                      216960 non-null  object
 7   AccountID/Merchant            216960 non-null  object
 8   AccountID/TransactionID       216960 non-null  object
 9   AccountID/Merchant/TransactionID  216960 non-null  object
 10  TransactionType/Merchant      216960 non-null  object
 11  Location/TransactionType      216960 non-null  object
 12  Merchant/Location             216960 non-null  object
 13  Minute                        216960 non-null  int32
 14  Hour                          216960 non-null  int32
 15  Day                           216960 non-null  int32
 16  Month                         216960 non-null  int32
 17  Amount_Partitions             216960 non-null  category
dtypes: category(1), datetime64[ns](1), float64(1), int32(4), object(11)
memory usage: 26.7+ MB
```

In [22]:
```python
#print number of unique occurrences of newly created variables
print(f"Number of unique AccountID/Merchant: {new_financial_df['AccountID/Merchant'].nunique()}")
print(f"Number of unique AccountID/TransactionID: {new_financial_df['AccountID/TransactionID'].nunique()}")
print(f"Number of unique AccountID/Merchant/TransactionID: {new_financial_df['AccountID/Merchant/TransactionID'
print(f"Number of unique TransactionType/Merchant: {new_financial_df['TransactionType/Merchant'].nunique()}")
print(f"Number of unique Location/TransactionType: {new_financial_df['Location/TransactionType'].nunique()}")
print(f"Number of unique Merchant/Location: {new_financial_df['Merchant/Location'].nunique()}")
print(f"Number of unique Minute: {new_financial_df['Minute'].nunique()}")
print(f"Number of unique Hour: {new_financial_df['Hour'].nunique()}")
print(f"Number of unique Day: {new_financial_df['Day'].nunique()}")
print(f"Number of unique Month: {new_financial_df['Month'].nunique()}")
print(f"Number of unique Amount_Partitions: {new_financial_df['Amount_Partitions'].nunique()}")
```

```
Number of unique AccountID/Merchant: 150
Number of unique AccountID/TransactionID: 29967
Number of unique AccountID/Merchant/TransactionID: 154226
Number of unique TransactionType/Merchant: 30
Number of unique Location/TransactionType: 15
Number of unique Merchant/Location: 50
Number of unique Minute: 60
Number of unique Hour: 24
Number of unique Day: 7
Number of unique Month: 5
Number of unique Amount_Partitions: 11
```

In [23]:
```python
new_financial_df.to_csv('Week_2_Data.csv', index=False)
```
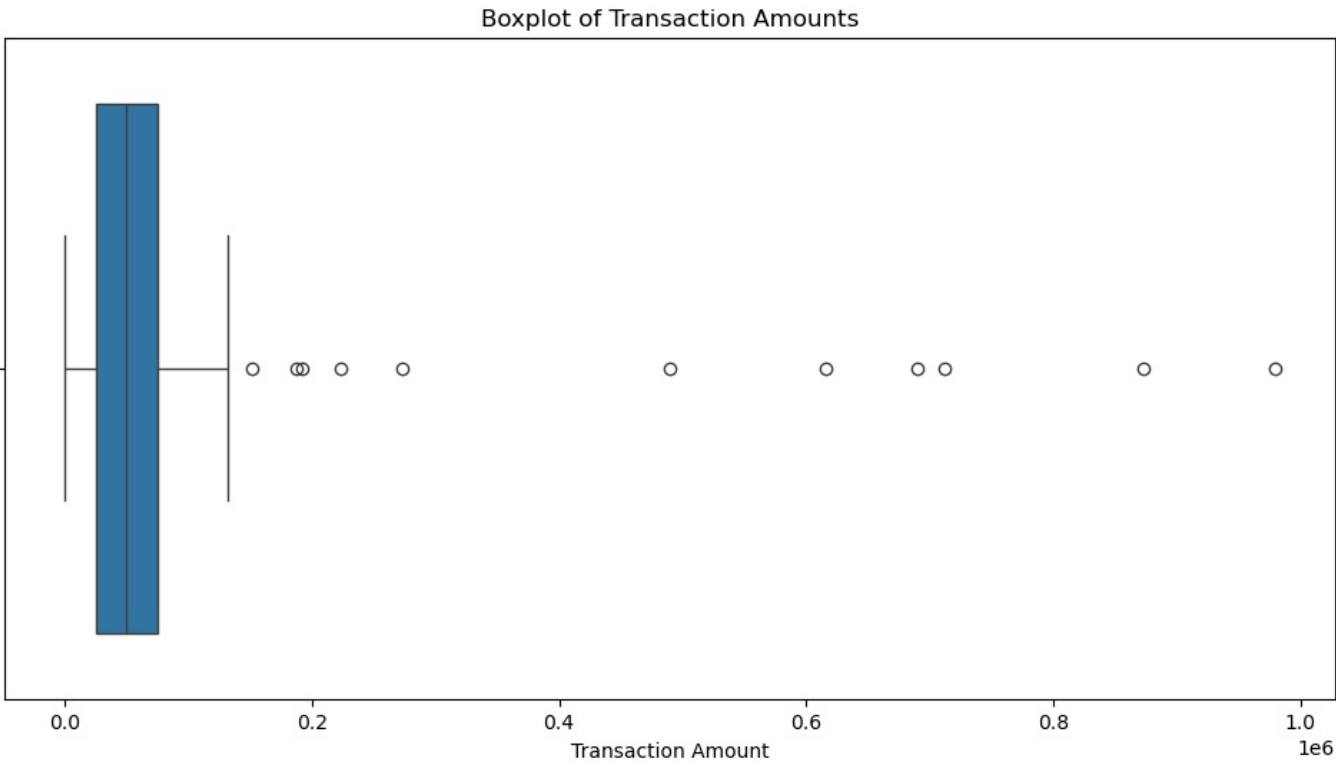
```
In [24]:    #WEEK 2 END

In [25]:    #WEEK 3 START

In [68]:    #describe numerical data to better understand these columns
            new_financial_df.describe()
```

Out[68]:

	Timestamp	Amount	Minute	Hour	Day	Month
count	216960	216960.000000	216960.000000	216960.000000	216960.000000	216960.000000
mean	2023-03-17 15:59:30	50090.025108	29.500000	11.517699	2.973451	3.017699
min	2023-01-01 08:00:00	10.510000	0.000000	0.000000	0.000000	1.000000
25%	2023-02-07 23:59:45	25061.242500	14.750000	6.000000	1.000000	2.000000
50%	2023-03-17 15:59:30	50183.980000	29.500000	12.000000	3.000000	3.000000
75%	2023-04-24 07:59:15	75080.460000	44.250000	18.000000	5.000000	4.000000
max	2023-05-31 23:59:00	978942.260000	59.000000	23.000000	6.000000	5.000000
std	NaN	29097.905016	17.318142	6.918770	2.008659	1.421907

```
In [63]:    plt.figure(figsize=(12, 6))
            sns.boxplot(x='Amount', data=new_financial_df)
            plt.title('Boxplot of Transaction Amounts')
            plt.xlabel('Transaction Amount')
            plt.show()
```


Boxplot of Transaction Amounts

```
In [69]:    #print counts of each unique value in each column of the DataFrame
            for column in new_financial_df.columns:
                column_count = new_financial_df[column].value_counts()
                print(column_count)

            Timestamp
            2023-01-01 08:00:00    1
            2023-04-11 18:57:00    1
            2023-04-11 18:33:00    1
            2023-04-11 18:34:00    1
            2023-04-11 18:35:00    1
                                  ..
            2023-02-20 13:23:00    1
            2023-02-20 13:24:00    1
            2023-02-20 13:25:00    1
            2023-02-20 13:26:00    1
            2023-05-31 23:59:00    1
            Name: count, Length: 216960, dtype: int64
            TransactionID
            TXN838     139
            TXN1768    139
            TXN1658    139
```

```
TXN1389       138
TXN340        137
              ...
TXN60          79
TXN891         78
TXN605         78
TXN201         73
TXN799         70
Name: count, Length: 1999, dtype: int64
AccountID
ACC15     14701
ACC5      14630
ACC7      14581
ACC2      14553
ACC9      14527
ACC14     14458
ACC4      14456
ACC11     14446
ACC12     14421
ACC13     14421
ACC8      14402
ACC1      14365
ACC10     14362
ACC6      14352
ACC3      14285
Name: count, dtype: int64
Amount
18010.00    3
34588.69    3
74109.74    3
86099.64    3
7309.50     3
            ..
56652.57    1
36336.36    1
49174.76    1
71557.91    1
65004.99    1
Name: count, Length: 214687, dtype: int64
Merchant
MerchantF     21924
MerchantG     21891
MerchantD     21820
MerchantB     21766
MerchantI     21752
MerchantA     21699
MerchantJ     21654
MerchantE     21543
MerchantH     21518
MerchantC     21393
Name: count, dtype: int64
TransactionType
Transfer      72793
Purchase      72235
Withdrawal    71932
Name: count, dtype: int64
Location
San Francisco     43613
New York          43378
London            43343
Los Angeles       43335
Tokyo             43291
Name: count, dtype: int64
AccountID/Merchant
ACC11_MerchantF     1532
ACC5_MerchantB      1530
ACC2_MerchantF      1524
ACC13_MerchantF     1509
ACC14_MerchantJ     1506
                     ...
ACC10_MerchantE     1376
ACC3_MerchantJ      1372
ACC13_MerchantA     1369
ACC4_MerchantC      1356
ACC10_MerchantC     1346
Name: count, Length: 150, dtype: int64
AccountID/TransactionID
ACC8_TXN239      22
ACC6_TXN154      20
ACC11_TXN1614    19
ACC11_TXN410     19
ACC1_TXN220      19
                 ..
```

```
ACC14_TXN20          1
ACC5_TXN938          1
ACC12_TXN1314        1
ACC3_TXN127          1
ACC2_TXN737          1
Name: count, Length: 29967, dtype: int64
AccountID/Merchant/TransactionID
ACC3_MerchantF_TXN1801      7
ACC11_MerchantJ_TXN1488     6
ACC11_MerchantE_TXN153      6
ACC14_MerchantJ_TXN1389     6
ACC15_MerchantG_TXN220      6
                           ..
ACC10_MerchantH_TXN286      1
ACC7_MerchantF_TXN1587      1
ACC5_MerchantA_TXN1930      1
ACC6_MerchantF_TXN1695      1
ACC3_MerchantG_TXN1807      1
Name: count, Length: 154226, dtype: int64
TransactionType/Merchant
Purchase_MerchantF       7399
Transfer_MerchantG       7354
Transfer_MerchantH       7342
Transfer_MerchantA       7332
Withdrawal_MerchantD     7323
Withdrawal_MerchantI     7308
Transfer_MerchantF       7302
Purchase_MerchantG       7298
Transfer_MerchantB       7291
Transfer_MerchantJ       7286
Purchase_MerchantB       7274
Purchase_MerchantA       7269
Purchase_MerchantD       7250
Transfer_MerchantD       7247
Withdrawal_MerchantG     7239
Transfer_MerchantI       7238
Withdrawal_MerchantF     7223
Purchase_MerchantE       7216
Purchase_MerchantJ       7216
Transfer_MerchantE       7209
Purchase_MerchantI       7206
Withdrawal_MerchantB     7201
Transfer_MerchantC       7192
Withdrawal_MerchantC     7164
Withdrawal_MerchantJ     7152
Withdrawal_MerchantE     7118
Withdrawal_MerchantH     7106
Withdrawal_MerchantA     7098
Purchase_MerchantH       7070
Purchase_MerchantC       7037
Name: count, dtype: int64
Location/TransactionType
London_Transfer               14653
San Francisco_Transfer        14610
Los Angeles_Transfer          14580
San Francisco_Withdrawal      14515
New York_Transfer             14510
Tokyo_Purchase                14506
San Francisco_Purchase        14488
New York_Purchase             14445
Tokyo_Transfer                14440
New York_Withdrawal           14423
Los Angeles_Purchase          14411
London_Purchase               14385
Tokyo_Withdrawal              14345
Los Angeles_Withdrawal        14344
London_Withdrawal             14305
Name: count, dtype: int64
Merchant/Location
MerchantF_Los Angeles        4476
MerchantD_London             4453
MerchantG_London             4446
MerchantI_Tokyo              4445
MerchantG_New York           4432
MerchantE_San Francisco      4424
MerchantB_Los Angeles        4399
MerchantE_New York           4395
MerchantA_Los Angeles        4394
MerchantH_New York           4393
MerchantA_Tokyo              4393
MerchantB_London             4391
MerchantI_San Francisco      4390
MerchantB_San Francisco      4385
```

```
MerchantF_Tokyo             4376
MerchantG_Tokyo             4373
MerchantA_San Francisco     4368
MerchantF_San Francisco     4367
MerchantD_San Francisco     4360
MerchantD_Los Angeles       4360
MerchantF_New York          4356
MerchantJ_Tokyo             4353
MerchantJ_San Francisco     4350
MerchantF_London            4349
MerchantG_San Francisco     4348
MerchantD_Tokyo             4347
MerchantJ_New York          4346
MerchantH_San Francisco     4334
MerchantE_London            4332
MerchantJ_Los Angeles       4332
MerchantB_New York          4332
MerchantA_London            4332
MerchantI_Los Angeles       4330
MerchantH_Tokyo             4311
MerchantC_New York          4310
MerchantI_New York          4302
MerchantD_New York          4300
MerchantC_Tokyo             4296
MerchantG_Los Angeles       4292
MerchantC_San Francisco     4287
MerchantI_London            4285
MerchantC_Los Angeles       4285
MerchantJ_London            4273
MerchantH_London            4267
MerchantB_Tokyo             4259
MerchantE_Los Angeles       4254
MerchantC_London            4215
MerchantH_Los Angeles       4213
MerchantA_New York          4212
MerchantE_Tokyo             4138
Name: count, dtype: int64
Minute
0      3616
1      3616
32     3616
33     3616
34     3616
35     3616
36     3616
37     3616
38     3616
39     3616
40     3616
41     3616
42     3616
43     3616
44     3616
45     3616
46     3616
47     3616
48     3616
49     3616
50     3616
51     3616
52     3616
53     3616
54     3616
55     3616
56     3616
57     3616
58     3616
31     3616
30     3616
29     3616
14     3616
2      3616
3      3616
4      3616
5      3616
6      3616
7      3616
8      3616
9      3616
10     3616
11     3616
12     3616
13     3616
```

```
15    3616
28    3616
16    3616
17    3616
18    3616
19    3616
20    3616
21    3616
22    3616
23    3616
24    3616
25    3616
26    3616
27    3616
59    3616
Name: count, dtype: int64
Hour
8     9060
17    9060
23    9060
22    9060
21    9060
9     9060
19    9060
18    9060
20    9060
16    9060
15    9060
14    9060
13    9060
12    9060
11    9060
10    9060
0     9000
1     9000
2     9000
3     9000
4     9000
5     9000
6     9000
7     9000
Name: count, dtype: int64
Day
0     31680
1     31680
2     31680
6     31200
3     30240
4     30240
5     30240
Name: count, dtype: int64
Month
3     44640
5     44640
1     44160
4     43200
2     40320
Name: count, dtype: int64
Amount_Partitions
60001-70000     22015
80001-90000     21938
10001-20000     21743
70001-80000     21736
50001-60000     21661
0-10000         21651
40001-50000     21605
20001-30000     21601
90001-100000    21530
30001-40000     21466
100001+            14
Name: count, dtype: int64
```

```python
In [71]: #list variables to be one-hot encoded
         one_hot_encoding = [
             'AccountID/Merchant',
             'TransactionType',
             'Location',
             'Amount_Partitions'
         ]

         # Apply one-hot encoding
         new_financial_df_encoded = pd.get_dummies(new_financial_df, columns=one_hot_encoding)
```

```
# Display the first few rows of the encoded DataFrame
print(new_financial_df_encoded.head())
```

```
           Timestamp TransactionID AccountID    Amount   Merchant  \
0 2023-01-01 08:00:00       TXN1127      ACC4  95071.92  MerchantH
1 2023-01-01 08:01:00       TXN1639     ACC10  15607.89  MerchantH
2 2023-01-01 08:02:00        TXN872      ACC8  65092.34  MerchantE
3 2023-01-01 08:03:00       TXN1438      ACC6     87.87  MerchantE
4 2023-01-01 08:04:00       TXN1338      ACC6    716.56  MerchantI

  AccountID/TransactionID AccountID/Merchant/TransactionID  \
0           ACC4_TXN1127           ACC4_MerchantH_TXN1127
1          ACC10_TXN1639          ACC10_MerchantH_TXN1639
2            ACC8_TXN872            ACC8_MerchantE_TXN872
3           ACC6_TXN1438           ACC6_MerchantE_TXN1438
4           ACC6_TXN1338           ACC6_MerchantI_TXN1338

  TransactionType/Merchant Location/TransactionType       Merchant/Location  \
0       Purchase_MerchantH          Tokyo_Purchase          MerchantH_Tokyo
1       Purchase_MerchantH         London_Purchase         MerchantH_London
2     Withdrawal_MerchantE       London_Withdrawal         MerchantE_London
3       Purchase_MerchantE         London_Purchase         MerchantE_London
4       Purchase_MerchantI    Los Angeles_Purchase  MerchantI_Los Angeles

   ... Amount_Partitions_10001-20000  Amount_Partitions_20001-30000  \
0  ...                         False                          False
1  ...                          True                          False
2  ...                         False                          False
3  ...                         False                          False
4  ...                         False                          False

   Amount_Partitions_30001-40000  Amount_Partitions_40001-50000  \
0                          False                          False
1                          False                          False
2                          False                          False
3                          False                          False
4                          False                          False

   Amount_Partitions_50001-60000  Amount_Partitions_60001-70000  \
0                          False                          False
1                          False                          False
2                          False                           True
3                          False                          False
4                          False                          False

   Amount_Partitions_70001-80000  Amount_Partitions_80001-90000  \
0                          False                          False
1                          False                          False
2                          False                          False
3                          False                          False
4                          False                          False

   Amount_Partitions_90001-100000  Amount_Partitions_100001+
0                            True                      False
1                           False                      False
2                           False                      False
3                           False                      False
4                           False                      False

[5 rows x 183 columns]
```

```
#print DataFrame info to maintain understanding of DataFrame properties
new_financial_df_encoded.info()
```

```
<class 'pandas.core.frame.DataFrame'>
Index: 216960 entries, 0 to 216959
Columns: 183 entries, Timestamp to Amount_Partitions_100001+
dtypes: bool(169), datetime64[ns](1), float64(1), int32(4), object(8)
memory usage: 56.5+ MB
```

```python
#Retrieve one-hot encoded columns
account_merchant_columns = [col for col in new_financial_df_encoded.columns if 'AccountID/Merchant_' in col]
transaction_type_columns = [col for col in new_financial_df_encoded.columns if 'TransactionType_' in col]
location_columns = [col for col in new_financial_df_encoded.columns if 'Location_' in col]
amount_partitions_columns = [col for col in new_financial_df_encoded.columns if 'Amount_Partitions_' in col]

# Create a dictionary to store correlations
correlation_results = {}

# Iterate through each pair of one-hot encoded columns to compute correlations
for account_merchant in account_merchant_columns:
    for transaction_type in transaction_type_columns:
        correlation1 = new_financial_df_encoded[account_merchant].corr(new_financial_df_encoded[transaction_type
        correlation_results[(account_merchant, transaction_type)] = correlation1
```

```python
for account_merchant in account_merchant_columns:
    for location in location_columns:
        correlation2 = new_financial_df_encoded[account_merchant].corr(new_financial_df_encoded[location])
        correlation_results[(account_merchant, location)] = correlation2

for account_merchant in account_merchant_columns:
    for amount_partitions in amount_partitions_columns:
        correlation3 = new_financial_df_encoded[account_merchant].corr(new_financial_df_encoded[amount_partition
        correlation_results[(account_merchant, amount_partitions)] = correlation3

for transaction_type in transaction_type_columns:
    for location in location_columns:
        correlation4 = new_financial_df_encoded[transaction_type].corr(new_financial_df_encoded[location])
        correlation_results[(transaction_type, location)] = correlation4

for transaction_type in transaction_type_columns:
    for amount_partitions in amount_partitions_columns:
        correlation5 = new_financial_df_encoded[transaction_type].corr(new_financial_df_encoded[amount_partition
        correlation_results[(transaction_type, amount_partitions)] = correlation5

for location in location_columns:
    for amount_partitions in amount_partitions_columns:
        correlation6 = new_financial_df_encoded[location].corr(new_financial_df_encoded[amount_partitions])
        correlation_results[(location, amount_partitions)] = correlation6

# Display the results
for (account_merchant, transaction_type), correlation1 in correlation_results.items():
    print(f'Correlation between {account_merchant} and {transaction_type}: {correlation1}')

for (account_merchant, location), correlation2 in correlation_results.items():
    print(f'Correlation between {account_merchant} and {location}: {correlation2}')

for (accout_merchant, amount_partitions), correlation3 in correlation_results.items():
    print(f'Correlation between {account_merchant} and {amount_partitions}: {correlation3}')

for (transaction_type, location), correlation4 in correlation_results.items():
    print(f'Correlation between {transaction_type} and {location}: {correlation4}')

for (transaction_type, amount_partitions), correlation5 in correlation_results.items():
    print(f'Correlation between {transaction_type} and {amount_partitions}: {correlation5}')

for (location, amount_partitions), correlation6 in correlation_results.items():
    print(f'Correlation between {location} and {amount_partitions}: {correlation6}')
```

```
Correlation between AccountID/Merchant_ACC10_MerchantA and TransactionType_Purchase: -0.0032207883322759832
Correlation between AccountID/Merchant_ACC10_MerchantA and TransactionType_Transfer: 0.001793310647927313
Correlation between AccountID/Merchant_ACC10_MerchantA and TransactionType_Withdrawal: 0.0014255429485284879
Correlation between AccountID/Merchant_ACC10_MerchantB and TransactionType_Purchase: 0.002105593961643959
Correlation between AccountID/Merchant_ACC10_MerchantB and TransactionType_Transfer: 0.0022736608589373534
Correlation between AccountID/Merchant_ACC10_MerchantB and TransactionType_Withdrawal: -0.004388247006339169
Correlation between AccountID/Merchant_ACC10_MerchantC and TransactionType_Purchase: -0.0028821986432473723
Correlation between AccountID/Merchant_ACC10_MerchantC and TransactionType_Transfer: -0.00019905063275461838
Correlation between AccountID/Merchant_ACC10_MerchantC and TransactionType_Withdrawal: 0.003084886992434382
Correlation between AccountID/Merchant_ACC10_MerchantD and TransactionType_Purchase: -0.0007273312838229094
Correlation between AccountID/Merchant_ACC10_MerchantD and TransactionType_Transfer: 0.0009696077051246796
Correlation between AccountID/Merchant_ACC10_MerchantD and TransactionType_Withdrawal: -0.0002443939485877638
Correlation between AccountID/Merchant_ACC10_MerchantE and TransactionType_Purchase: 0.00010748345788588672
Correlation between AccountID/Merchant_ACC10_MerchantE and TransactionType_Transfer: -0.0008197540768935283
Correlation between AccountID/Merchant_ACC10_MerchantE and TransactionType_Withdrawal: 0.0007145970255398699
Correlation between AccountID/Merchant_ACC10_MerchantF and TransactionType_Purchase: -0.0027093737219508972
Correlation between AccountID/Merchant_ACC10_MerchantF and TransactionType_Transfer: 0.0026682171316263384
Correlation between AccountID/Merchant_ACC10_MerchantF and TransactionType_Withdrawal: 3.6077378633079724e-05
Correlation between AccountID/Merchant_ACC10_MerchantG and TransactionType_Purchase: -0.0004022316030671973
Correlation between AccountID/Merchant_ACC10_MerchantG and TransactionType_Transfer: -0.0002679497575926239
Correlation between AccountID/Merchant_ACC10_MerchantG and TransactionType_Withdrawal: 0.000671403890556074
Correlation between AccountID/Merchant_ACC10_MerchantH and TransactionType_Purchase: -0.005325377556986343
Correlation between AccountID/Merchant_ACC10_MerchantH and TransactionType_Transfer: 0.004243110300708016
Correlation between AccountID/Merchant_ACC10_MerchantH and TransactionType_Withdrawal: 0.0010752644230045075
Correlation between AccountID/Merchant_ACC10_MerchantI and TransactionType_Purchase: 0.0016991049414778754
Correlation between AccountID/Merchant_ACC10_MerchantI and TransactionType_Transfer: -0.003873981587558143
Correlation between AccountID/Merchant_ACC10_MerchantI and TransactionType_Withdrawal: 0.002184612196382192
Correlation between AccountID/Merchant_ACC10_MerchantJ and TransactionType_Purchase: -0.0016293525479455916
Correlation between AccountID/Merchant_ACC10_MerchantJ and TransactionType_Transfer: 0.001802488273507839
Correlation between AccountID/Merchant_ACC10_MerchantJ and TransacType_Withdrawal: -0.00017677924394986618
Correlation between AccountID/Merchant_ACC11_MerchantA and TransactionType_Purchase: 0.0011366296956958086
Correlation between AccountID/Merchant_ACC11_MerchantA and TransactionType_Transfer: 0.0015110418284030888
Correlation between AccountID/Merchant_ACC11_MerchantA and TransactionType_Withdrawal: -0.0026533700199001266
Correlation between AccountID/Merchant_ACC11_MerchantB and TransactionType_Purchase: 0.001412567517950783
Correlation between AccountID/Merchant_ACC11_MerchantB and TransacType_Transfer: -0.00010749325355345926
Correlation between AccountID/Merchant_ACC11_MerchantB and TransactionType_Withdrawal: -0.0013062467929000473
Correlation between AccountID/Merchant_ACC11_MerchantC and TransactionType_Purchase: 0.0019983272340420529
Correlation between AccountID/Merchant_ACC11_MerchantC and TransactionType_Transfer: -0.0006564385049323352
Correlation between AccountID/Merchant_ACC11_MerchantC and TransactionType_Withdrawal: -0.001326975437322428
```

```
Correlation between AccountID/Merchant_ACC11_MerchantD and TransactionType_Purchase: -9.068920075614944e-05
Correlation between AccountID/Merchant_ACC11_MerchantD and TransactionType_Transfer: 0.0012483220047489077
Correlation between AccountID/Merchant_ACC11_MerchantD and TransactionType_Withdrawal: -0.00116125257290674
Correlation between AccountID/Merchant_ACC11_MerchantE and TransactionType_Purchase: 0.0008839796519668648
Correlation between AccountID/Merchant_ACC11_MerchantE and TransactionType_Transfer: 0.00276952740396782
Correlation between AccountID/Merchant_ACC11_MerchantE and TransactionType_Withdrawal: -0.0036626844489684907
Correlation between AccountID/Merchant_ACC11_MerchantF and TransactionType_Purchase: 0.0037299293826761914
Correlation between AccountID/Merchant_ACC11_MerchantF and TransactionType_Transfer: -0.0011665646924324219
Correlation between AccountID/Merchant_ACC11_MerchantF and TransactionType_Withdrawal: -0.002563833386636189
Correlation between AccountID/Merchant_ACC11_MerchantG and TransactionType_Purchase: 0.002707251995554722
Correlation between AccountID/Merchant_ACC11_MerchantG and TransactionType_Transfer: 0.00081825939935133092
Correlation between AccountID/Merchant_ACC11_MerchantG and TransactionType_Withdrawal: -0.003530807321803955
Correlation between AccountID/Merchant_ACC11_MerchantH and TransactionType_Purchase: -0.0024437042016068125
Correlation between AccountID/Merchant_ACC11_MerchantH and TransactionType_Transfer: 0.0053660270363686076
Correlation between AccountID/Merchant_ACC11_MerchantH and TransactionType_Withdrawal: -0.002935712685903248
Correlation between AccountID/Merchant_ACC11_MerchantI and TransactionType_Purchase: -0.00029563994488542743
Correlation between AccountID/Merchant_ACC11_MerchantI and TransactionType_Transfer: -0.0049676154656560095
Correlation between AccountID/Merchant_ACC11_MerchantI and TransactionType_Withdrawal: 0.005278353897379467
Correlation between AccountID/Merchant_ACC11_MerchantJ and TransactionType_Purchase: 0.0010037721584788184
Correlation between AccountID/Merchant_ACC11_MerchantJ and TransactionType_Transfer: -0.0022419820623095577
Correlation between AccountID/Merchant_ACC11_MerchantJ and TransactionType_Withdrawal: 0.0012438225311281195
Correlation between AccountID/Merchant_ACC12_MerchantA and TransactionType_Purchase: 0.0009079241243778153
Correlation between AccountID/Merchant_ACC12_MerchantA and TransactionType_Transfer: 0.0027338685752989096
Correlation between AccountID/Merchant_ACC12_MerchantA and TransactionType_Withdrawal: -0.0036508892544507452
Correlation between AccountID/Merchant_ACC12_MerchantB and TransactionType_Purchase: 0.0032919645190985264
Correlation between AccountID/Merchant_ACC12_MerchantB and TransactionType_Transfer: -0.0025884070779087637
Correlation between AccountID/Merchant_ACC12_MerchantB and TransactionType_Withdrawal: -0.0006993313302689051
Correlation between AccountID/Merchant_ACC12_MerchantC and TransactionType_Purchase: -0.0007463849205894129
Correlation between AccountID/Merchant_ACC12_MerchantC and TransactionType_Transfer: 0.002347349724371534
Correlation between AccountID/Merchant_ACC12_MerchantC and TransactionType_Withdrawal: -0.0016071630024053205
Correlation between AccountID/Merchant_ACC12_MerchantD and TransactionType_Purchase: 0.0015682431828441031
Correlation between AccountID/Merchant_ACC12_MerchantD and TransactionType_Transfer: -0.0014866770313169961
Correlation between AccountID/Merchant_ACC12_MerchantD and TransactionType_Withdrawal: -7.87980682864194e-05
Correlation between AccountID/Merchant_ACC12_MerchantE and TransactionType_Purchase: -1.3960049369764778e-05
Correlation between AccountID/Merchant_ACC12_MerchantE and TransactionType_Transfer: -0.003127908419919694
Correlation between AccountID/Merchant_ACC12_MerchantE and TransactionType_Withdrawal: 0.0031511933334803888
Correlation between AccountID/Merchant_ACC12_MerchantF and TransactionType_Purchase: 0.004416016414111451
Correlation between AccountID/Merchant_ACC12_MerchantF and TransactionType_Transfer: -0.0016303210406891067
Correlation between AccountID/Merchant_ACC12_MerchantF and TransactionType_Withdrawal: -0.0027855086614608314
Correlation between AccountID/Merchant_ACC12_MerchantG and TransactionType_Purchase: -8.884647675810841e-05
Correlation between AccountID/Merchant_ACC12_MerchantG and TransactionType_Transfer: 0.001941536184776719
Correlation between AccountID/Merchant_ACC12_MerchantG and TransactionType_Withdrawal: -0.0018583747526367833
Correlation between AccountID/Merchant_ACC12_MerchantH and TransactionType_Purchase: -0.0038779419478901633
Correlation between AccountID/Merchant_ACC12_MerchantH and TransactionType_Transfer: 0.002245715059498331
Correlation between AccountID/Merchant_ACC12_MerchantH and TransactionType_Withdrawal: 0.0016296399158016923
Correlation between AccountID/Merchant_ACC12_MerchantI and TransactionType_Purchase: 0.0020808356906020257
Correlation between AccountID/Merchant_ACC12_MerchantI and TransactionType_Transfer: -0.00053709071914605718
Correlation between AccountID/Merchant_ACC12_MerchantI and TransactionType_Withdrawal: -0.0015443383990427124
Correlation between AccountID/Merchant_ACC12_MerchantJ and TransactionType_Purchase: 0.0027098930901316735
Correlation between AccountID/Merchant_ACC12_MerchantJ and TransactionType_Transfer: -0.0012175422761092028
Correlation between AccountID/Merchant_ACC12_MerchantJ and TransactionType_Withdrawal: -0.0014915900360855138
Correlation between AccountID/Merchant_ACC13_MerchantA and TransactionType_Purchase: -0.001457096237126461
Correlation between AccountID/Merchant_ACC13_MerchantA and TransactionType_Transfer: 0.001440140574642858
Correlation between AccountID/Merchant_ACC13_MerchantA and TransactionType_Withdrawal: 1.4208658750307189e-05
Correlation between AccountID/Merchant_ACC13_MerchantB and TransactionType_Purchase: -0.00025018629498672993
Correlation between AccountID/Merchant_ACC13_MerchantB and TransactionType_Transfer: -0.00022140203213033457
Correlation between AccountID/Merchant_ACC13_MerchantB and TransactionType_Withdrawal: 0.0004725116625383327
Correlation between AccountID/Merchant_ACC13_MerchantC and TransactionType_Purchase: -0.001249846544643827
Correlation between AccountID/Merchant_ACC13_MerchantC and TransactionType_Transfer: -0.001455816524120365
Correlation between AccountID/Merchant_ACC13_MerchantC and TransactionType_Withdrawal: 0.0027113168099956036
Correlation between AccountID/Merchant_ACC13_MerchantD and TransactionType_Purchase: -0.003012049198311849
Correlation between AccountID/Merchant_ACC13_MerchantD and TransactionType_Transfer: 0.0032829291402347647
Correlation between AccountID/Merchant_ACC13_MerchantD and TransactionType_Withdrawal: -0.0002774690249925169
Correlation between AccountID/Merchant_ACC13_MerchantE and TransactionType_Purchase: 0.00026990090677916637
Correlation between AccountID/Merchant_ACC13_MerchantE and TransactionType_Transfer: -0.0007783477435066312
Correlation between AccountID/Merchant_ACC13_MerchantE and TransactionType_Withdrawal: 0.0005104702234174058
Correlation between AccountID/Merchant_ACC13_MerchantF and TransactionType_Purchase: 0.0010110406068403808
Correlation between AccountID/Merchant_ACC13_MerchantF and TransactionType_Transfer: -0.001208621669753588
Correlation between AccountID/Merchant_ACC13_MerchantF and TransactionType_Withdrawal: 0.00020011024805966673
Correlation between AccountID/Merchant_ACC13_MerchantG and TransactionType_Purchase: -0.00169928905880671
Correlation between AccountID/Merchant_ACC13_MerchantG and TransactionType_Transfer: 0.0009856795177443371
Correlation between AccountID/Merchant_ACC13_MerchantG and TransactionType_Withdrawal: 0.0007124711194375862
Correlation between AccountID/Merchant_ACC13_MerchantH and TransactionType_Purchase: 0.0003529402208530404
Correlation between AccountID/Merchant_ACC13_MerchantH and TransactionType_Transfer: -0.0036354688882848865
Correlation between AccountID/Merchant_ACC13_MerchantH and TransactionType_Withdrawal: 0.0032929766065004267
Correlation between AccountID/Merchant_ACC13_MerchantI and TransactionType_Purchase: -0.0042432515570286638
Correlation between AccountID/Merchant_ACC13_MerchantI and TransactionType_Transfer: 0.0042483182329303
Correlation between AccountID/Merchant_ACC13_MerchantI and TransactionType_Withdrawal: -1.322835388790236e-05
Correlation between AccountID/Merchant_ACC13_MerchantJ and TransactionType_Purchase: -0.0008467162052841191
Correlation between AccountID/Merchant_ACC13_MerchantJ and TransactionType_Transfer: -0.00022195624642935515
Correlation between AccountID/Merchant_ACC13_MerchantJ and TransactionType_Withdrawal: 0.0010702277132297574
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Correlation between AccountID/Merchant_ACC11_MerchantA and Amount_Partitions_20001-30000: 0.0026419708809810511
Correlation between AccountID/Merchant_ACC11_MerchantA and Amount_Partitions_30001-40000: -0.002045628891022744
Correlation between AccountID/Merchant_ACC11_MerchantA and Amount_Partitions_40001-50000: 0.0024499486833680735
Correlation between AccountID/Merchant_ACC11_MerchantA and Amount_Partitions_50001-60000: -0.004524050121225068
Correlation between AccountID/Merchant_ACC11_MerchantA and Amount_Partitions_60001-70000: -0.0027185032316391438
Correlation between AccountID/Merchant_ACC11_MerchantA and Amount_Partitions_70001-80000: 0.00022831205941824912
Correlation between AccountID/Merchant_ACC11_MerchantA and Amount_Partitions_80001-90000: 0.0008981461312511748
Correlation between AccountID/Merchant_ACC11_MerchantA and Amount_Partitions_90001-100000: 0.0001189581456139702
Correlation between AccountID/Merchant_ACC11_MerchantA and Amount_Partitions_100001+: -0.0006668881130669133
Correlation between AccountID/Merchant_ACC11_MerchantB and Amount_Partitions_0-10000: 0.0032820716779993217
Correlation between AccountID/Merchant_ACC11_MerchantB and Amount_Partitions_10001-20000: 0.0009260893498383822
Correlation between AccountID/Merchant_ACC11_MerchantB and Amount_Partitions_20001-30000: -0.0009420413328199899
Correlation between AccountID/Merchant_ACC11_MerchantB and Amount_Partitions_30001-40000: 0.0005381839756804405
Correlation between AccountID/Merchant_ACC11_MerchantB and Amount_Partitions_40001-50000: -0.0003873730290763529
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Correlation between AccountID/Merchant_ACC11_MerchantB and Amount_Partitions_50001-60000: 0.00065967100696477
Correlation between AccountID/Merchant_ACC11_MerchantB and Amount_Partitions_60001-70000: -0.0005340268494137425
Correlation between AccountID/Merchant_ACC11_MerchantB and Amount_Partitions_70001-80000: -0.002972276124648012
Correlation between AccountID/Merchant_ACC11_MerchantB and Amount_Partitions_80001-90000: -0.0011782847314184685
Correlation between AccountID/Merchant_ACC11_MerchantB and Amount_Partitions_90001-100000: 0.0004555077928634548
Correlation between AccountID/Merchant_ACC11_MerchantB and Amount_Partitions_100001+: 0.00628751225479057
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Correlation between AccountID/Merchant_ACC11_MerchantC and Amount_Partitions_10001-20000: 0.003282200162341663
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Correlation between AccountID/Merchant_ACC11_MerchantC and Amount_Partitions_40001-50000: -0.0007728370883058876
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Correlation between AccountID/Merchant_ACC11_MerchantC and Amount_Partitions_70001-80000: -0.0011245931449945783
Correlation between AccountID/Merchant_ACC11_MerchantC and Amount_Partitions_80001-90000: -3.0042106137850778e-0
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Correlation between AccountID/Merchant_ACC11_MerchantC and Amount_Partitions_90001-100000: -0.000488176595618455
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Correlation between AccountID/Merchant_ACC11_MerchantC and Amount_Partitions_100001+: -0.0006464616800486531
Correlation between AccountID/Merchant_ACC11_MerchantD and Amount_Partitions_0-10000: -0.002102376804246946
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Correlation between AccountID/Merchant_ACC11_MerchantD and Amount_Partitions_50001-60000: -0.00023723859292029815
Correlation between AccountID/Merchant_ACC11_MerchantD and Amount_Partitions_60001-70000: 0.00025088068454337254
Correlation between AccountID/Merchant_ACC11_MerchantD and Amount_Partitions_70001-80000: 0.0007928962593283695
Correlation between AccountID/Merchant_ACC11_MerchantD and Amount_Partitions_80001-90000: -0.0017051663496975976
Correlation between AccountID/Merchant_ACC11_MerchantD and Amount_Partitions_90001-100000: 0.0001168812355564645
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Correlation between AccountID/Merchant_ACC11_MerchantE and Amount_Partitions_10001-20000: 0.0005192109872264934
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Correlation between AccountID/Merchant_ACC11_MerchantE and Amount_Partitions_30001-40000: 0.001059020597464733
Correlation between AccountID/Merchant_ACC11_MerchantE and Amount_Partitions_40001-50000: 0.0018488031951027124
Correlation between AccountID/Merchant_ACC11_MerchantE and Amount_Partitions_50001-60000: 0.0010072660024462443
Correlation between AccountID/Merchant_ACC11_MerchantE and Amount_Partitions_60001-70000: -0.0009649736939250755
Correlation between AccountID/Merchant_ACC11_MerchantE and Amount_Partitions_70001-80000: 0.0009127288967405848
Correlation between AccountID/Merchant_ACC11_MerchantE and Amount_Partitions_80001-90000: -0.0012551834580561369
Correlation between AccountID/Merchant_ACC11_MerchantE and Amount_Partitions_90001-100000: -0.001147070015330150
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Correlation between AccountID/Merchant_ACC11_MerchantE and Amount_Partitions_100001+: -0.0006450619625406609
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Correlation between AccountID/Merchant_ACC11_MerchantF and Amount_Partitions_20001-30000: 0.0010057674941423692
Correlation between AccountID/Merchant_ACC11_MerchantF and Amount_Partitions_30001-40000: 0.0030278749796547348
Correlation between AccountID/Merchant_ACC11_MerchantF and Amount_Partitions_40001-50000: -0.0023083974064964986
Correlation between AccountID/Merchant_ACC11_MerchantF and Amount_Partitions_50001-60000: -0.0014602700026196207
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Correlation between AccountID/Merchant_ACC11_MerchantF and Amount_Partitions_90001-100000: -0.001846243360686631
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Correlation between AccountID/Merchant_ACC11_MerchantG and Amount_Partitions_0-10000: 0.000962129722378701
Correlation between AccountID/Merchant_ACC11_MerchantG and Amount_Partitions_10001-20000: 0.0006561534455006373
Correlation between AccountID/Merchant_ACC11_MerchantG and Amount_Partitions_20001-30000: 0.0023479251316232933
Correlation between AccountID/Merchant_ACC11_MerchantG and Amount_Partitions_30001-40000: 0.0025255411386878503
Correlation between AccountID/Merchant_ACC11_MerchantG and Amount_Partitions_40001-50000: -0.001999454832043405
Correlation between AccountID/Merchant_ACC11_MerchantG and Amount_Partitions_50001-60000: 0.0011378833653178468
Correlation between AccountID/Merchant_ACC11_MerchantG and Amount_Partitions_60001-70000: -0.0002499183514744530
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Correlation between AccountID/Merchant_ACC11_MerchantH and Amount_Partitions_20001-30000: 0.0009790695195621398
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Correlation between AccountID/Merchant_ACC11_MerchantH and Amount_Partitions_80001-90000: 0.0003649855159108484
Correlation between AccountID/Merchant_ACC11_MerchantH and Amount_Partitions_90001-100000: 0.002409831538068301
Correlation between AccountID/Merchant_ACC11_MerchantH and Amount_Partitions_100001+: -0.000650874770760034
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Correlation between AccountID/Merchant_ACC11_MerchantI and Amount_Partitions_40001-50000: 0.00020917220222812732
Correlation between AccountID/Merchant_ACC11_MerchantI and Amount_Partitions_50001-60000: -0.0006224258527052968
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Correlation between AccountID/Merchant_ACC11_MerchantJ and Amount_Partitions_90001-100000: -0.003434074300703729
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Correlation between AccountID/Merchant_ACC11_MerchantJ and Amount_Partitions_100001+: -0.0006471604326881453
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Correlation between AccountID/Merchant_ACC12_MerchantA and Amount_Partitions_10001-20000: 9.138897108963854e-05
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Correlation between AccountID/Merchant_ACC12_MerchantA and Amount_Partitions_40001-50000: -0.0008667245389129935
Correlation between AccountID/Merchant_ACC12_MerchantA and Amount_Partitions_50001-60000: -0.0007478288084827259
Correlation between AccountID/Merchant_ACC12_MerchantA and Amount_Partitions_60001-70000: 0.0010606126848875276
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Correlation between AccountID/Merchant_ACC12_MerchantA and Amount_Partitions_80001-90000: -0.0025913088597323557
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Correlation between AccountID/Merchant_ACC12_MerchantB and Amount_Partitions_10001-20000: -0.0002295191776539395
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Correlation between AccountID/Merchant_ACC12_MerchantH and Amount_Partitions_90001-100000: 0.0009458687770960866
Correlation between AccountID/Merchant_ACC12_MerchantH and Amount_Partitions_100001+: -0.0006614403315585209
Correlation between AccountID/Merchant_ACC12_MerchantI and Amount_Partitions_0-10000: 0.0019175607548652606
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Correlation between AccountID/Merchant_ACC12_MerchantI and Amount_Partitions_10001-20000: -0.0025609434433363837
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Correlation between AccountID/Merchant_ACC8_MerchantJ and Amount_Partitions_40001-50000: 0.0006879714238295513
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Correlation between AccountID/Merchant_ACC11_MerchantJ and Amount_Partitions_90001-100000: -0.003434074300703729
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Correlation between AccountID/Merchant_ACC12_MerchantA and Amount_Partitions_0-10000: 0.0024710091750097885
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Correlation between AccountID/Merchant_ACC4_MerchantD and Amount_Partitions_90001-100000: 0.0028474225408790205
Correlation between AccountID/Merchant_ACC4_MerchantD and Amount_Partitions_100001+: -0.0006568669378808706
Correlation between AccountID/Merchant_ACC4_MerchantE and Amount_Partitions_0-10000: 0.0036628948549498586
Correlation between AccountID/Merchant_ACC4_MerchantE and Amount_Partitions_10001-20000: 0.0016557261947360844
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Correlation between AccountID/Merchant_ACC4_MerchantE and Amount_Partitions_60001-70000: -0.003941347653503894
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5
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Correlation between AccountID/Merchant_ACC5_MerchantB and Amount_Partitions_0-10000: 0.002998679910642428
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Correlation between AccountID/Merchant_ACC2_MerchantG and TransactionType_Purchase: 0.0013045860449027648
Correlation between AccountID/Merchant_ACC2_MerchantG and TransactionType_Transfer: -0.00045964557173268106
Correlation between AccountID/Merchant_ACC2_MerchantG and TransactionType_Withdrawal: -0.0008449507419746522
Correlation between AccountID/Merchant_ACC2_MerchantH and TransactionType_Purchase: 0.001354862485207471
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Correlation between AccountID/Merchant_ACC2_MerchantI and TransactionType_Withdrawal: 0.0006320360191270696
Correlation between AccountID/Merchant_ACC2_MerchantJ and TransactionType_Purchase: 0.0031142390524908089
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Correlation between AccountID/Merchant_ACC3_MerchantC and TransactionType_Purchase: 0.0007070257153617173
Correlation between AccountID/Merchant_ACC3_MerchantC and TransactionType_Transfer: -0.0023716752509045170
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Correlation between AccountID/Merchant_ACC3_MerchantD and TransactionType_Transfer: 9.902135601722927e-05
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Correlation between AccountID/Merchant_ACC12_MerchantI and Amount_Partitions_0-10000: 0.0019175607548652606
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Correlation between AccountID/Merchant_ACC12_MerchantI and Amount_Partitions_20001-30000: 0.001221835859644868
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Correlation between AccountID/Merchant_ACC12_MerchantI and Amount_Partitions_40001-50000: -0.0020148702979975812
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Correlation between AccountID/Merchant_ACC12_MerchantI and Amount_Partitions_60001-70000: -0.0010001537195277717
Correlation between AccountID/Merchant_ACC12_MerchantI and Amount_Partitions_70001-80000: 0.0014286969164344525
Correlation between AccountID/Merchant_ACC12_MerchantI and Amount_Partitions_80001-90000: 0.0032479798986596144
Correlation between AccountID/Merchant_ACC12_MerchantI and Amount_Partitions_90001-100000: 0.0001705204666373243
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Correlation between AccountID/Merchant_ACC12_MerchantI and Amount_Partitions_100001+: -0.0006547987683098305
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Correlation between AccountID/Merchant_ACC12_MerchantJ and Amount_Partitions_50001-60000: 0.001573120931517978
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Correlation between AccountID/Merchant_ACC12_MerchantJ and Amount_Partitions_100001+: -0.000658700003832276
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Correlation between AccountID/Merchant_ACC13_MerchantA and Amount_Partitions_90001-100000: 0.0004180876735846059
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Correlation between AccountID/Merchant_ACC13_MerchantB and Amount_Partitions_30001-40000: -0.0007071605809857022
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Correlation between AccountID/Merchant_ACC1_MerchantF and Amount_Partitions_0-10000: -0.0010694290084434144
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Correlation between AccountID/Merchant_ACC5_MerchantC and Amount_Partitions_10001-20000: -0.0009915753515564814
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Correlation between AccountID/Merchant_ACC5_MerchantC and Amount_Partitions_30001-40000: 0.0006902406851958982
Correlation between AccountID/Merchant_ACC5_MerchantC and Amount_Partitions_40001-50000: 0.0026151800615054978
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Correlation between AccountID/Merchant_ACC5_MerchantC and Amount_Partitions_70001-80000: -0.0036492130774609306
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Correlation between AccountID/Merchant_ACC15_MerchantG and Amount_Partitions_100001+: -0.0006621236889402907

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Correlation between AccountID/Merchant_ACC15_MerchantH and Amount_Partitions_90001-100000: 0.00066191415210503%
Correlation between AccountID/Merchant_ACC15_MerchantH and Amount_Partitions_100001+: -0.000664850284103874
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Correlation between AccountID/Merchant_ACC4_MerchantD and Amount_Partitions_0-10000: -0.0012876126390614913
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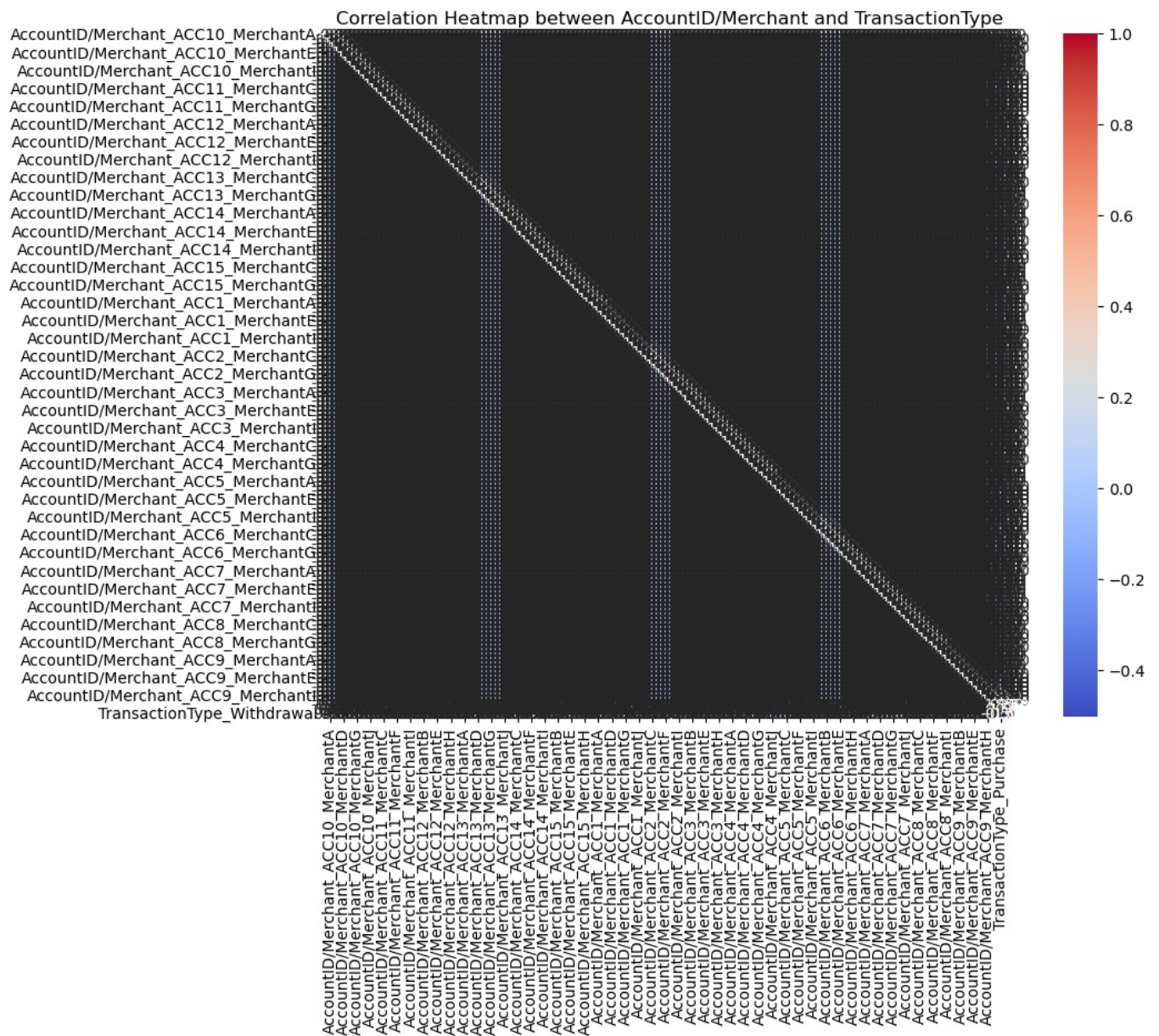
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Correlation between AccountID/Merchant_ACC9_MerchantI and Amount_Partitions_30001-40000: 0.0015275821267668843
Correlation between AccountID/Merchant_ACC9_MerchantI and Amount_Partitions_40001-50000: 0.0030576813068145248
Correlation between AccountID/Merchant_ACC9_MerchantI and Amount_Partitions_50001-60000: -0.00441351013231685
Correlation between AccountID/Merchant_ACC9_MerchantI and Amount_Partitions_60001-70000: -0.0004914894584822024
Correlation between AccountID/Merchant_ACC9_MerchantI and Amount_Partitions_70001-80000: 0.0008021332338547951
Correlation between AccountID/Merchant_ACC9_MerchantI and Amount_Partitions_80001-90000: -0.00020758742371981942
Correlation between AccountID/Merchant_ACC9_MerchantI and Amount_Partitions_90001-100000: -0.0017881752624545955
Correlation between AccountID/Merchant_ACC9_MerchantI and Amount_Partitions_100001+: -0.0006554888640094026
Correlation between AccountID/Merchant_ACC9_MerchantJ and Amount_Partitions_0-10000: 0.0018215818747515638
Correlation between AccountID/Merchant_ACC9_MerchantJ and Amount_Partitions_10001-20000: 1.5442334797177468e-05
Correlation between AccountID/Merchant_ACC9_MerchantJ and Amount_Partitions_20001-30000: -0.002434906343602819
Correlation between AccountID/Merchant_ACC9_MerchantJ and Amount_Partitions_30001-40000: -0.0026466836700040166
Correlation between AccountID/Merchant_ACC9_MerchantJ and Amount_Partitions_40001-50000: 0.0050758509260629275
Correlation between AccountID/Merchant_ACC9_MerchantJ and Amount_Partitions_50001-60000: -0.001381943885479842
Correlation between AccountID/Merchant_ACC9_MerchantJ and Amount_Partitions_60001-70000: -0.003122027331421144
Correlation between AccountID/Merchant_ACC9_MerchantJ and Amount_Partitions_70001-80000: 0.0033972267705391532
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Correlation between AccountID/Merchant_ACC9_MerchantJ and Amount_Partitions_90001-100000: 0.00047453091069407866
Correlation between AccountID/Merchant_ACC9_MerchantJ and Amount_Partitions_100001+: -0.0006625788795373253
Correlation between TransactionType_Purchase and Location_London: -0.0011175328214607669
Correlation between TransactionType_Purchase and Location_Los Angeles: -0.0004164161491025206
Correlation between TransactionType_Purchase and Location_New York: 6.507609589051054e-05
Correlation between TransactionType_Purchase and Location_San Francisco: -0.0007950969856269608
Correlation between TransactionType_Purchase and Location_Tokyo: 0.002266794486660114
Correlation between TransactionType_Transfer and Location_London: 0.002706097666019
Correlation between TransactionType_Transfer and Location_Los Angeles: 0.0009894448042962443
Correlation between TransactionType_Transfer and Location_New York: -0.0010715369710819812
Correlation between TransactionType_Transfer and Location_San Francisco: -0.0005540998884598884
Correlation between TransactionType_Transfer and Location_Tokyo: -0.002069153713933619
Correlation between TransactionType_Withdrawal and Location_London: -0.0015954387000961488
Correlation between TransactionType_Withdrawal and Location_Los Angeles: -0.0005755337310059745
Correlation between TransactionType_Withdrawal and Location_New York: 0.0010095815114644219
Correlation between TransactionType_Withdrawal and Location_San Francisco: 0.0013516862106069643
Correlation between TransactionType_Withdrawal and Location_Tokyo: -0.00019387703658510272
Correlation between TransactionType_Purchase and Amount_Partitions_0-10000: -0.0015831917726035233
Correlation between TransactionType_Purchase and Amount_Partitions_10001-20000: -0.0022521469147172013
Correlation between TransactionType_Purchase and Amount_Partitions_20001-30000: 0.0010168381492193063
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Correlation between TransactionType_Purchase and Amount_Partitions_40001-50000: 0.0012345532180634815
Correlation between TransactionType_Purchase and Amount_Partitions_50001-60000: -0.0016262384162644354
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Correlation between TransactionType_Purchase and Amount_Partitions_70001-80000: 0.005315581593560717
Correlation between TransactionType_Purchase and Amount_Partitions_80001-90000: -0.0018514659779135367
Correlation between TransactionType_Purchase and Amount_Partitions_90001-100000: 0.0020206079641633557
Correlation between TransactionType_Purchase and Amount_Partitions_100001+: 0.002847676692617406
Correlation between TransactionType_Transfer and Amount_Partitions_0-10000: 0.00233837850382035
Correlation between TransactionType_Transfer and Amount_Partitions_10001-20000: -0.00055487458529235
Correlation between TransactionType_Transfer and Amount_Partitions_20001-30000: 0.0006707525828961161
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Correlation between TransactionType_Transfer and Amount_Partitions_40001-50000: -0.0003510416764720515
Correlation between TransactionType_Transfer and Amount_Partitions_50001-60000: -0.0005065698422588462
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Correlation between TransactionType_Transfer and Amount_Partitions_70001-80000: -0.004737686106435419
Correlation between TransactionType_Transfer and Amount_Partitions_80001-90000: 0.00027540629930077553
Correlation between TransactionType_Transfer and Amount_Partitions_90001-100000: 0.0017433588744020152
Correlation between TransactionType_Transfer and Amount_Partitions_100001+: -0.0020624914241359903
Correlation between TransactionType_Withdrawal and Amount_Partitions_0-10000: -0.0007604740810431011
Correlation between TransactionType_Withdrawal and Amount_Partitions_10001-20000: 0.002811052619799221
Correlation between TransactionType_Withdrawal and Amount_Partitions_20001-30000: -0.0016906615668552808
Correlation between TransactionType_Withdrawal and Amount_Partitions_30001-40000: 0.0014773953628680193
Correlation between TransactionType_Withdrawal and Amount_Partitions_40001-50000: -0.0008837710715561852
Correlation between TransactionType_Withdrawal and Amount_Partitions_50001-60000: 0.0021360342837939725
Correlation between TransactionType_Withdrawal and Amount_Partitions_60001-70000: -0.0003230434090280685
Correlation between TransactionType_Withdrawal and Amount_Partitions_70001-80000: -0.000569410215433865
Correlation between TransactionType_Withdrawal and Amount_Partitions_80001-90000: 0.001577196147170371
Correlation between TransactionType_Withdrawal and Amount_Partitions_90001-100000: -0.0037712908044880223
Correlation between TransactionType_Withdrawal and Amount_Partitions_100001+: -0.0007820551059980696
Correlation between Location_London and Amount_Partitions_0-10000: -0.0007426939731135126
Correlation between Location_London and Amount_Partitions_10001-20000: -0.0005255202512550998
Correlation between Location_London and Amount_Partitions_20001-30000: -0.001282904677221059
Correlation between Location_London and Amount_Partitions_30001-40000: 0.0015307478991038637
Correlation between Location_London and Amount_Partitions_40001-50000: -0.00012013404819805319
Correlation between Location_London and Amount_Partitions_50001-60000: 0.0015262962215953338
```

```
Correlation between Location_London and Amount_Partitions_60001-70000: -0.0001537776504679888
Correlation between Location_London and Amount_Partitions_70001-80000: 0.001179054289079396
Correlation between Location_London and Amount_Partitions_80001-90000: 0.0007018268462087525
Correlation between Location_London and Amount_Partitions_90001-100000: -0.0020488373193934435
Correlation between Location_London and Amount_Partitions_100001+: -0.0025786546190183753
Correlation between Location_Los Angeles and Amount_Partitions_0-10000: 0.002288151091268658
Correlation between Location_Los Angeles and Amount_Partitions_10001-20000: 0.0021158481956966312
Correlation between Location_Los Angeles and Amount_Partitions_20001-30000: -0.0012908291114620866
Correlation between Location_Los Angeles and Amount_Partitions_30001-40000: -0.0011027486700607716
Correlation between Location_Los Angeles and Amount_Partitions_40001-50000: -0.00039747411562557355
Correlation between Location_Los Angeles and Amount_Partitions_50001-60000: 0.00044189117351858327
Correlation between Location_Los Angeles and Amount_Partitions_60001-70000: -0.00027551599860609386
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Correlation between Location_Los Angeles and Amount_Partitions_80001-90000: -0.0013703719447912127
Correlation between Location_Los Angeles and Amount_Partitions_90001-100000: -0.0004759691050470965
Correlation between Location_Los Angeles and Amount_Partitions_100001+: -0.0011428861296155785
Correlation between Location_New York and Amount_Partitions_0-10000: -0.0006076161222382838
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Correlation between Location_New York and Amount_Partitions_40001-50000: 0.0020549282514178667
Correlation between Location_New York and Amount_Partitions_50001-60000: -0.00045369963190159795
Correlation between Location_New York and Amount_Partitions_60001-70000: -0.003113563736333212
Correlation between Location_New York and Amount_Partitions_70001-80000: -0.00026090366703965614
Correlation between Location_New York and Amount_Partitions_80001-90000: -0.0007715565305281916
Correlation between Location_New York and Amount_Partitions_90001-100000: 0.001556829800283432
Correlation between Location_New York and Amount_Partitions_100001+: 0.00028823053949577894
Correlation between Location_San Francisco and Amount_Partitions_0-10000: 0.001908842821128749
Correlation between Location_San Francisco and Amount_Partitions_10001-20000: -0.0022883236093288826
Correlation between Location_San Francisco and Amount_Partitions_20001-30000: 0.0016822942432723783
Correlation between Location_San Francisco and Amount_Partitions_30001-40000: -0.0005032740073024621
Correlation between Location_San Francisco and Amount_Partitions_40001-50000: 0.00015335226953422674
Correlation between Location_San Francisco and Amount_Partitions_50001-60000: -0.00396163695232981
Correlation between Location_San Francisco and Amount_Partitions_60001-70000: 0.0015454583345787794
Correlation between Location_San Francisco and Amount_Partitions_70001-80000: -0.0015835632241226803
Correlation between Location_San Francisco and Amount_Partitions_80001-90000: 0.0006505588261450196
Correlation between Location_San Francisco and Amount_Partitions_90001-100000: 0.0023107180461469064
Correlation between Location_San Francisco and Amount_Partitions_100001+: 0.0031294790419780457
Correlation between Location_Tokyo and Amount_Partitions_0-10000: -0.002852072569977424
Correlation between Location_Tokyo and Amount_Partitions_10001-20000: 0.00051932379992200055
Correlation between Location_Tokyo and Amount_Partitions_20001-30000: -0.00019814631731219248
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Correlation between Location_Tokyo and Amount_Partitions_40001-50000: -0.0016924416885246406
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Correlation between Location_Tokyo and Amount_Partitions_60001-70000: 0.0019956214339677363
Correlation between Location_Tokyo and Amount_Partitions_70001-80000: 0.0005730492846211841
Correlation between Location_Tokyo and Amount_Partitions_80001-90000: 0.0007885211794705158
Correlation between Location_Tokyo and Amount_Partitions_90001-100000: -0.0013492364829975198
Correlation between Location_Tokyo and Amount_Partitions_100001+: 0.00029650797061312394
```
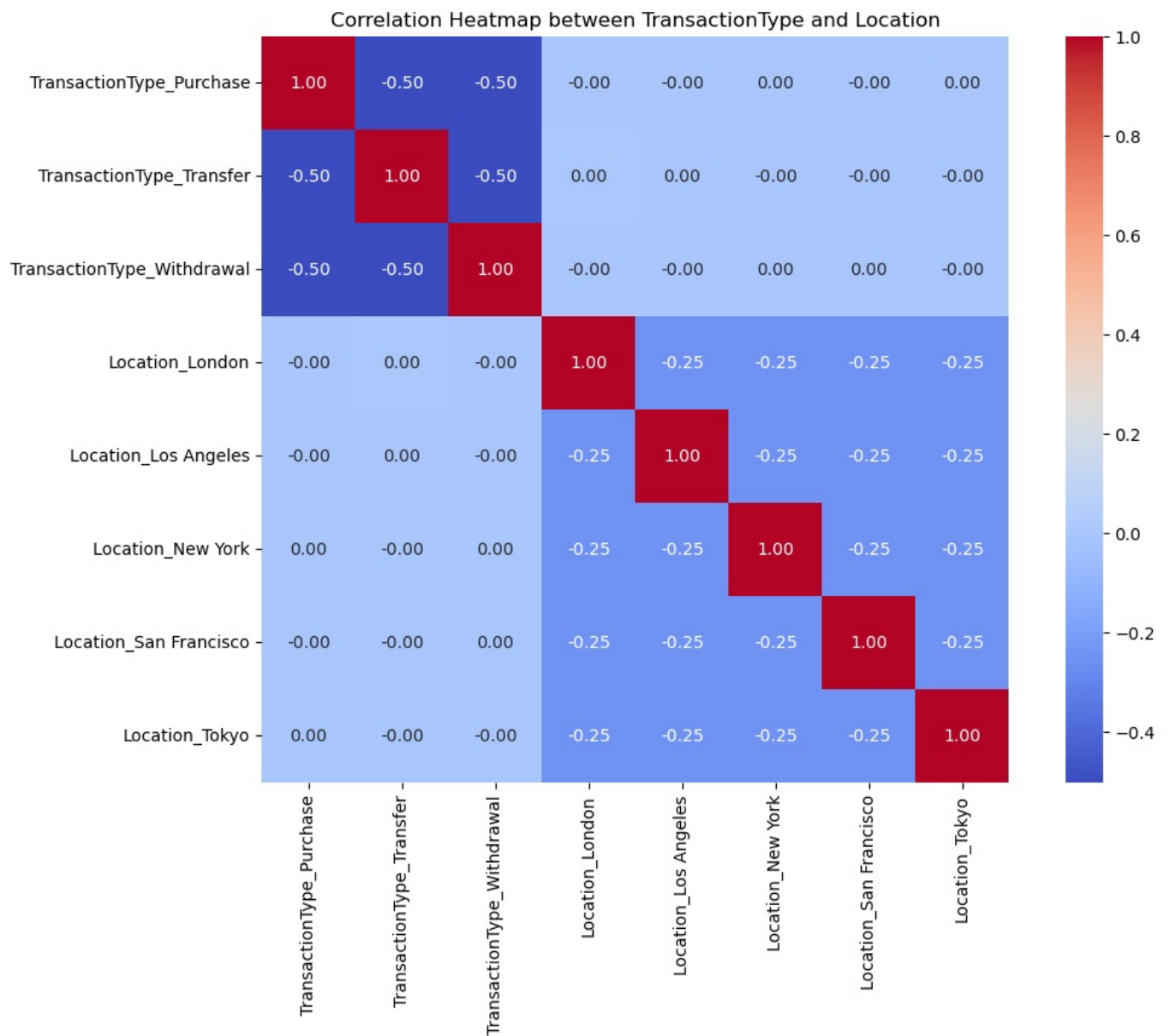
```python
In [60]: correlation_matrix = new_financial_df_encoded[account_merchant_columns + transaction_type_columns].corr()

         # Create a heatmap
         plt.figure(figsize=(12, 8))
         sns.heatmap(correlation_matrix, annot=True, fmt=".2f", cmap='coolwarm', square=True)
         plt.title('Correlation Heatmap between AccountID/Merchant and TransactionType')
         plt.show()
```
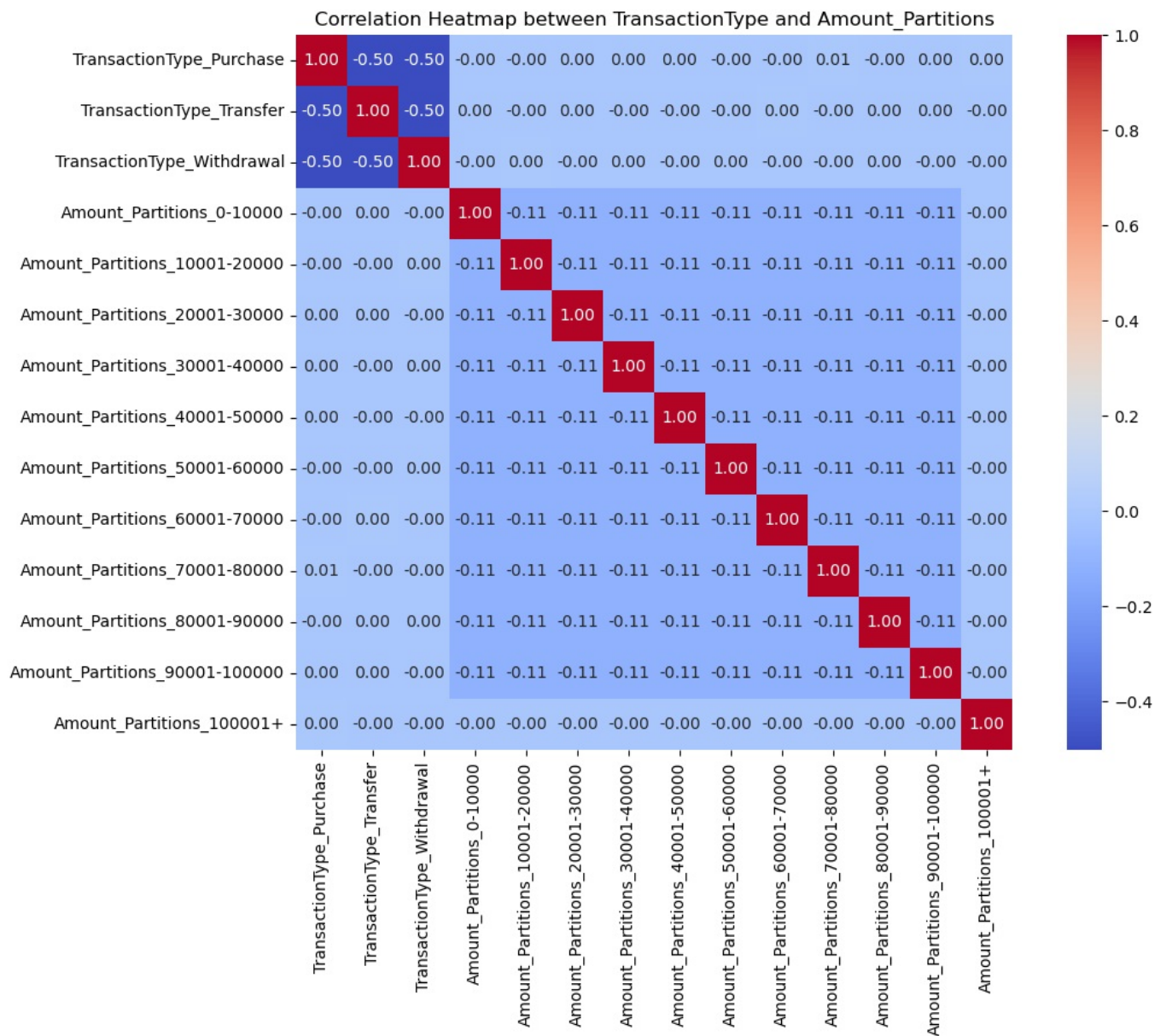
Correlation Heatmap between AccountID/Merchant and TransactionType

```
correlation_matrix = new_financial_df_encoded[transaction_type_columns + location_columns].corr()

# Create a heatmap
plt.figure(figsize=(12, 8))
sns.heatmap(correlation_matrix, annot=True, fmt=".2f", cmap='coolwarm', square=True)
plt.title('Correlation Heatmap between TransactionType and Location')
plt.show()
```

Correlation Heatmap between TransactionType and Location

```
In [62]: correlation_matrix = new_financial_df_encoded[transaction_type_columns + amount_partitions_columns].corr()

         # Create a heatmap
         plt.figure(figsize=(12, 8))
         sns.heatmap(correlation_matrix, annot=True, fmt=".2f", cmap='coolwarm', square=True)
         plt.title('Correlation Heatmap between TransactionType and Amount_Partitions')
         plt.show()
```

Correlation Heatmap between TransactionType and Amount_Partitions

In [65]:
```python
#create train set (70%) and temporary other set (30%)
train_df, temp_df = train_test_split(new_financial_df_encoded, test_size=0.30, random_state=1)

#split the leftover temp set into validation and test sets (50% of 30% each- 15% each)
validation_df, test_df = train_test_split(temp_df, test_size=0.50, random_state=42)

#verify shape of train, validation, and test DataFrames
print(f'Training set shape: {train_df.shape}')
print(f'Validation set shape: {validation_df.shape}')
print(f'Test set shape: {test_df.shape}')
```

```
Training set shape: (151872, 183)
Validation set shape: (32544, 183)
Test set shape: (32544, 183)
```

In [66]:
```python
# Save the train set
train_df.to_csv('train_data.csv', index=False)

# Save the validation set
validation_df.to_csv('validation_data.csv', index=False)

# Save the test set
test_df.to_csv('test_data.csv', index=False)

print("DataFrames have been saved as CSV files.")
```

```
DataFrames have been saved as CSV files.
```

In [67]:
```python
#END WEEK 3
```