# ChocolateBomberDFW

### Data Visualization by Zain Ul Abiden

In [4]:
```
import pandas as pd
import numpy as np
```

### Most common payment platform

In [17]:
```
#importing the excel workbook as xldata

xldata = pd.read_excel('ChocolateBombDFW.xlsx')

print (xldata.shape)
print (type(xldata))
```

```
(180, 21)
<class 'pandas.core.frame.DataFrame'>
```

In [18]:
```
xldata.head()
```

Out[18]:

| | DATE | AMOUNT | TYPE | Clien Name | Short Description | Milk | Dark | White | Andes | Chai Latte | ... | F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 2020-11-16 | 24.0 | ZELLE | Anum | 4 Milk | 4.0 | NaN | NaN | NaN | NaN | ... | N |
| 1 | 2020-11-16 | 24.0 | ZELLE | Sarah | 4 Dark Peppermint | NaN | NaN | NaN | NaN | NaN | ... | N |
| 2 | 2020-11-17 | 18.0 | VENMO | Baneen | Milk Mex Nut-2 Milk - White Nut | 2.0 | NaN | 2.0 | NaN | NaN | ... | N |
| 3 | 2020-11-18 | 12.0 | ZELLE | Nabiha | 2 Milk | 2.0 | NaN | NaN | NaN | NaN | ... | N |
| 4 | 2020-11-19 | 24.0 | VENMO | Zain | 3 Milk, 1 Nutella | 3.0 | NaN | NaN | NaN | NaN | ... | N |

5 rows × 21 columns

In [19]:
```
xldata.columns
```

Out[19]:
```
Index(['DATE', 'AMOUNT', 'TYPE', 'Clien Name', 'Short Description', '
Milk',
       'Dark', 'White', 'Andes', 'Chai Latte', 'C&C', 'Fun', 'Lotus',
'Mex',
       'Nutella', 'SC', 'S'Mores', 'Pink', 'Mint', 'P-Mocha', 'Total
'],
      dtype='object')
```

In [20]:
```
xldata1 = xldata[['AMOUNT','TYPE']]
```

In [21]:
```
xldata1.head(10)
```

Out[21]:

| | AMOUNT | TYPE |
|---|---|---|
| 0 | 24.0 | ZELLE |
| 1 | 24.0 | ZELLE |
| 2 | 18.0 | VENMO |
| 3 | 12.0 | ZELLE |
| 4 | 24.0 | VENMO |
| 5 | 18.0 | VENMO |
| 6 | 60.0 | ZELLE |
| 7 | 20.0 | CASH |
| 8 | 20.0 | CASH |
| 9 | 35.0 | ZELLE |

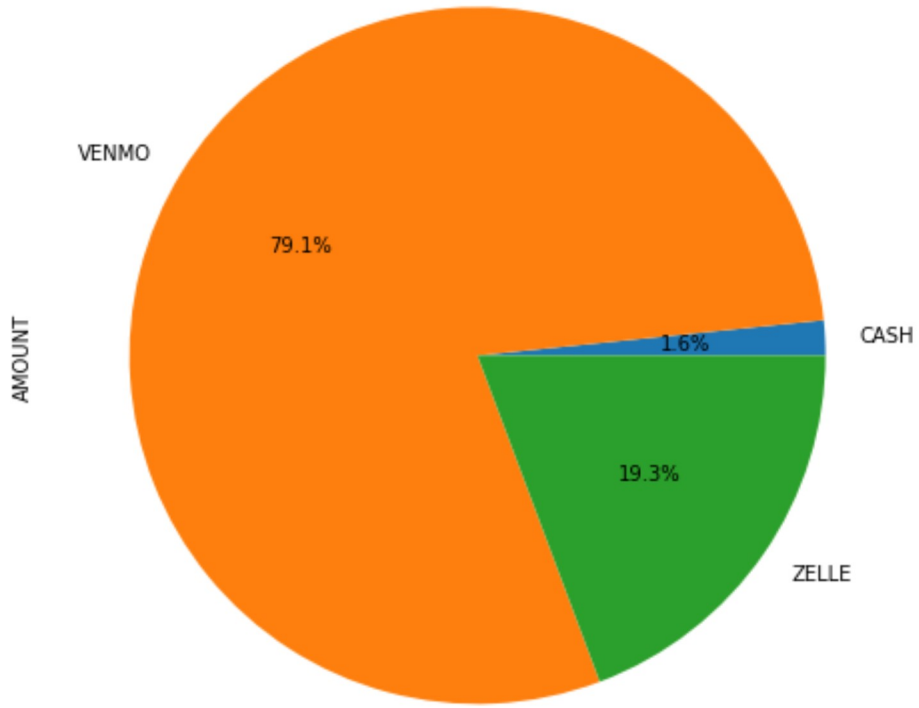
In [22]:
```
xld = xldata1.groupby(['TYPE']).sum()
xld.head()
```

Out[22]:

| | AMOUNT |
|---|---|
| TYPE | |
| CASH | 164.0 |
| VENMO | 8017.5 |
| ZELLE | 1954.5 |

In [24]:
```
import matplotlib as mpl
import matplotlib.pyplot as plt

xld.plot(kind='pie', y='AMOUNT', legend=False, figsize=(8, 8),  autopct
='%1.1f%%')
plt.show()
```




**Venmo with 79.1% is the most common form of payment.**