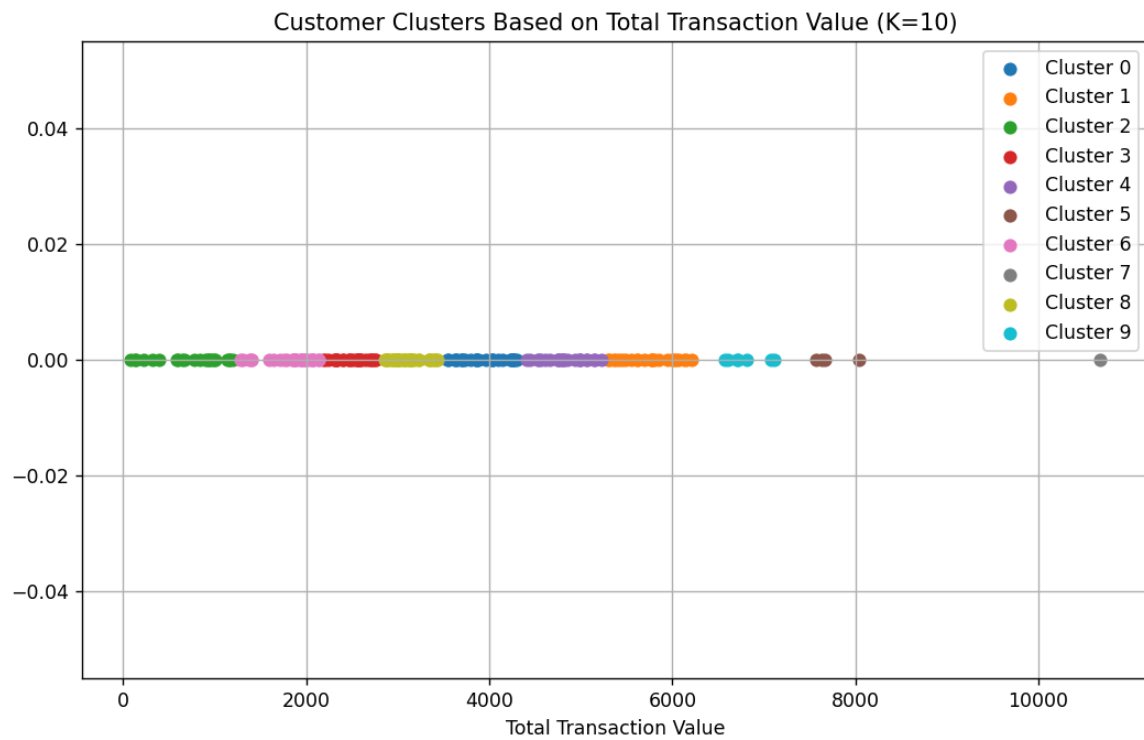


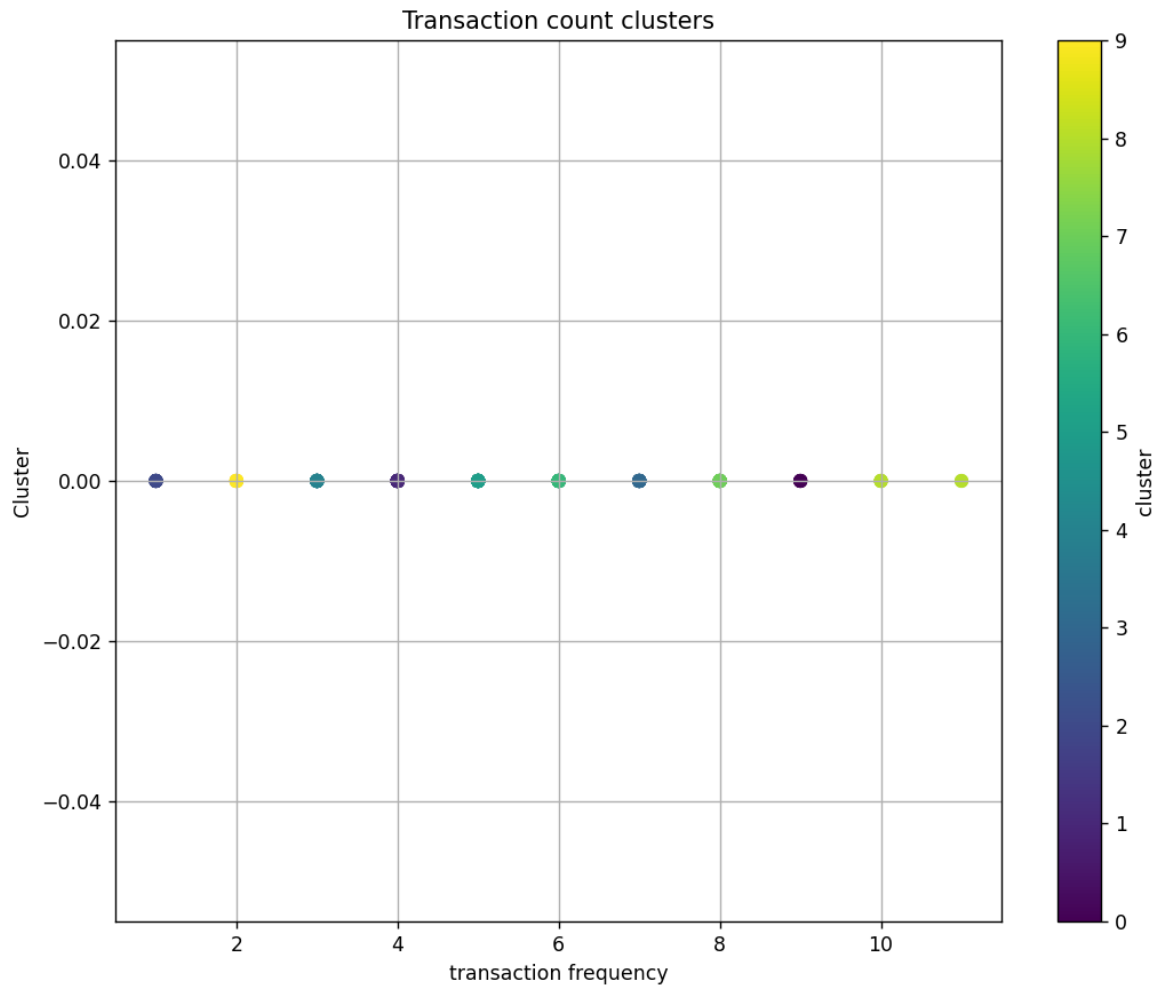
Clustering

Total transaction value:



```
best no. of clusters: 10  
best DB Index score: 0.4174899551355088
```

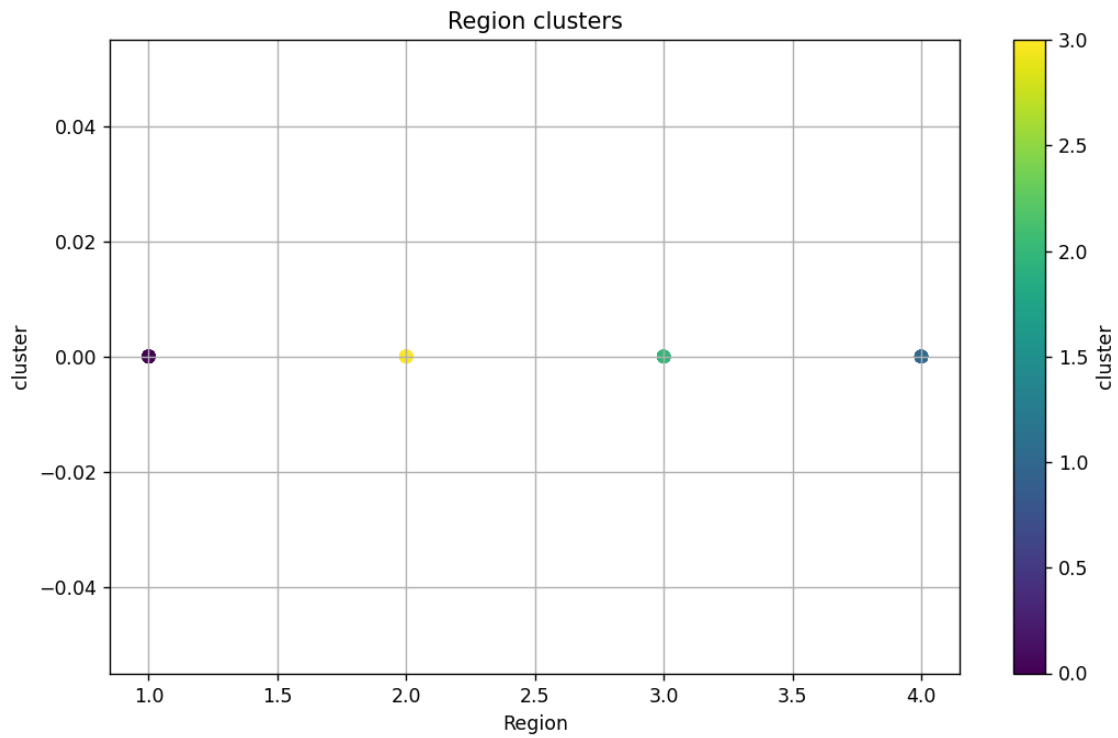
Frequency of transactions:



```
0.1408107506528547
perfect no. of clusters for transaction count: 10
lowest DB Index score for transaction count: 0.1408107506528547
```

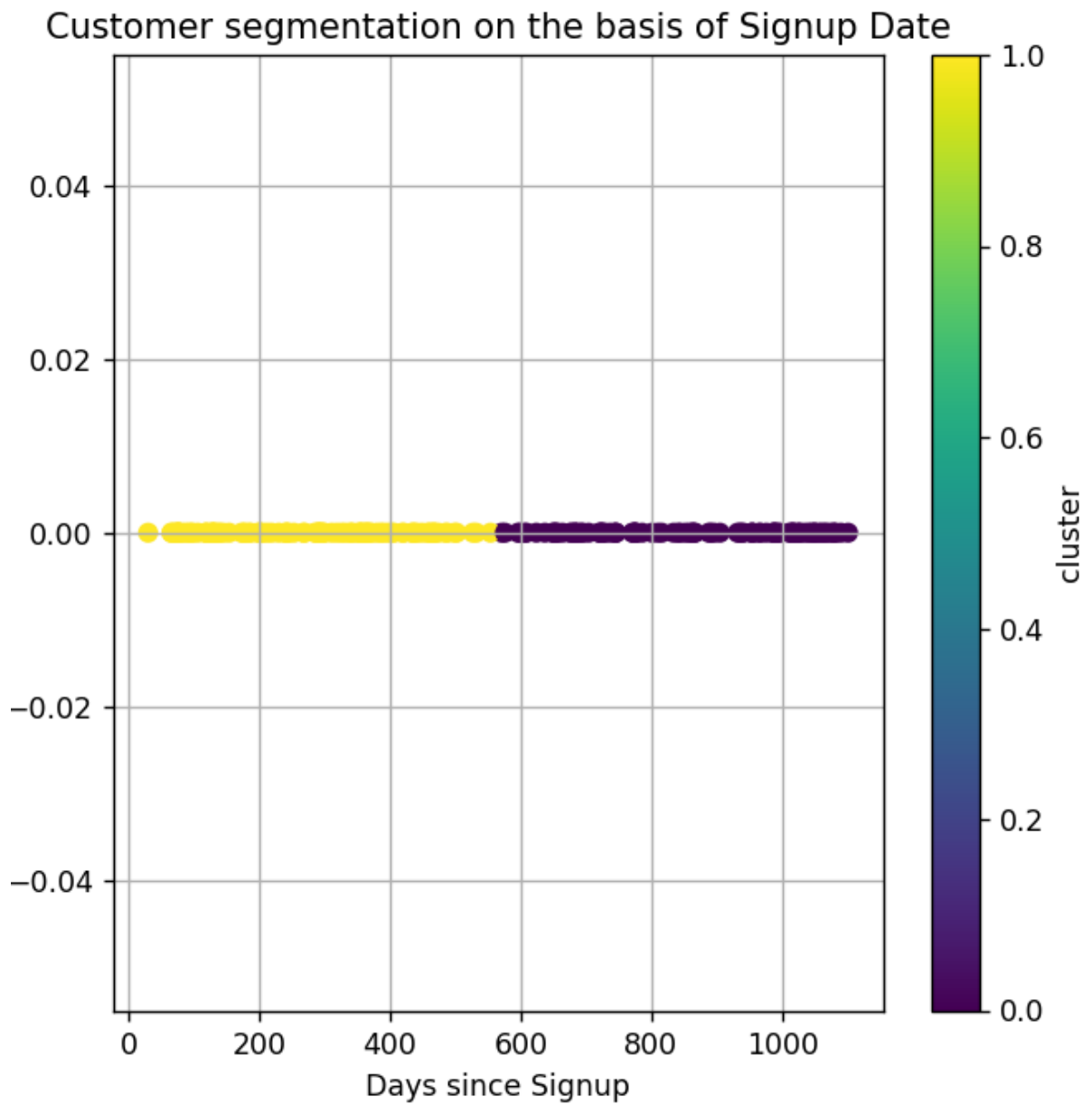
Region clustering:

Here each region ‘North America, South America, Asia, Europe’ are assigned numerical values from 1 to 4.



```
perfect no. of clusters for Region: 4  
best DB Index score for Region: 0.0
```

Signup cluster:



```
appropriate no. of clusters for SignupDate: 2
```

```
DB Index for SignupDate metric: 0.4487119641362172
```