



## ***Credit Card transactions and fraud analysis***

**Total Transactions**  
283.73K



**Fraud transactions**  
473



**Non Fraud transactions**  
283K

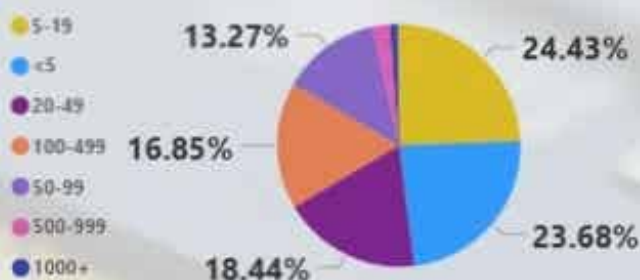


**Select transaction type**

0

1

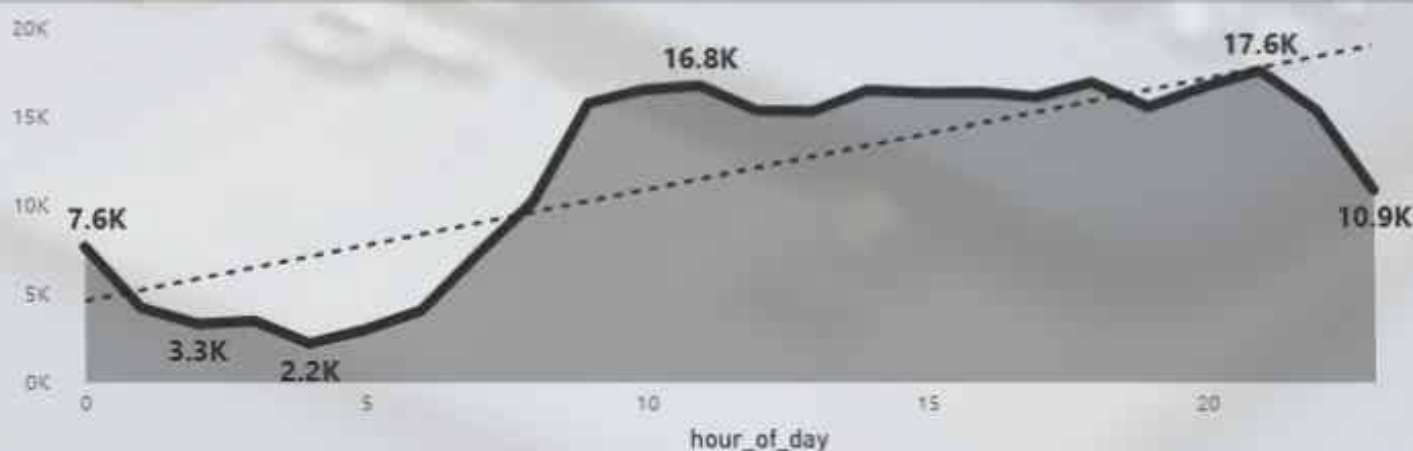
**Amount Distribution**



**Transactions above 1000**



**Trend by hour of the day**



~ 0 refers to non-fraud transactions

~1 refers to fraud transactions

Total Transactions

283.25K



Fraud transactions

473



Non Fraud transactions

283K



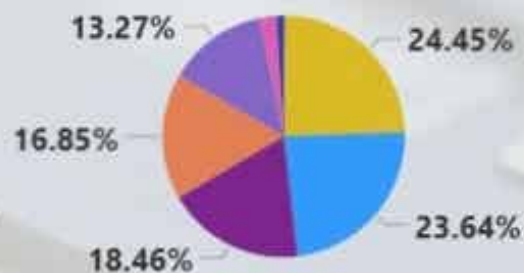
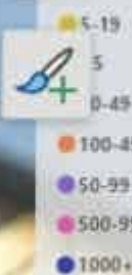
Select transaction type

0

1



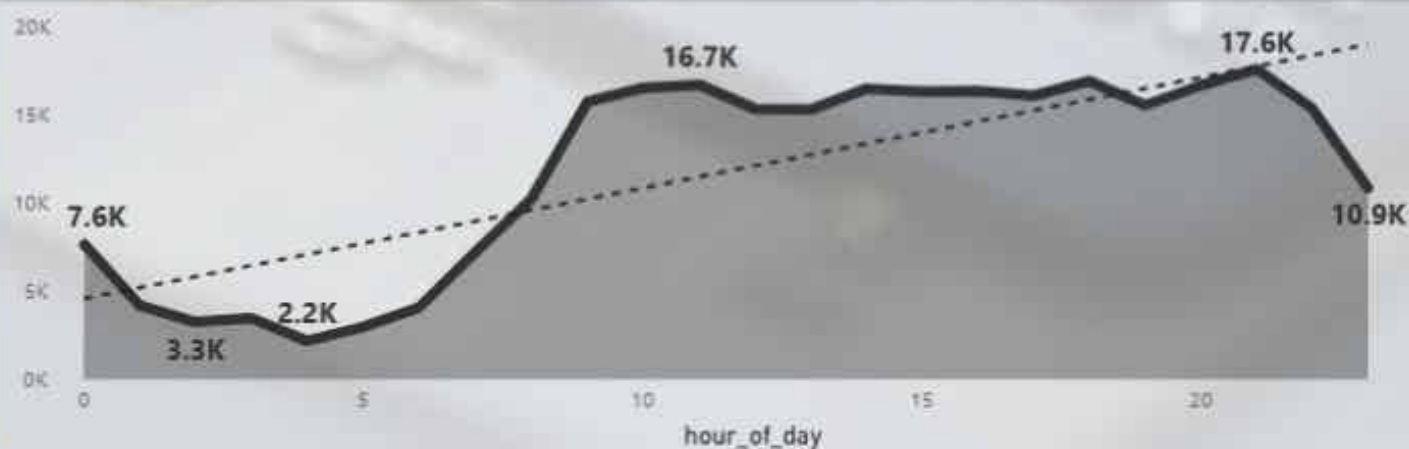
Amount Distribution



Transactions above 1000



Trend by hour of the day



~ 0 refers to non-fraud transactions

~1 refers to fraud transactions



Total Transactions  
0.47K



Fraud transactions  
473



Non Fraud transactions  
283K



Select transaction type

0

1

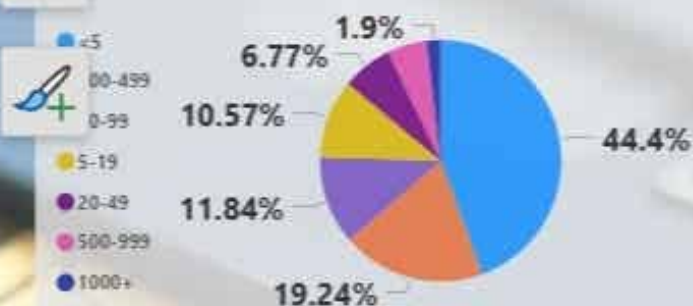


~ 0 refers to non-fraud transactions

~1 refers to fraud transactions



Amount Distribution



Transactions above 1000



Trend by hour of the day



## Observations:-

- 💡 Fraud transactions are extremely rare but high-risk.
- 💡 Majority of fraud transactions fall in the \$1-\$19 and \$1000+ ranges showing two suspicious spending patterns.
- 💡 Only 1.08% of all transactions are above \$1000, but fraud rate here is ~1.7x higher than than the overall dataset's fraud rate causing high financial risk.
- 💡 Fraud transactions spik notably around 11 AM and 2 PM, suggesting fraudsters may exploit high-traffic transaction periods to avoid detection.
- 💡 Fraudulent transactions shows greater irregularities in amount distribution indicating less 'average' and more likely to appear at extreme values.

## Actionable Points for monitoring:-

- 🔑 Keep a time-based watch during 11AM & 2PM.
- 🔑 Implement extra verification for \$1000+ transactions.
- 🔑 Watch for very small-value transactions that could be fraud tests.