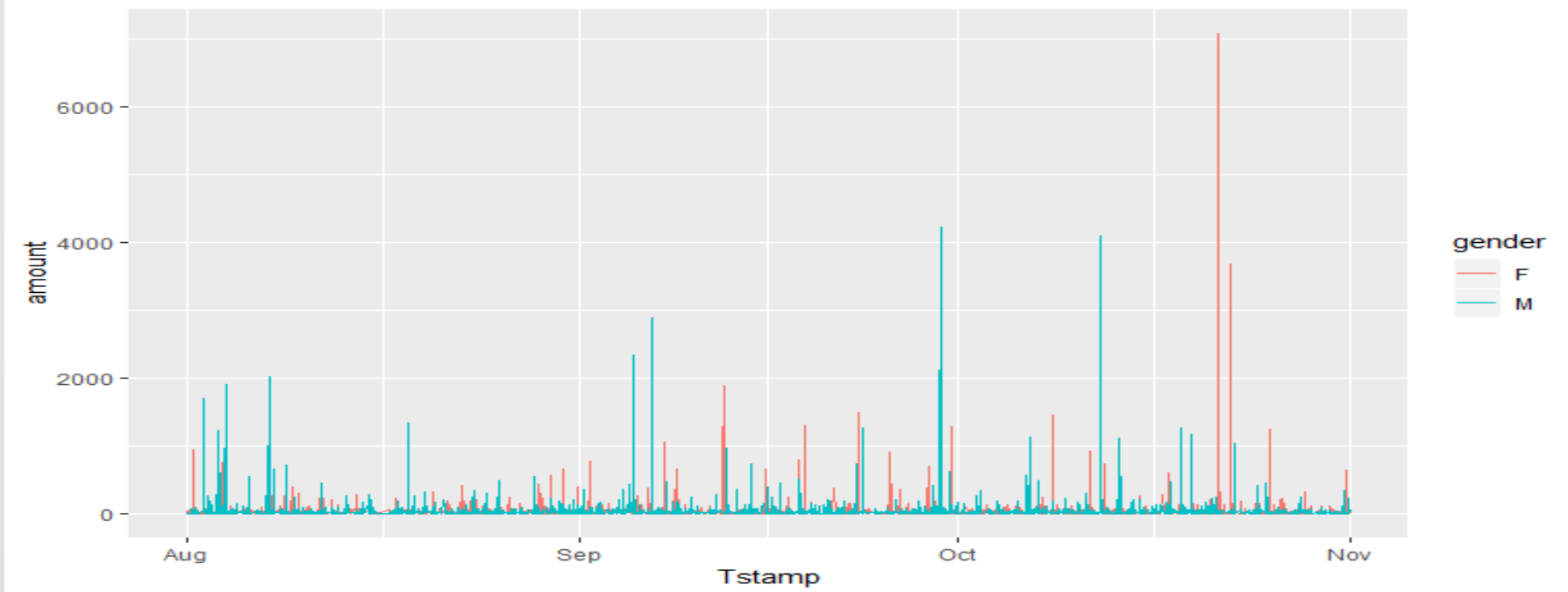




Synthesised Transaction Analysis

Submitted by:-

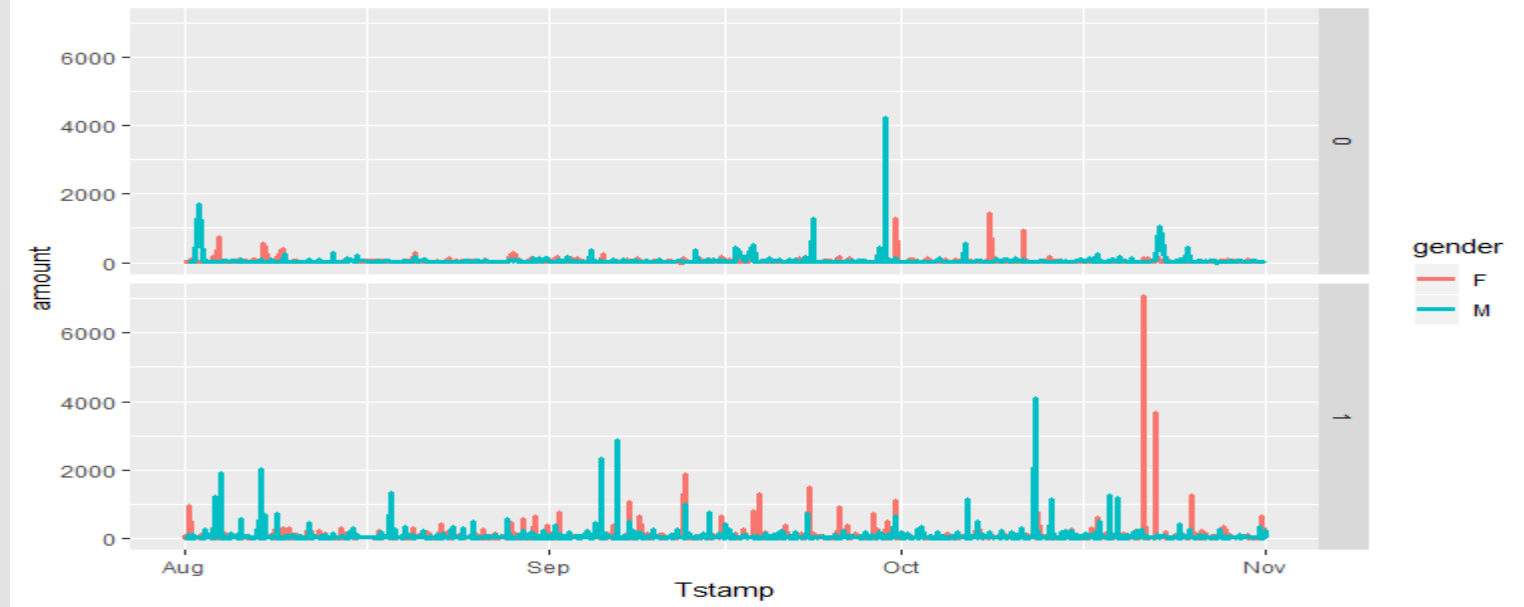
Vedant Bhatt



Plot-name: time-series chart of Amount v/s Timestamp categorised by gender-colour

Here is above plotted time-series graph we can see that the amount of transactions made by customers in second last quarter months i.e. between August to September were comes in the range up to 2000 and maybe slightly above

But if we see the amount of transaction made by customers in last quarter months of the year i.e. between October to November then it will be ranged up to 4000 and slightly more along with some exceptional high amount transactions of 6000+ which was made by female-customers

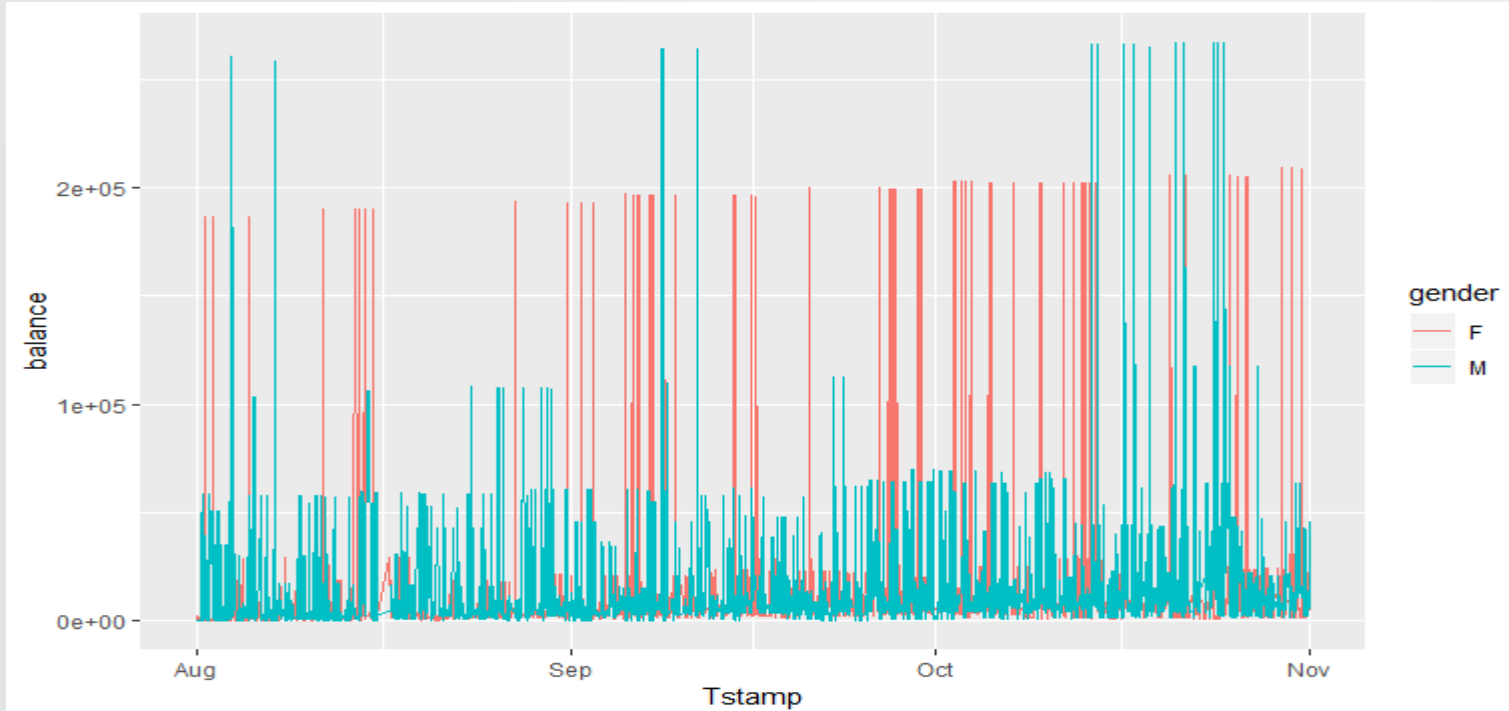


Plot-name: Time-series chart of Amount V/s Timestamp categorized by Gender & separated by card_presence_flag

Here in the plot , zero(0) symbolizes to the customers with absence of card

Whereas one(1) symbolizes to the customers with presence of card.

And in the plot we can see that the customers with presence of card had bigger amount of transactions as compared to the customers with the absence of card .



Plot-name: Timeseries-chart for Balance v/s Timestamp categorized by Gender-colour

Here we can see that in the plot that the amount of transactions made by female-customers in last quarter of the year is very exceptional(i.e. 6000+) in the reference of plot :amount v/s timestamp categorized by gender colour [slide number: 3]

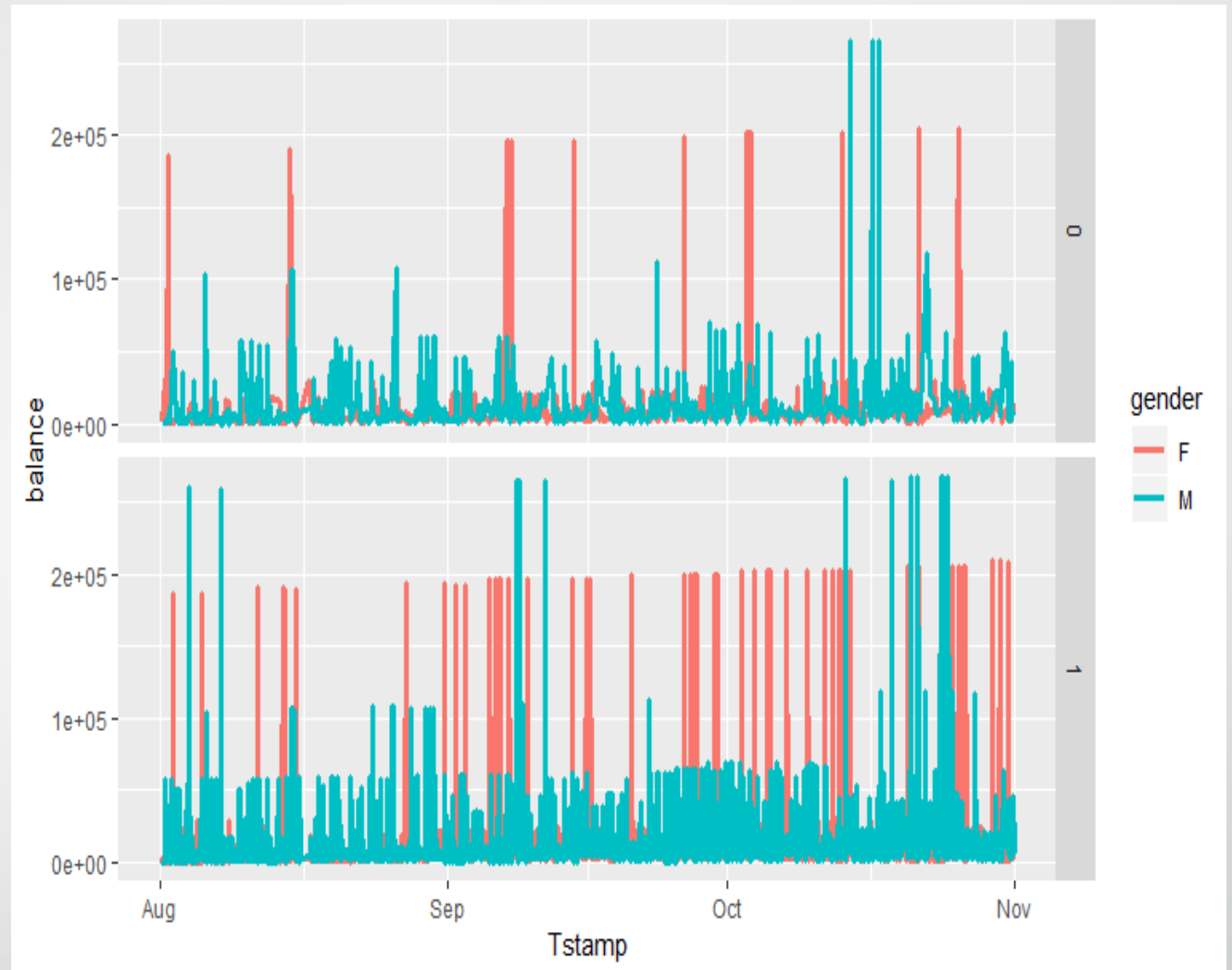
Due to that scenario in the current plot the balance of female customers in last quarter months of year is low than that of male customers , whereas male customers had maintained average balance up to $1e+05$ & female customers with balance up to $2e+05$.

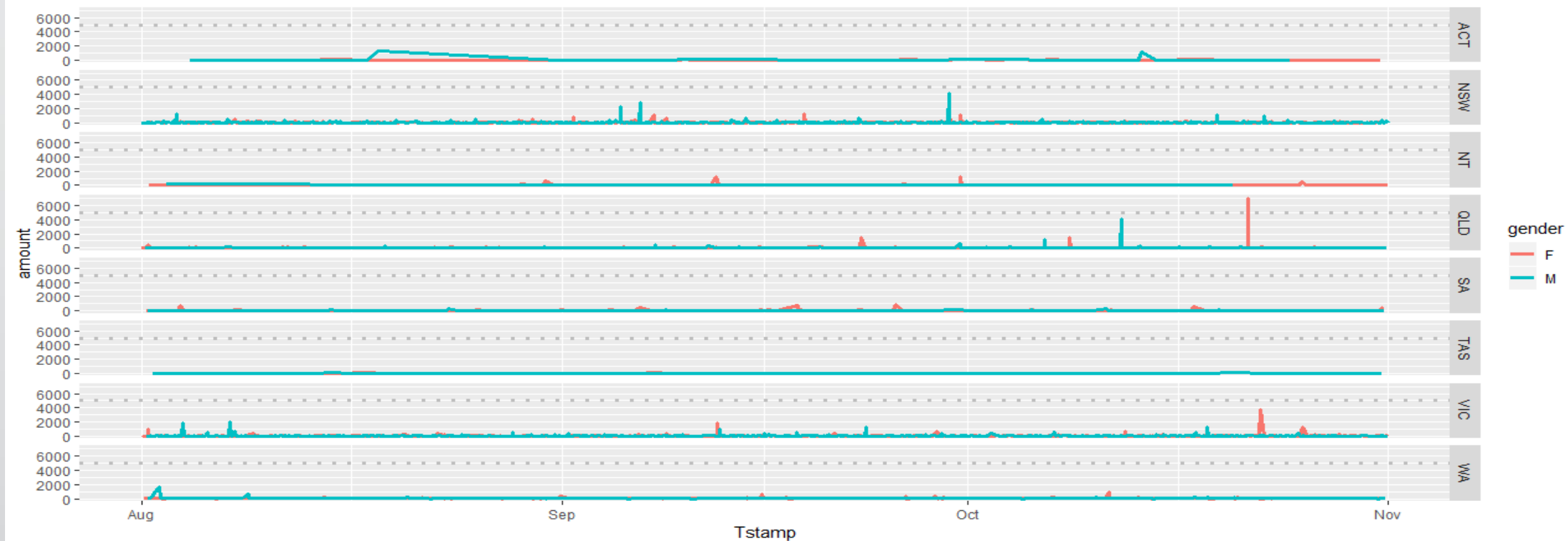
Plot-name: Time-series chart of Balance V/s Timestamp categorized by Gender & separated by card_presence_flag

Here, zero(0) symbolizes to the customers with absence of card

Whereas, one(1) symbolizes to the customers with presence of card.

Here in this plot we can see that the female & male both type customers with the presence of card were able to maintained the balance for long-run & with good amount of balance(if we talk about the female customers with presence of card) as compared to the other customers with absence of card





Plot-name : time-series chart of Amount v/s Timestamp categorized by Gender colour & separated by individual Merchant states

Here we set the 5000 AUD as a threshold amount of transaction

Here in the plot we can see that there is higher instability in amount of transactions made by customers of NSW , VIC ,QLD & ACT means the customers of this following merchant states had some higher amount of transactions as compared to the others merchant states.

Here we can also see that there is a lot of transactions made by female customers of merchant state ACT & NT .

Along with that there is a transaction made by female customer of merchant state QLD who crossed the threshold of 50000 AUD transaction.

Plot-name: Box-plot of Balance v/s Merchant state categorised by merchant-state colour

Here in the plot you can see that there is large numbers of customers with VIC merchant state (along with NSW & QLD) who were maintained the exceptional amount balance while transaction of money as there is many outliers in boxplot of those merchant states

But here the average of several customers for maintained balance during transaction of money is almost same for the all merchant states

