**Using Data Analysis for Detecting Credit Card Fraud**

1. Change in frequency of orders placed.

Slight variation in the transaction orders of the user.

Sudden change in delivery preferences.

Orders that are normally higher than the user average transaction.

Unusual shipping address

1. Empty transaction value for Johnp (purchase of 1 unit of home décor) [H3].

Unusual Shipping address which has no IP address for Johnp [A6].

User - Johnp have an irregular date pattern compared to others.

1. Johnp on the 3-06-20 made a transaction for electronics twice, to the same shipping address but different IP address and there was an increase in his transaction value which is higher than his previous transactions.

Ellend have using same IP address and shipping address but the last transaction which have a purchase of high transaction value have a different IP address and shipping address.

1. The data visualization provided shows a smooth transaction for user ID Davidg whereas the other users Johnp and Ellend shows fraudulent acts in their transaction value/transaction.
2. Descriptive Analytics

Diagnostic Analytics