# About The Data

| | Order ID | Amount | Profit | Quantity | Category | Sub-Category |
|---|---|---|---|---|---|---|
| 0 | B-25601 | 1275.0 | -1148.0 | 7 | Furniture | Bookcases |
| 1 | B-25601 | 66.0 | -12.0 | 5 | Clothing | Stole |
| 2 | B-25601 | 8.0 | -2.0 | 3 | Clothing | Hankerchief |
| 3 | B-25601 | 80.0 | -56.0 | 4 | Electronics | Electronic Games |
| 4 | B-25602 | 168.0 | -111.0 | 2 | Electronics | Phones |

There are 1500 columns and 6 rows, there are 3 categories and 17 sub-categories of products
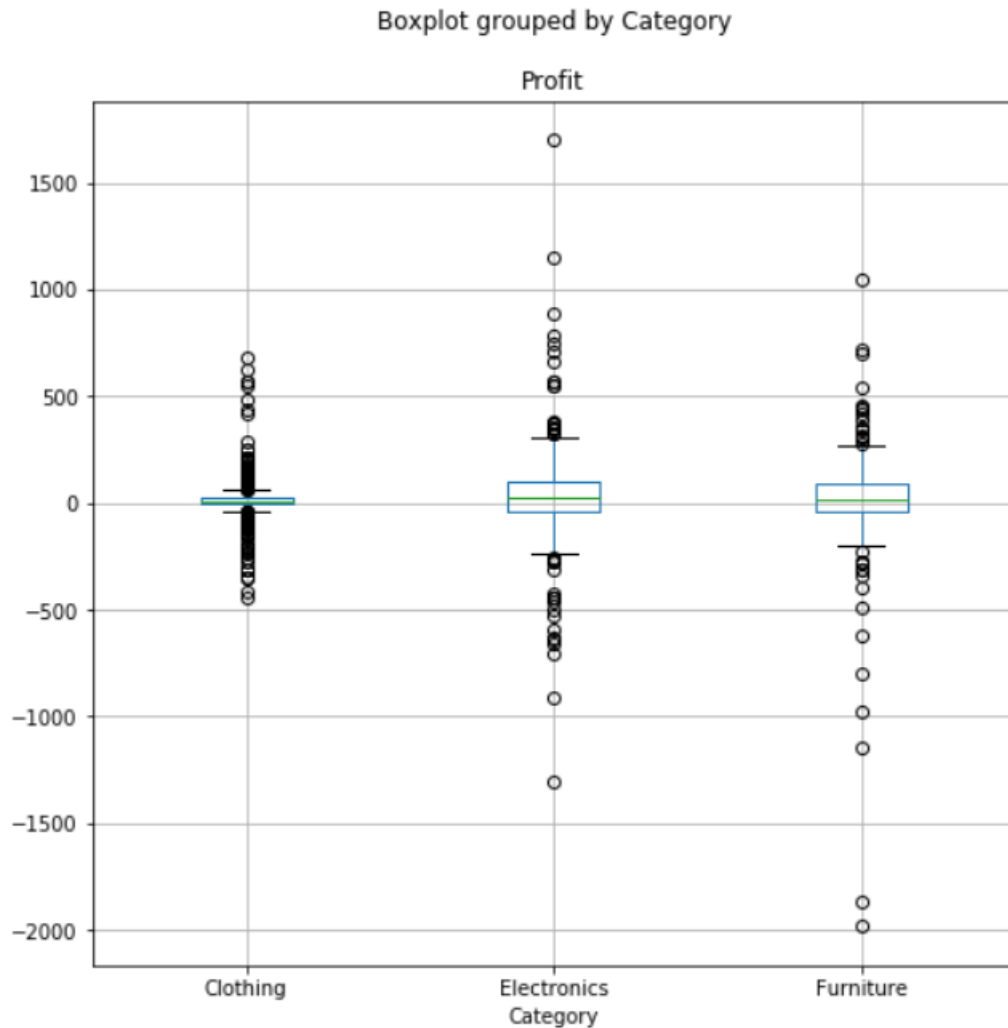
# Analysis are as follows-

## 1)Analysis on categories-



categoy vs profit
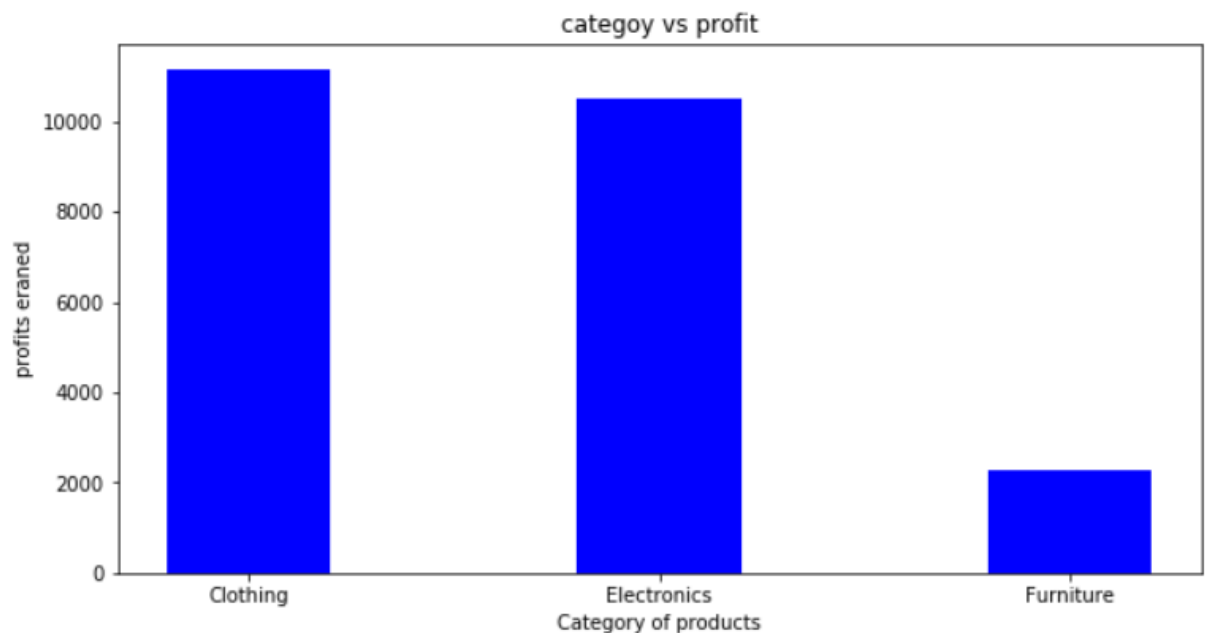
As per the above diagram clothing and electronics products are most profitable, so we should invest more in our clothing and electronics

goods and at the same time we should be more concerned about our furniture categories


Boxplot grouped by Category

As per boxplot analysis, some of our furniture goods suffer heavy losses followed by electronic goods and clothing. At this point of time we should take reviews from our customer we should try to figure out the causes behind loses on our furniture goods

categoy vs order
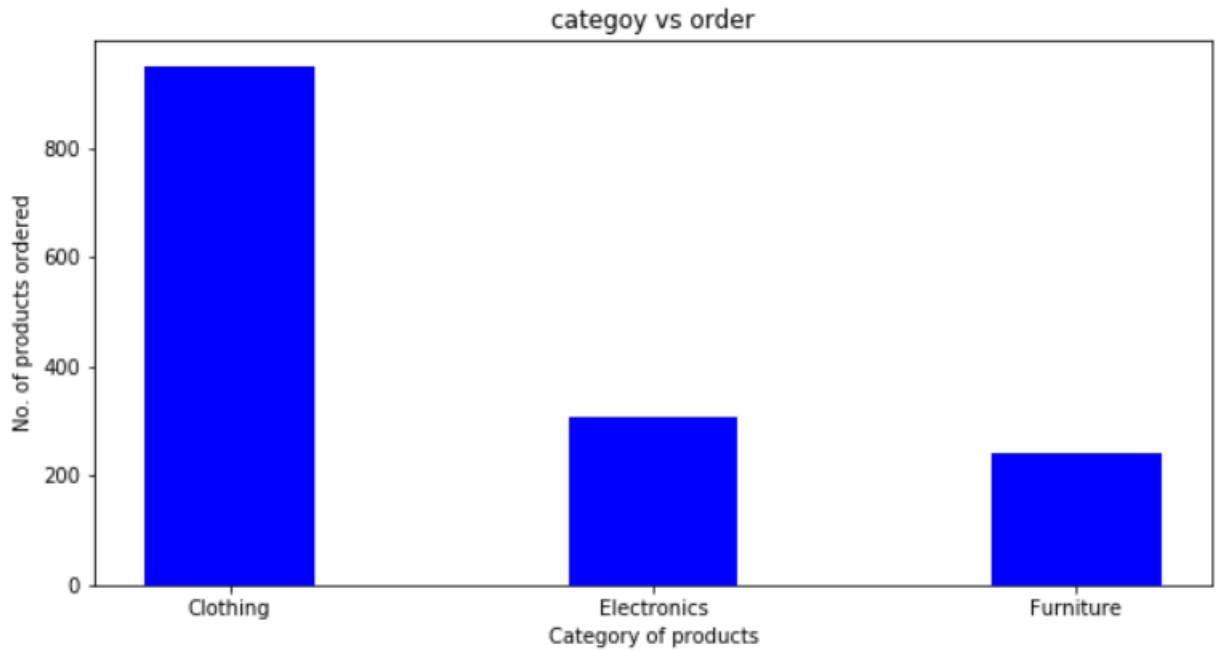
From the above bar chart, we can say that the order for clothing is marginally more than electronic and furniture goods. So we can surely invest more in clothing and again we should look into the matter why people are not ordering much in furniture category
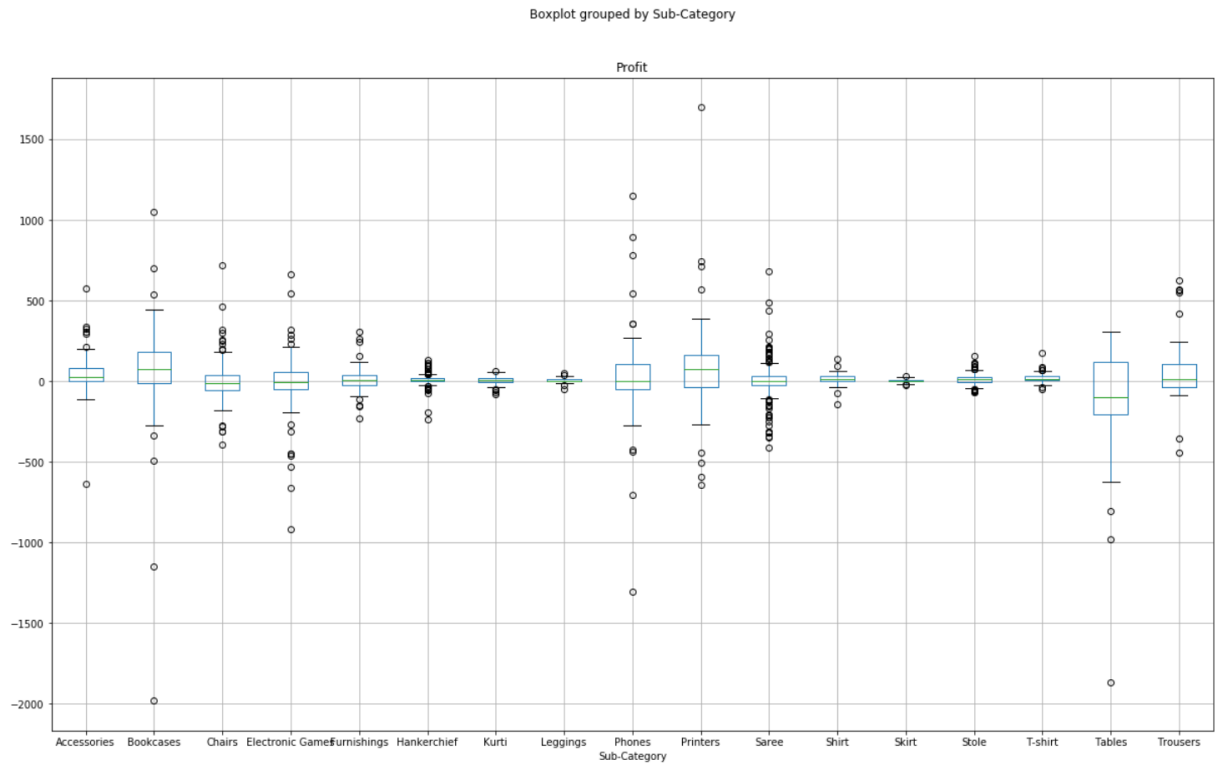
# 2)Analysis on Sub-Category-

| SubCategory | |
| --- | --- |
| Saree | 210 |
| Hankerchief | 198 |
| Stole | 192 |
| Phones | 83 |
| Bookcases | 79 |
| Electronic Games | 79 |
| T-shirt | 77 |
| Chairs | 74 |
| Printers | 74 |
| Furnishings | 73 |
| Accessories | 72 |
| Shirt | 69 |
| Skirt | 64 |
| Leggings | 53 |
| Kurti | 47 |
| Trousers | 39 |
| Tables | 17 |

The above picture is showing the number of items sold for every sub-category in decreasing order. Cleary we can say saree is our top product followed by a handkerchief and stole etc and the table is our least sold item

Sub-categoy vs Profit
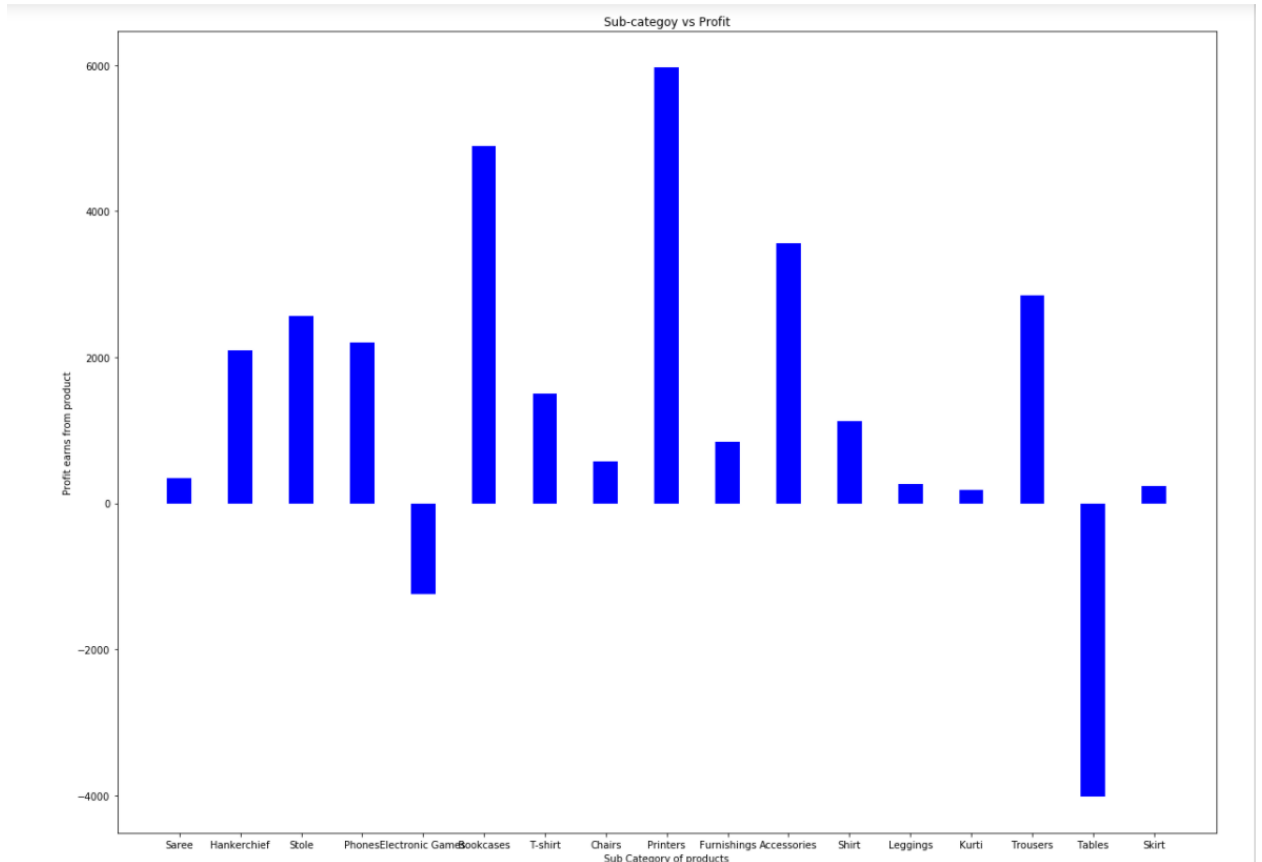
From the above diagram, we can say that printers and bookcases are our top items whereas we are making a huge loss in tables and electronic games, so my advice will be checking the feedback from users and will work according to that and it will be a safe investment in sub-categories lie printers, trousers, accessories and bookcases

Boxplot grouped by Sub-Category

The above boxplot analysis shows various profits earned from a given sub-category, we can clearly say that most of the profits for the table are in negative values this shows table is our most loss-making product.