

**Vyasa Arts & Science Women's College**  
**Subramaniapuram**  
**DEPARTMENT OF MATHEMATICS**  
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A project documentation on the topic -  
Estimation of business expenses

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## Estimation of business expenses

## 1. INTRODUCTION:

## 1.1 OVERVIEW

Business expenses provides a visual exploration of the various expenditures incurred by different businesses. It showcases the distribution of expenses, identifies key cost drivers, and highlights areas of potential optimization or concern. The visual representation allow for intuitive analysis, facilitating a deeper understanding of expenditure patterns and their implications for business performance. Decision- makers, financial analyst, and stakeholders can give valuable insights into the financial health of business, identify areas of inefficiency or opportunity, and make informed decisions to optimize resources and drive growth. To extract the Insights from the data and put the data in the form of visualization, Dashboards and Story we employed Tableau tool.

## 1.2 PURPOSE

Provide a clear vision about expenditure. Encourage team work and co-operation when doing a partnership in business. By the way it makes us to analyse one's business with it's expenditure. Losses should be balanced by the savings which is also included on the expenses. It helps us to gain valuable insights into the financial health of business.

## 2.PROBLEM DEFINITION AND DESIGN THINKING:

### 2.1. Empathy Map:



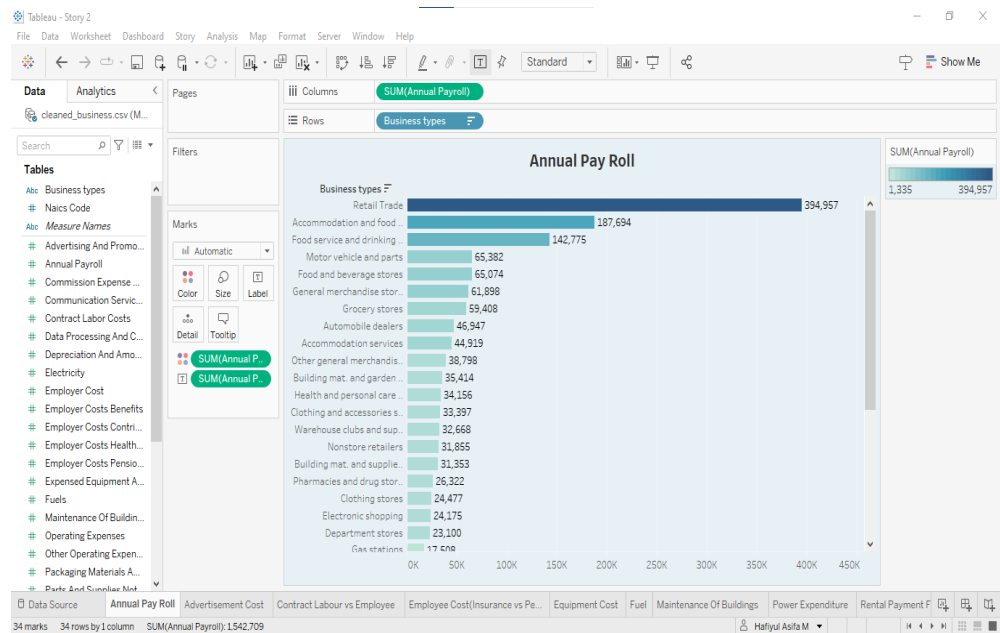
## 2.2 IDEATION AND BRAINSTORMING:



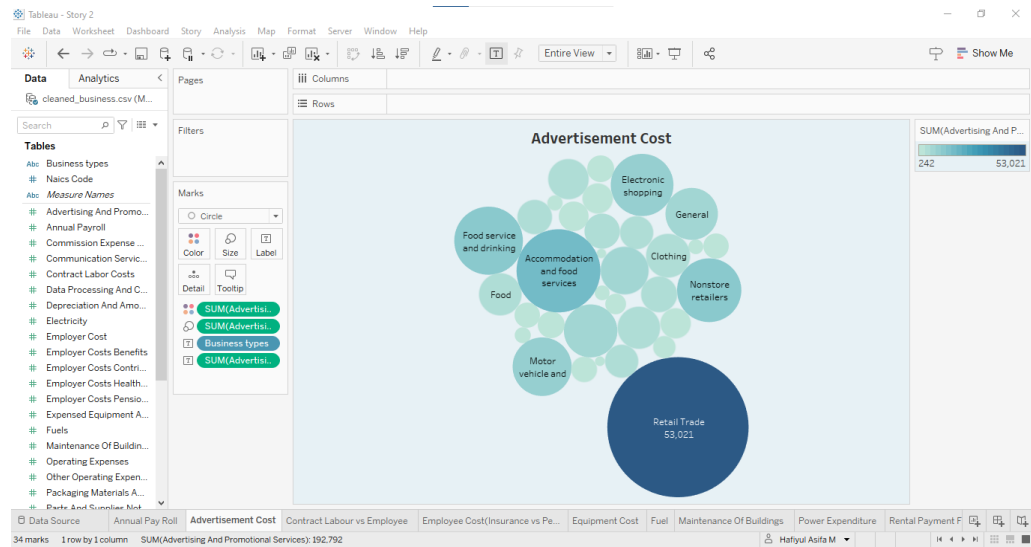
## 3.RESULTS:

### 3.1: Charts:

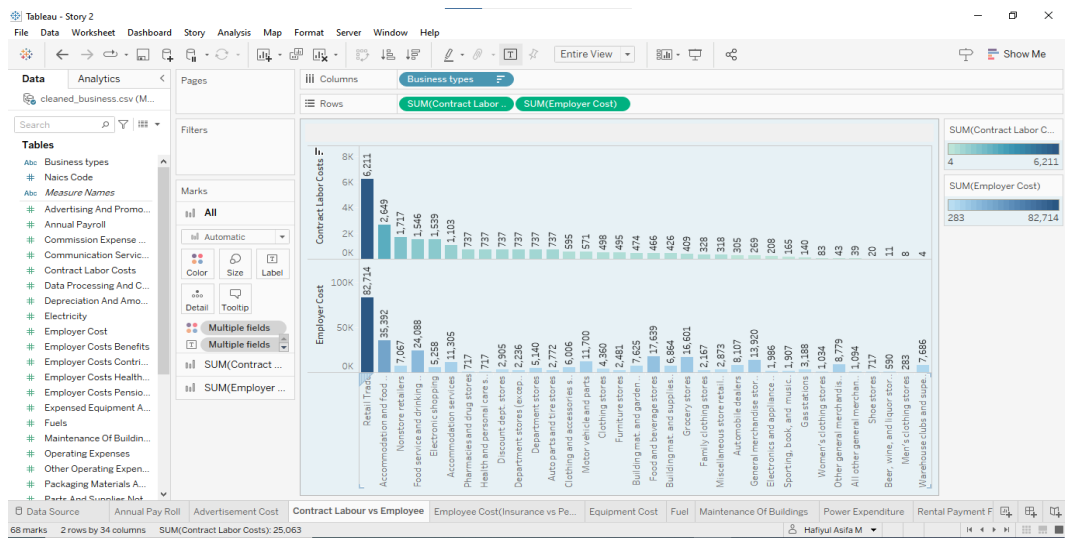
#### a)Annual Payroll



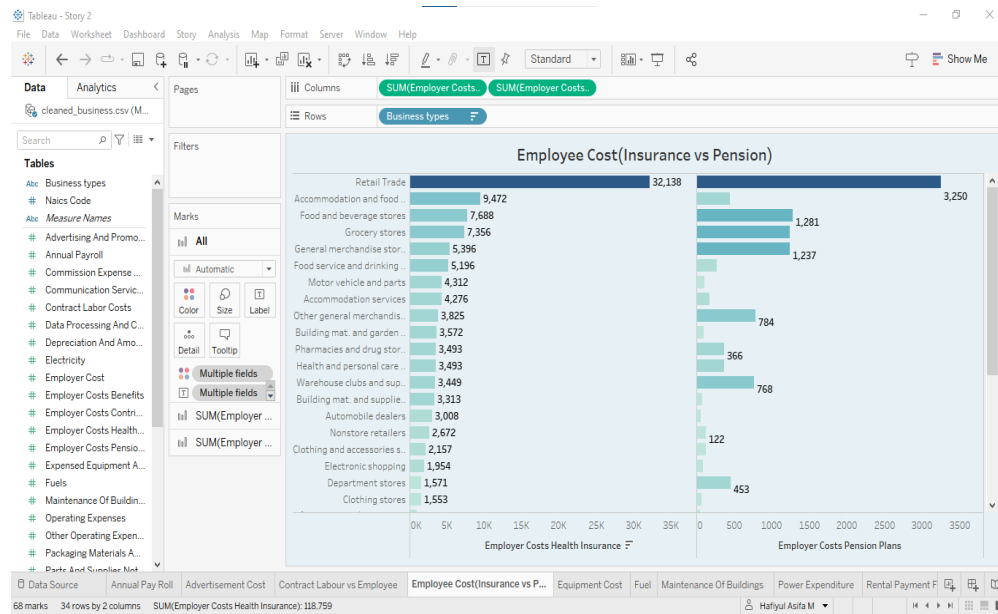
## b) Advertisement Cost



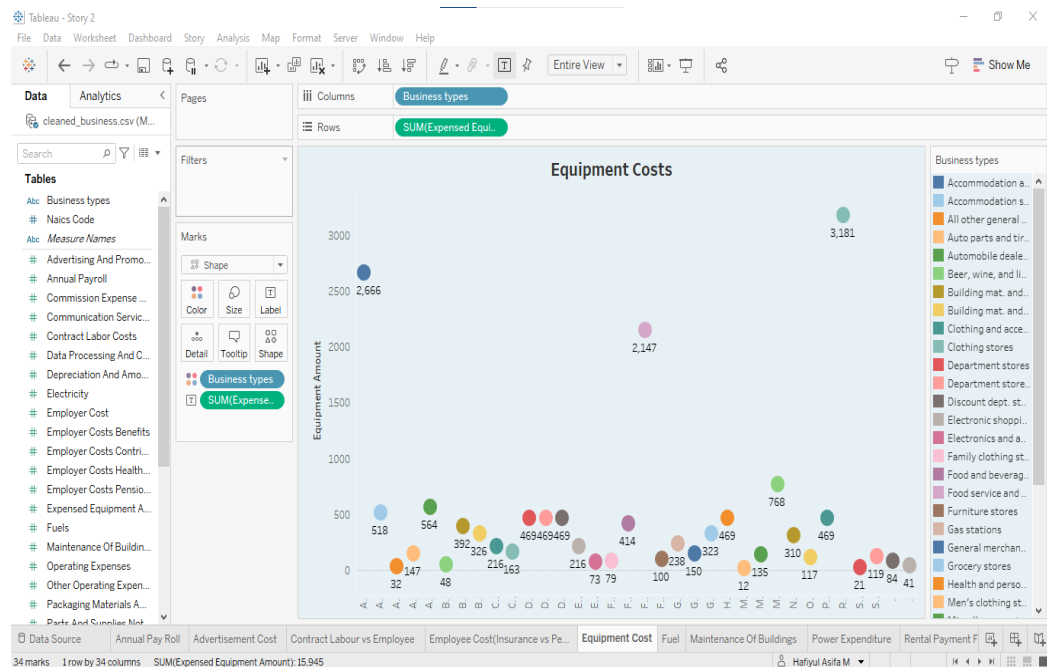
## c) Contract Labour vs Employee



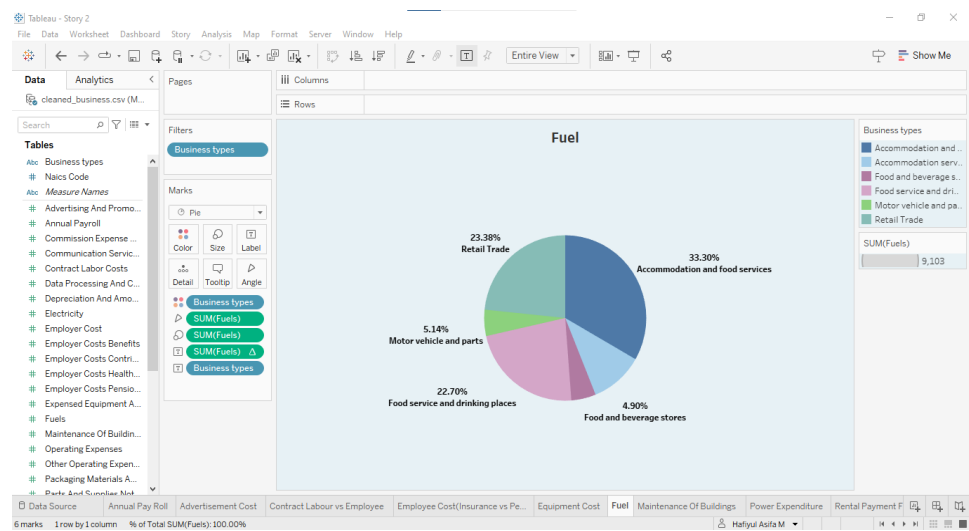
## d)Employee Cost (Insurance vs Pension)



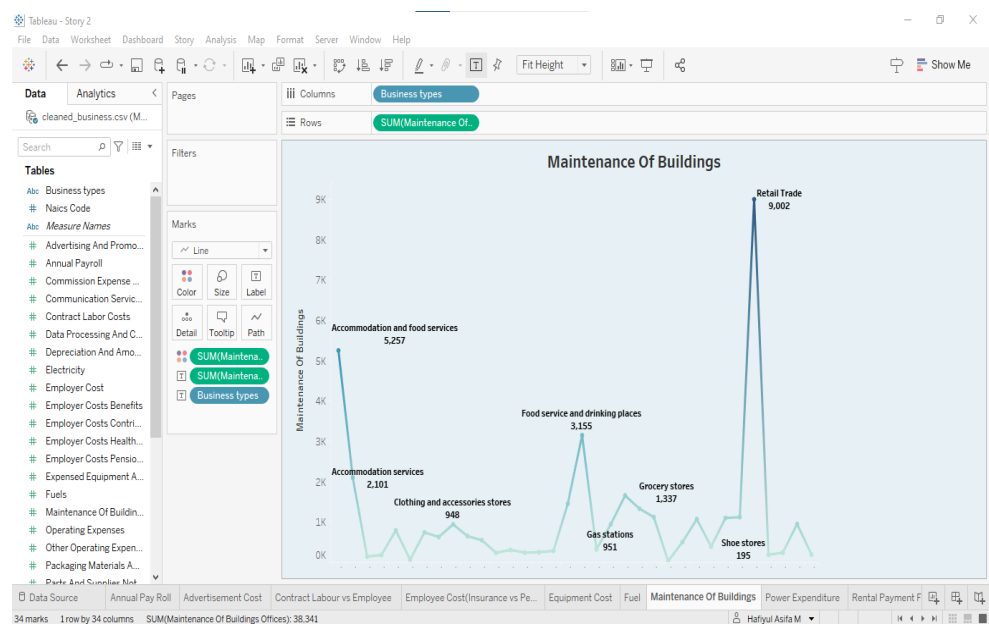
## e)Equipment Cost



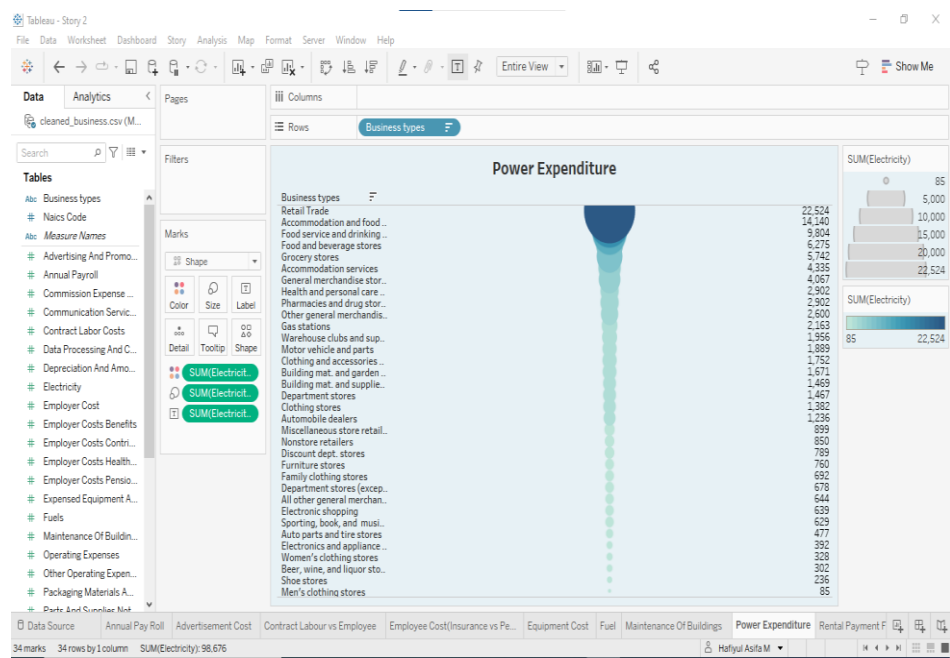
f)Fuel



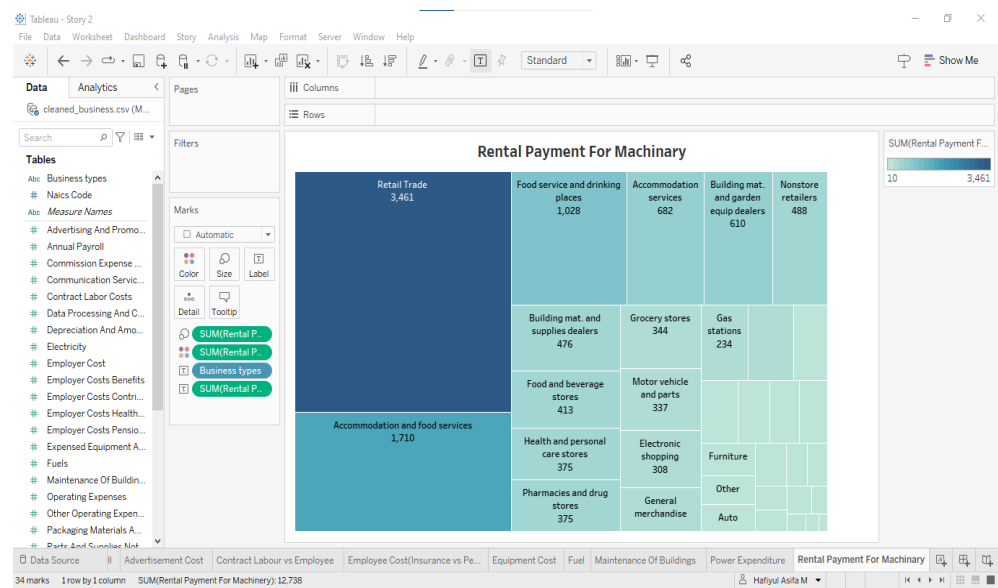
g) Maintenance of Buildings



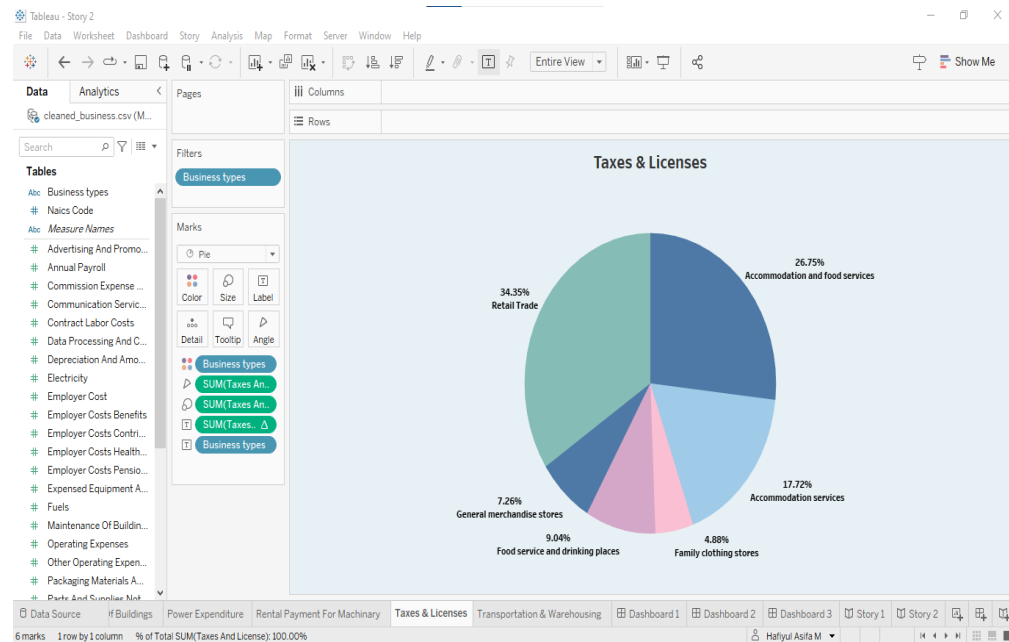
h) Power Expenditure



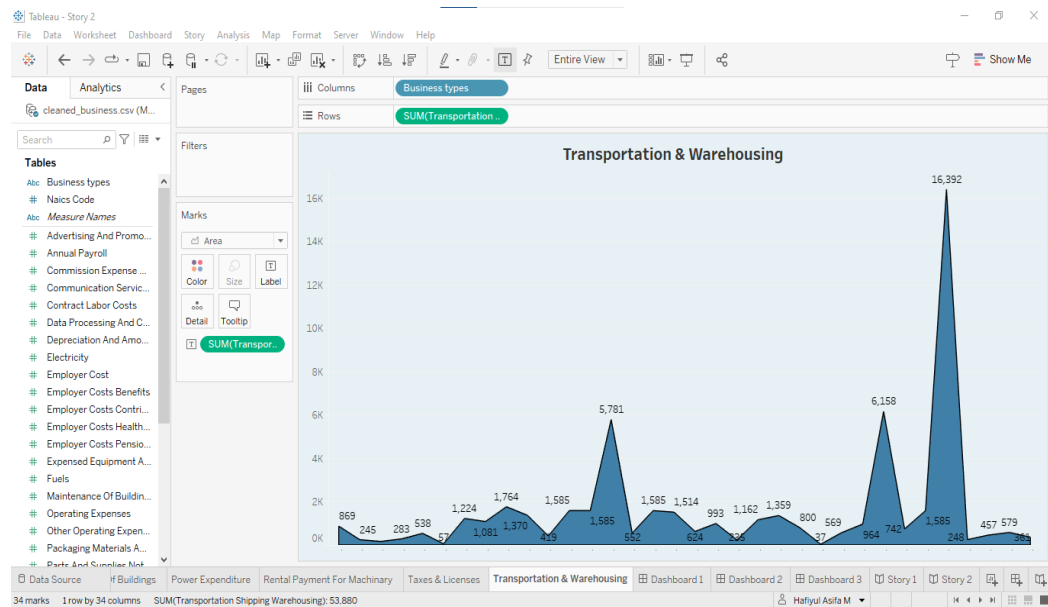
i) Rental Payment for Machinery



## j) Taxes & Licenses

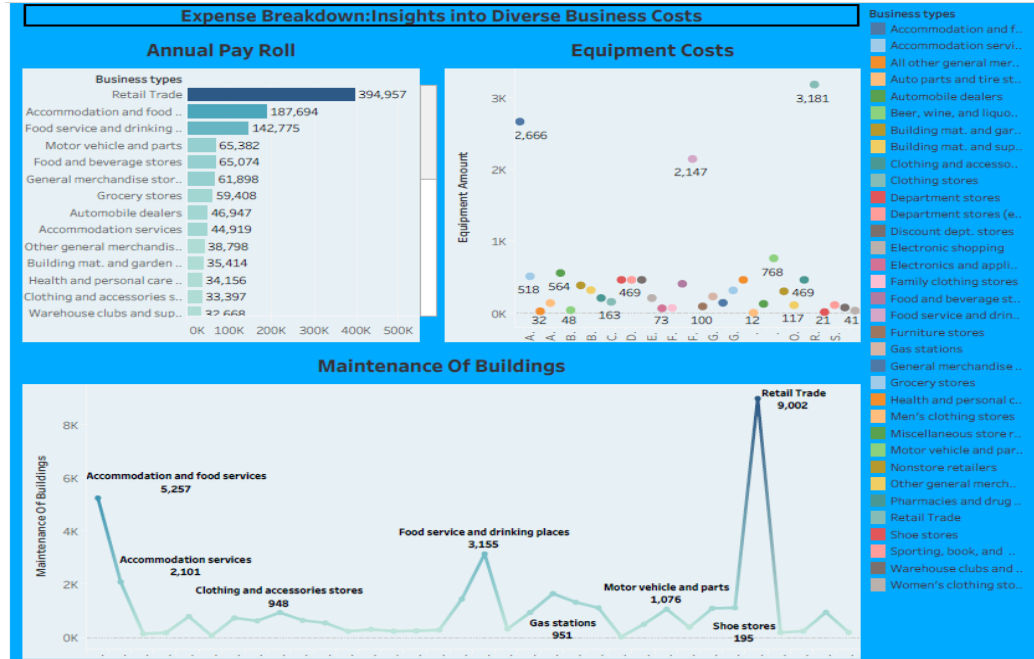


## k) Transportation & Warehousing

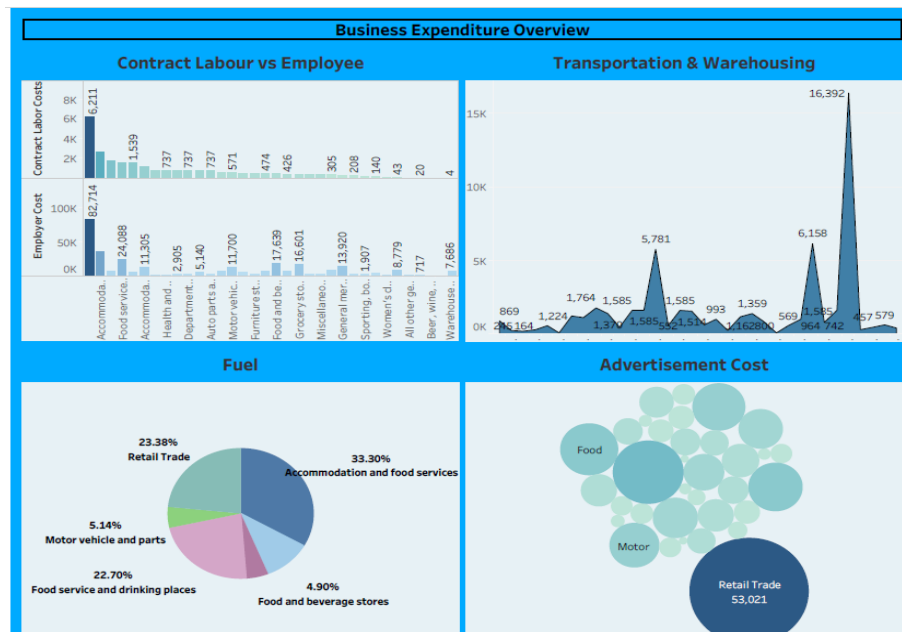




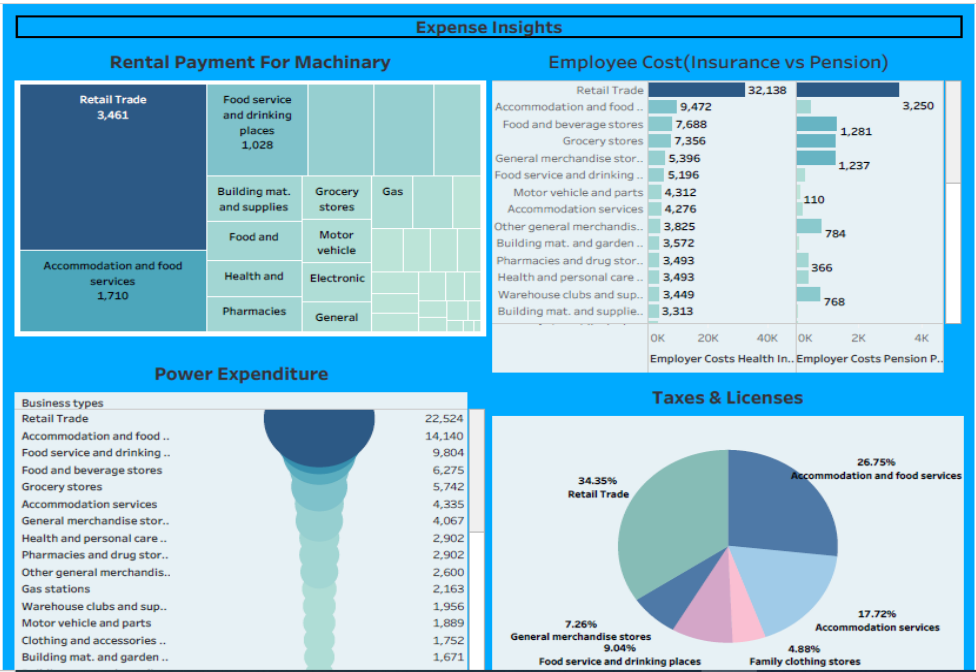
## Dashboard 1



## Dashboard 2

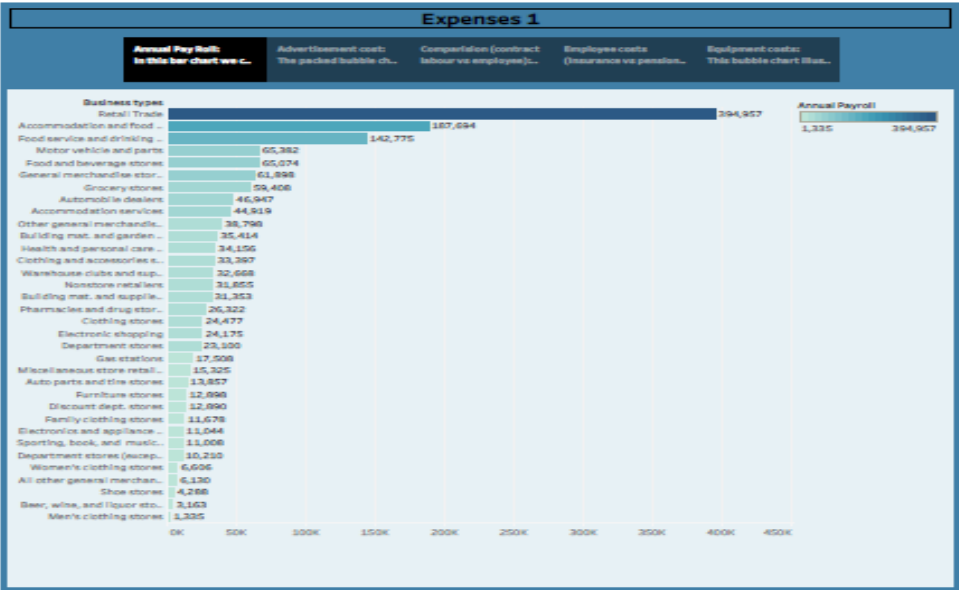


Dashboard 3

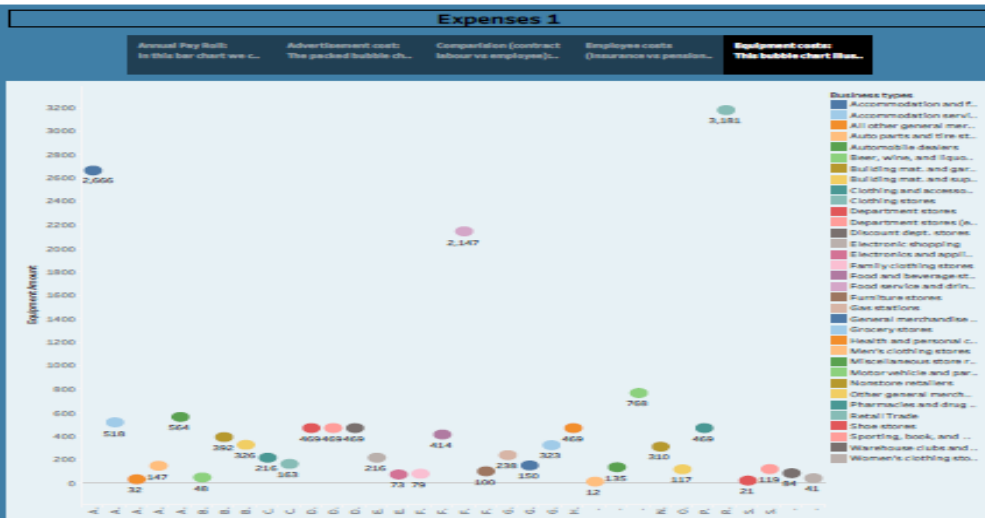
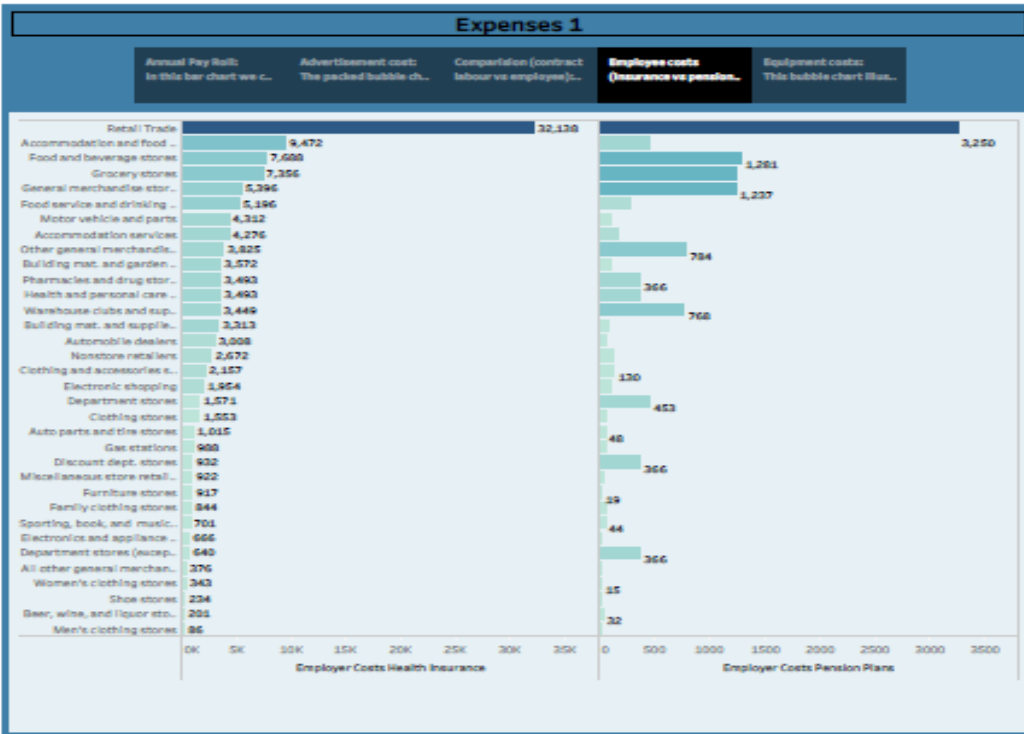


3.3 STORY

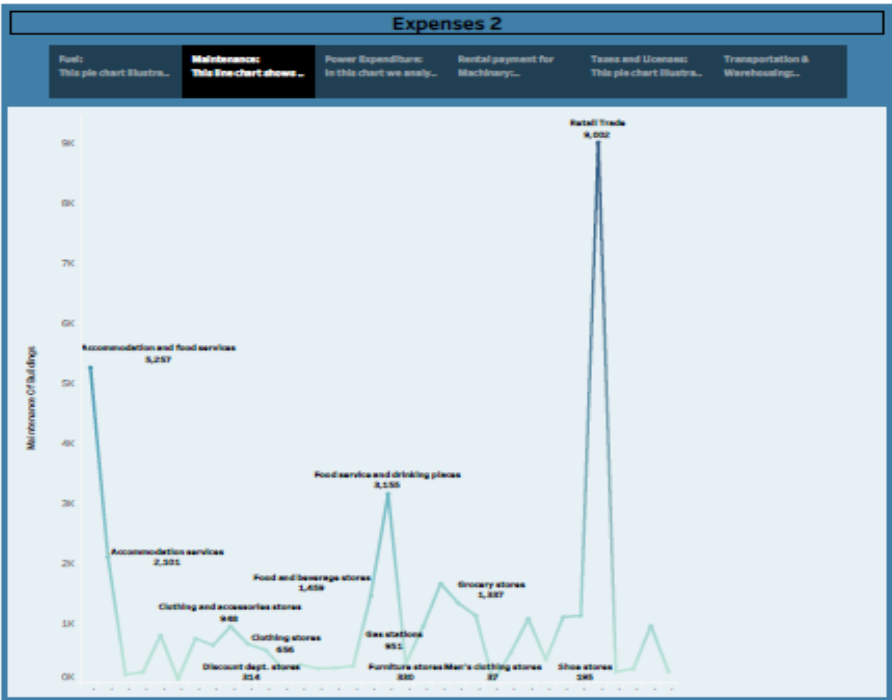
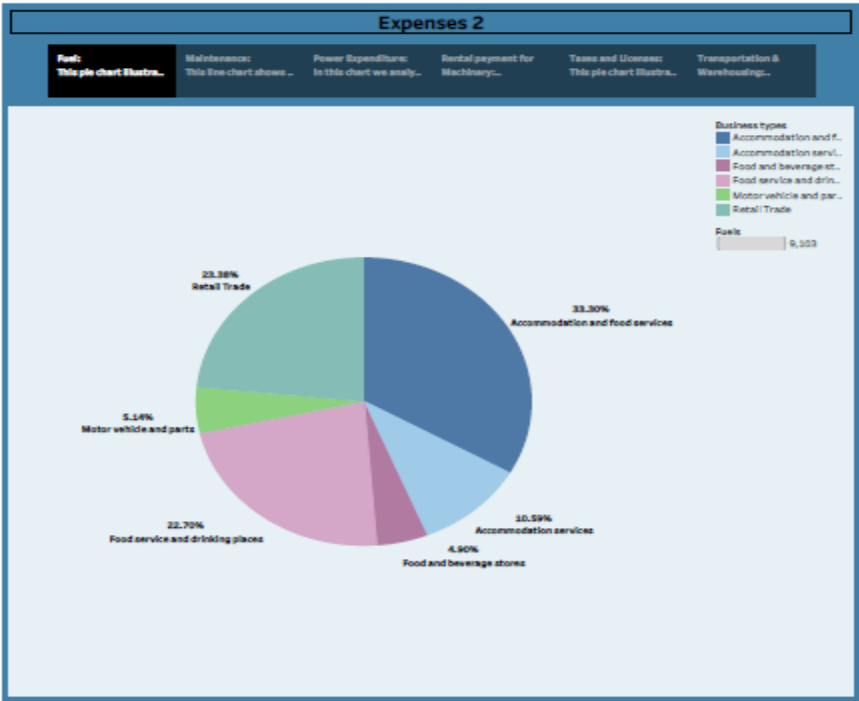
Story 1

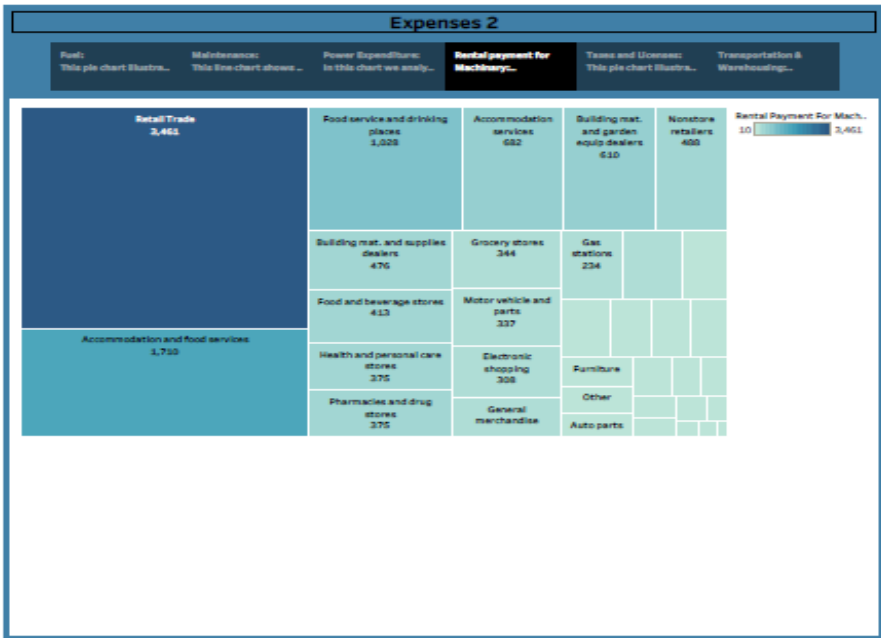
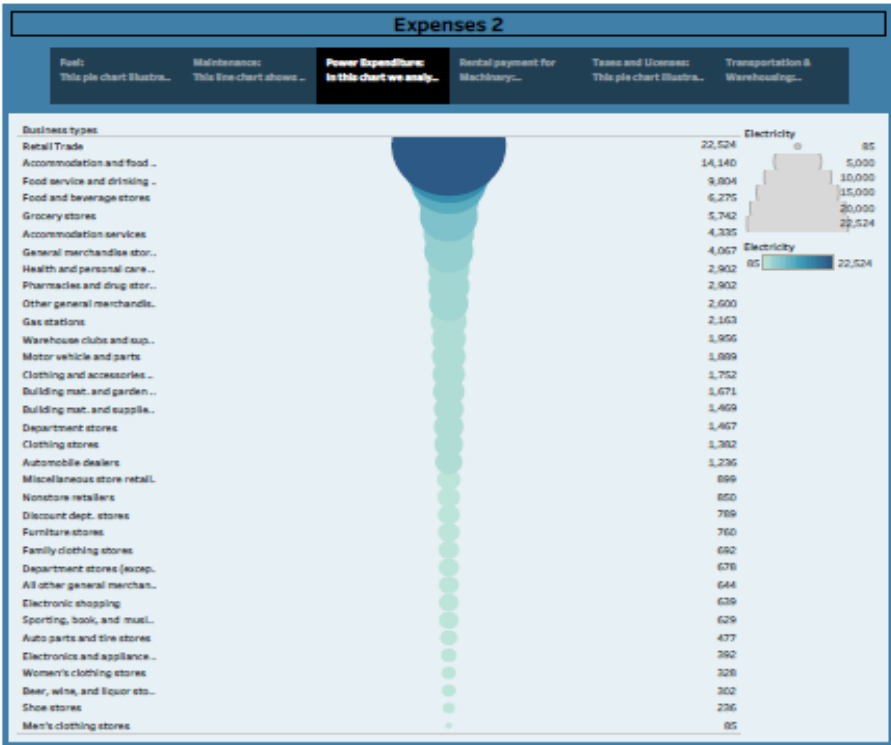


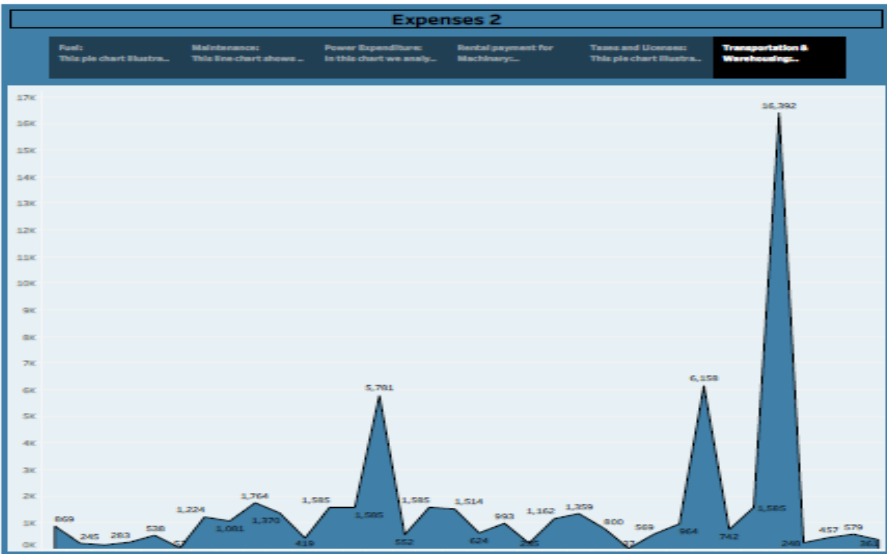
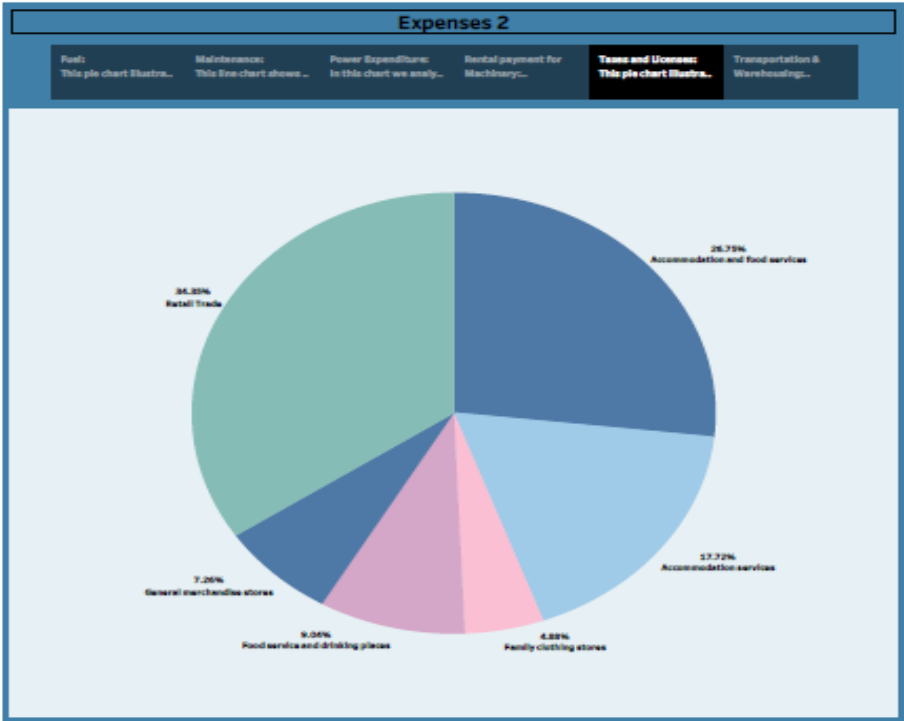




Story 2







## 2. ADVANTAGES & DISADVANTAGES:

### 4.1 ADVANTAGES

- By analysing the data we may Increase the company profits..
- We can maintain the competitiveness.
- Highlights our profit according to the season.
- We can identify areas of insufficient.
- The process of estimate all of the cost associated with completing a project within scope and according to its timeline.

### 4.2 DISADVANTAGES

- It requires huge investment cost such as transportation,raw materials, employees etc.,
- Duplication of business ideas.
- Cost keep changing every interval.
- The accounting report is based on estimates.

## 3. APPLICATIONS:

- Versality of business.
- The information gathered from business loss analysis is used to improve our business profit.
- It's aim is to deliver good quality and quantity products which do not affect the business expenses.
- This estimation is often used to check the accuracy or correctness of the final answers.

## 4. CONCLUSION:

In this project estimation of business expenses is analysed with the help of tableau. For this, data are collected from various sources. At first,



we define the problem in the form of empathy map and brain storming. Then the collected data set are connected to the tableau and we created various charts like tree charts, donut charts, map charts. Finally, we create dashboard and story using three charts. Also from these charts we analysed the estimation of business expenses in various sectors.

## 5. FUTURE SCOPE:

- Business that are based on collaborative economy models will enjoy immense success in the next few years.
- Social impact investment fund will yield a very good profit in future.
- Expanding of business according to the business profit or loss.
- Opening many branches which is suitable to our expenses.