



Estimation of Business Expenses

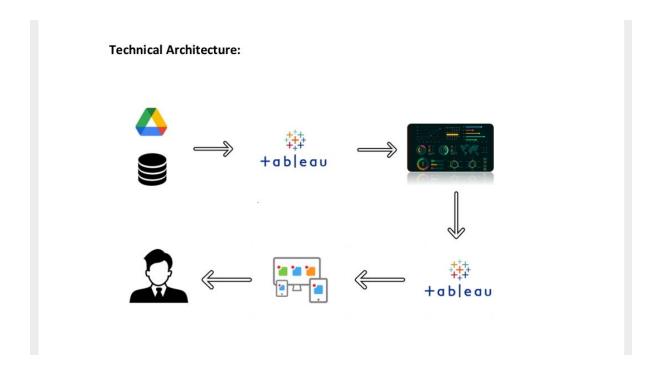
Project Based Experiential Learning Program

Handbook

SmartBridge Educational Services Pvt. Ltd.

Estimation of Business Expenses

This report delves into the fascinating realm of business expenses and 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 representations allow for intuitive analysis, facilitating a deeper understanding of expenditure patterns and their implications for business performance. Decision-makers, financial analysts, and stakeholders can gain valuable insights into the financial health of businesses, 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 visualizations, Dashboards and Story we employed Tableau tool.



Project Flow:

To accomplish this, we have to complete all the activities listed below,

- Define Problem / Problem Understanding
 - o Specify the business problem
 - o Business requirements
 - o Literature Survey
 - o Social or Business Impact.
- Data Collection & Extraction
 - o Collect the dataset
 - o Connect Dataset with Tableau
- Data Preparation
 - o Prepare the Data for Visualization
- Data Visualizations
 - o No of Unique Visualizations
- Dashboard
 - o Responsive and Design of Dashboard

- Story
 - o No of Scenes of Story
- Performance Testing
 - o Amount of Data Rendered to DB
 - o No of Calculation Fields
 - o No of Visualizations/ Graphs
- Web Integration
 - o Dashboard and Story embed with UI With Flask
- Project Demonstration & Documentation
 - o Record explanation Video for project end to end solution
- o Project Documentation-Step by step project development procedure

Milestone 1: Define Problem / Problem Understanding

Activity 1: Specify the business problem

Refer Project Description

Activity 2: Business requirements

The primary business requirements for this report are to visualize and analyze business expenses, provide industry-specific insights, identify cost drivers, highlight outliers, and offer interactive functionality. Stakeholders need a visual representation of expenses to compare and analyze spending patterns across different businesses and industries. The report should facilitate the identification of key cost drivers, enabling stakeholders to understand the primary factors contributing to expenses. Additionally, it should flag any outliers or anomalies for further investigation.

Activity 3: Literature Survey

Cost drivers were a significant focus in the literature survey, with researchers extensively investigating the factors influencing business expenses. Studies highlighted labour costs, material costs, overhead expenses, and marketing expenditures as key drivers. Accurately identifying and tracking these drivers was emphasized as essential for effective expense management and control. The role of technology in expense analysis emerged as a significant theme. Researchers underscored the utilization of advanced data analytics tools and techniques, including data visualization platforms like Tableau, to enhance expense analysis and reporting. These technologies enable businesses to gain deeper insights into their spending patterns, identify trends, and make datadriven decisions for cost optimization.

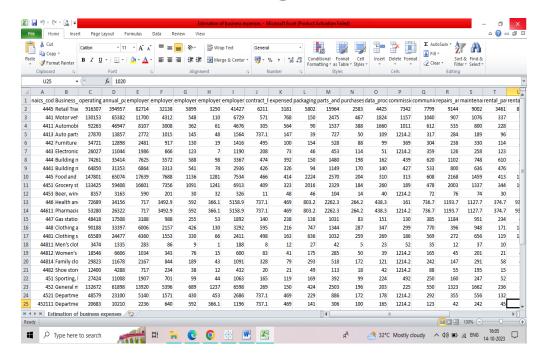
Overall, the literature survey revealed a rich body of knowledge on business expenses, covering cost analysis methodologies, cost drivers, benchmarking approaches, and the role of technology. These insights serve as a foundation for our subsequent analysis and visualization of expenses in this report.

Activity 4: Social or Business Impact.

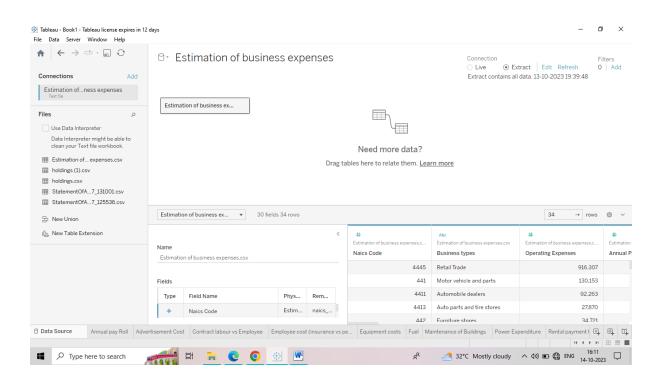
Social Impact: The analysis of business expenses and financial management has a significant social impact. It contributes to economic stability by optimizing costs and fostering long-term sustainability. Effective expense management creates job opportunities and supports the workforce. It allows for better resource allocation, enabling businesses to invest in innovation and community engagement. Responsible expense management aligns with societal expectations and promotes social responsibility. Non-profit organizations benefit from expense analysis, enabling them to maximize their impact. Overall, analysing and managing expenses positively influences economic growth, employment, stakeholder well-being, and social responsibility.

Business Impact: Analysing business expenses has a profound impact on various aspects of business operations. It helps optimize costs, improve profitability, and ensure financial stability. Expense analysis enables businesses to allocate resources effectively, make informed decisions, and create realistic budgets and forecasts. It enhances competitiveness, attracts investors, and mitigates financial risks. By understanding and managing expenses, companies can drive growth, maintain a strong financial position, and make strategic business decisions with confidence.

Downloading the dataset:

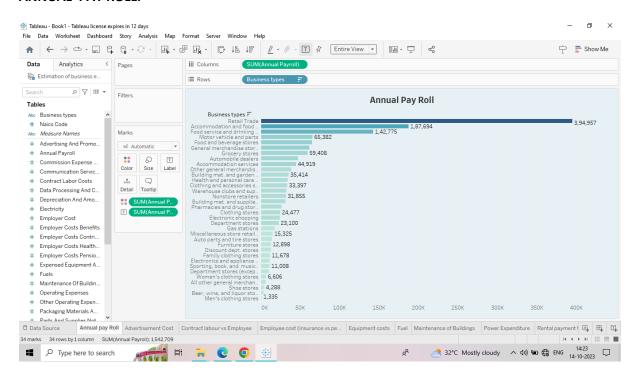


Connect dataset with tableau:

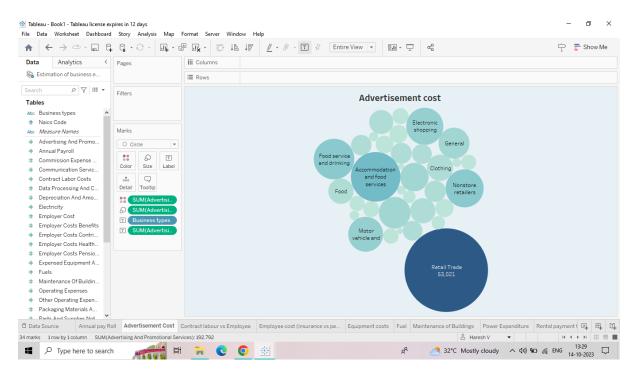


Data visualization:

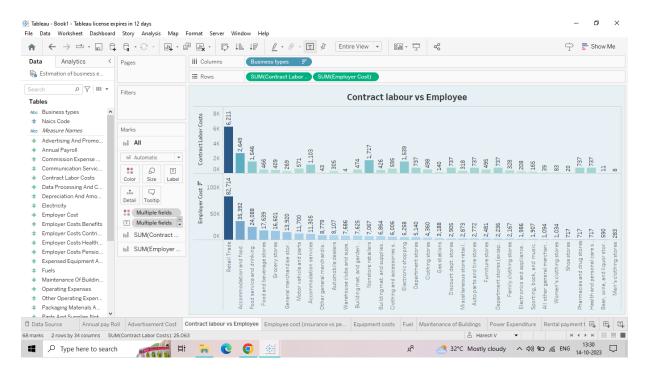
ANNUAL PAY ROLL:



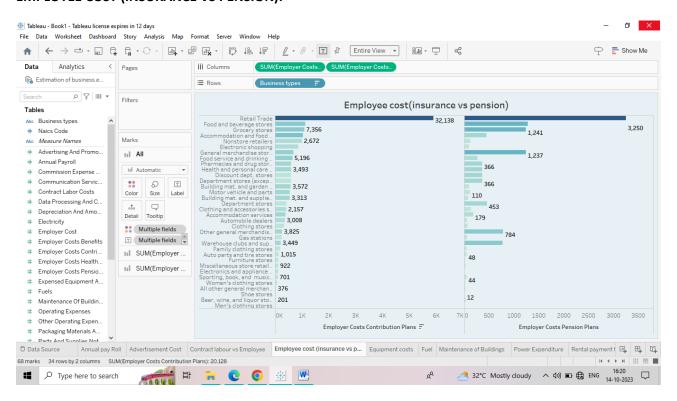
ADVERTISEMENT COST:



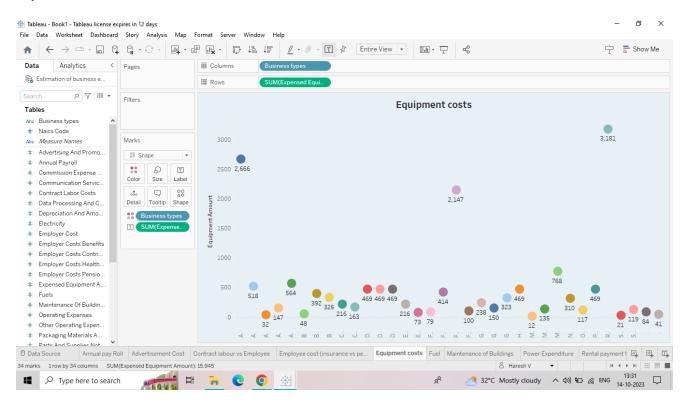
CONRTACT LABOUR VS EMPLOYEE:



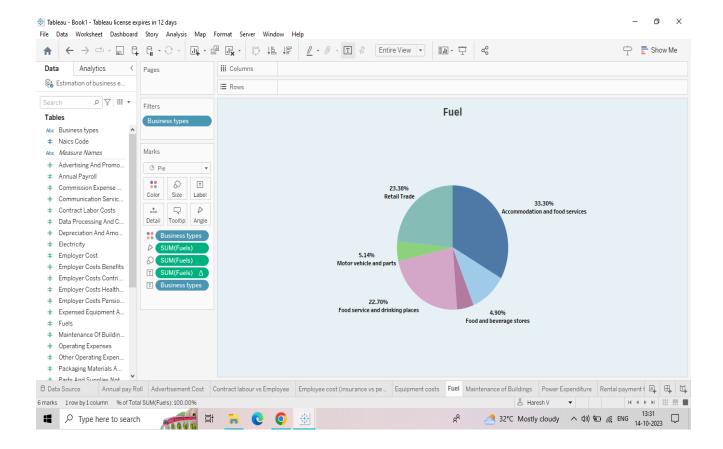
EMPLOYEE COST (INSURANCE VS PENSION):



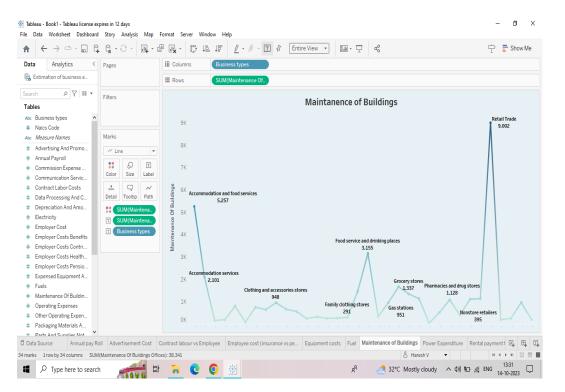
EQUIPMENT COSTS:



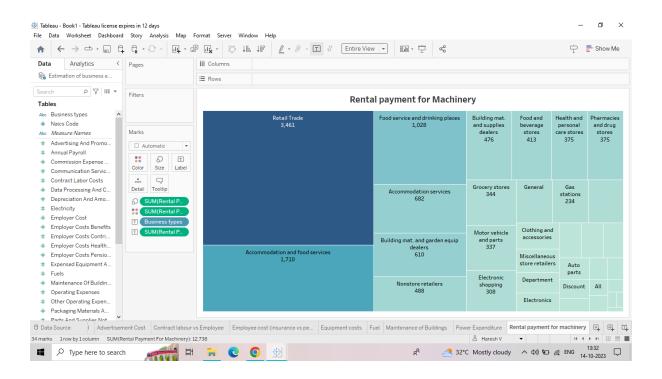
FUEL:



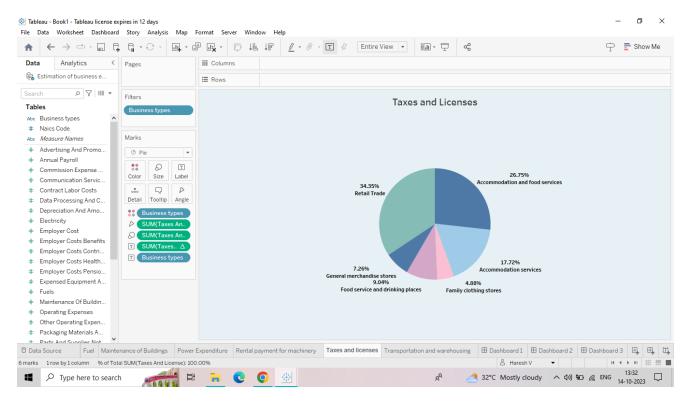
MAINTANENCE OF BUILDINGS:



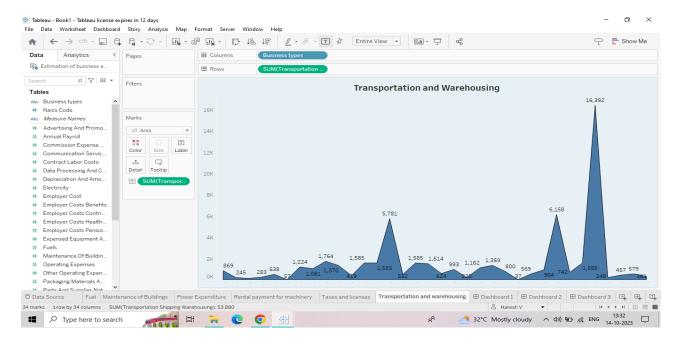
RENTAL PAYMENT FOR MACHINERY:



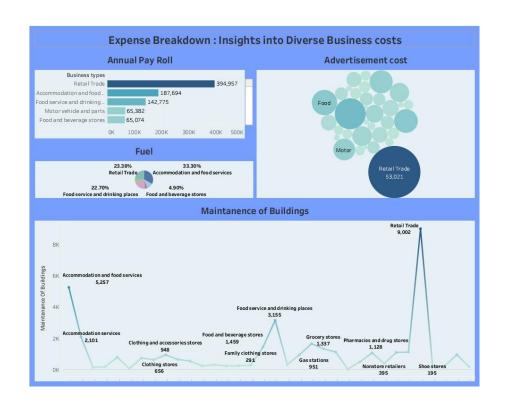
TAXES AND LICENSES:

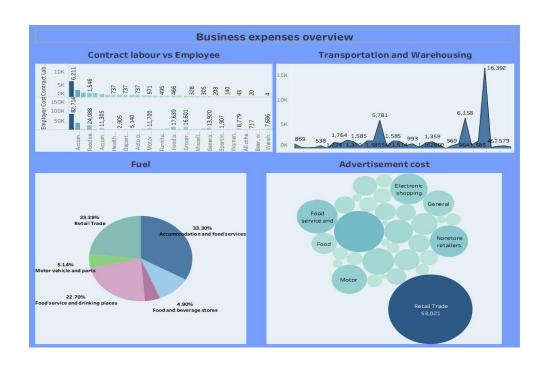


TRANSPORTATION AND WAREHOUSING:



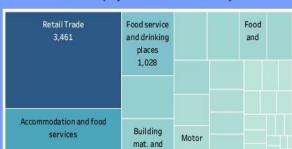
<u>DASHBOARDS:</u>





Expense insights

Rental payment for Machinery

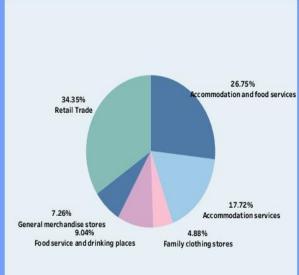


Employee cost(insurance vs pension)

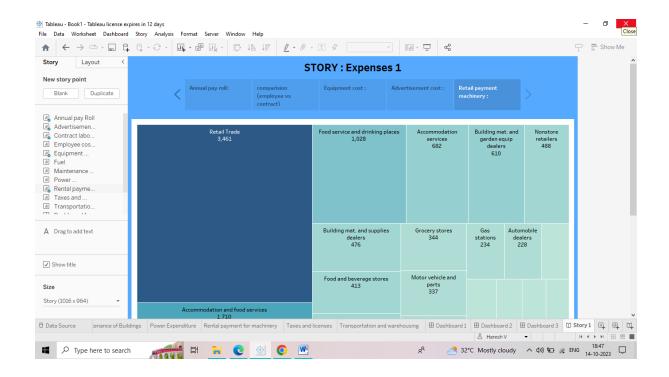


Taxes and Licenses





The delimination of the second	
Retail Trade Accommodation and food Food service and drinking Food and beverage stores Grocery stores Accommodation services General merchandise stor Health and personal care Pharmacies and drug stor Other general merchandis Gas stations Warehouse clubs and sup Motor vehicle and parts Clothing and accessories Building mat. and garden Building mat. and supplie Department stores Clothing stores Automobile dealers Miscellaneous store retail Nonstore retailers Discount dept. stores Furniture stores Family clothing stores Department stores Epartment stores Family clothing stores Department stores Fluiture	22,524 14,140 9,804 6,275 5,742 4,335 4,067 2,902 2,600 2,163 1,956 1,889 1,752 1,671 1,467 1,382 1,236 899 850 789 850 789 664 6692 678 6644 6639 629 477
Sporting, book, and musi Auto parts and tire stores	629 477



Milestone 9: Project Demonstration & Documentation

Below mentioned deliverables to be submitted along with other deliverables.

Activity 1: Record explanation Video for project end to end solution

Activity 2: Project Documentation-Step by step project development procedure Create a document as per the template provided.

THANK YOU