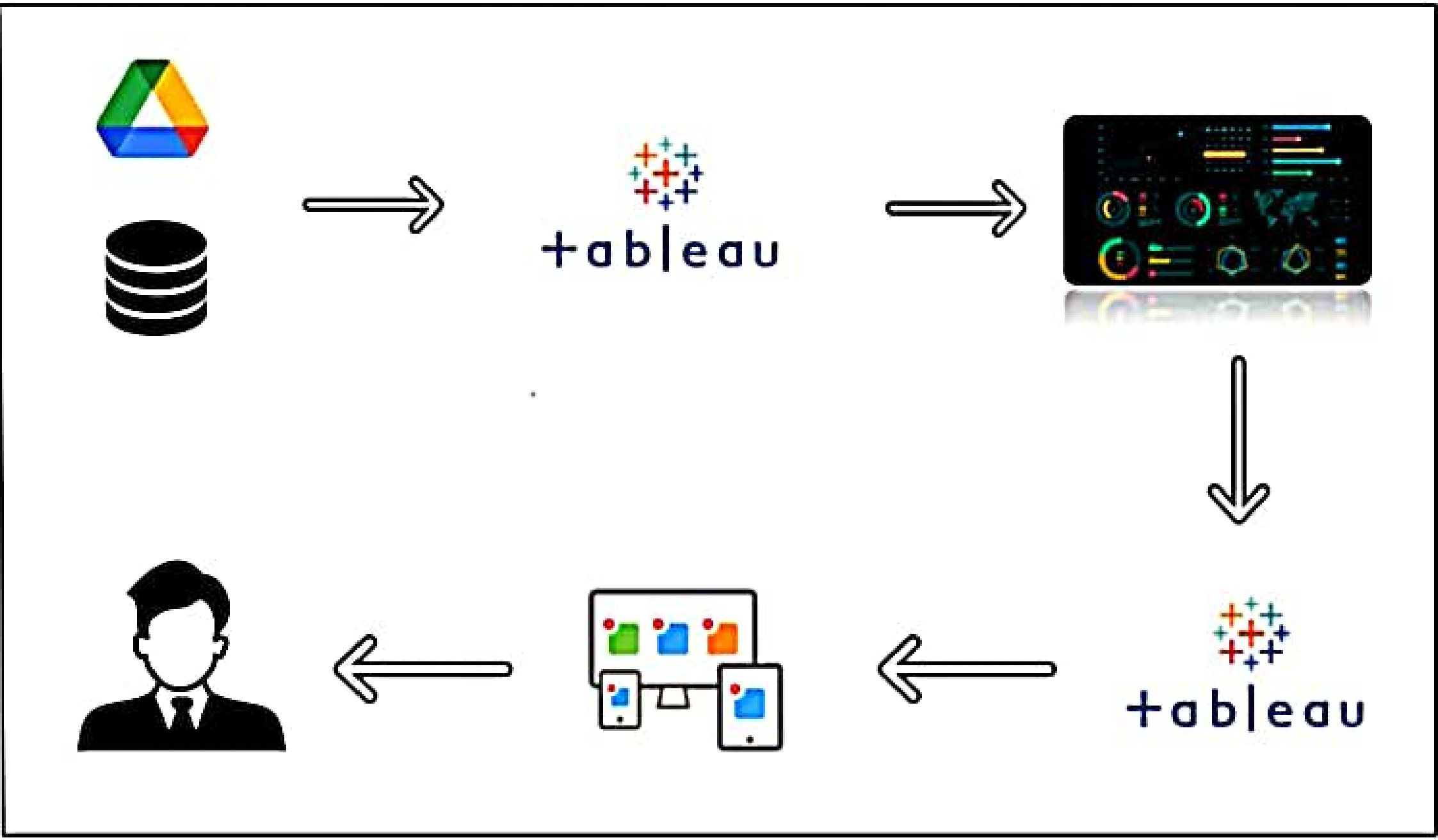
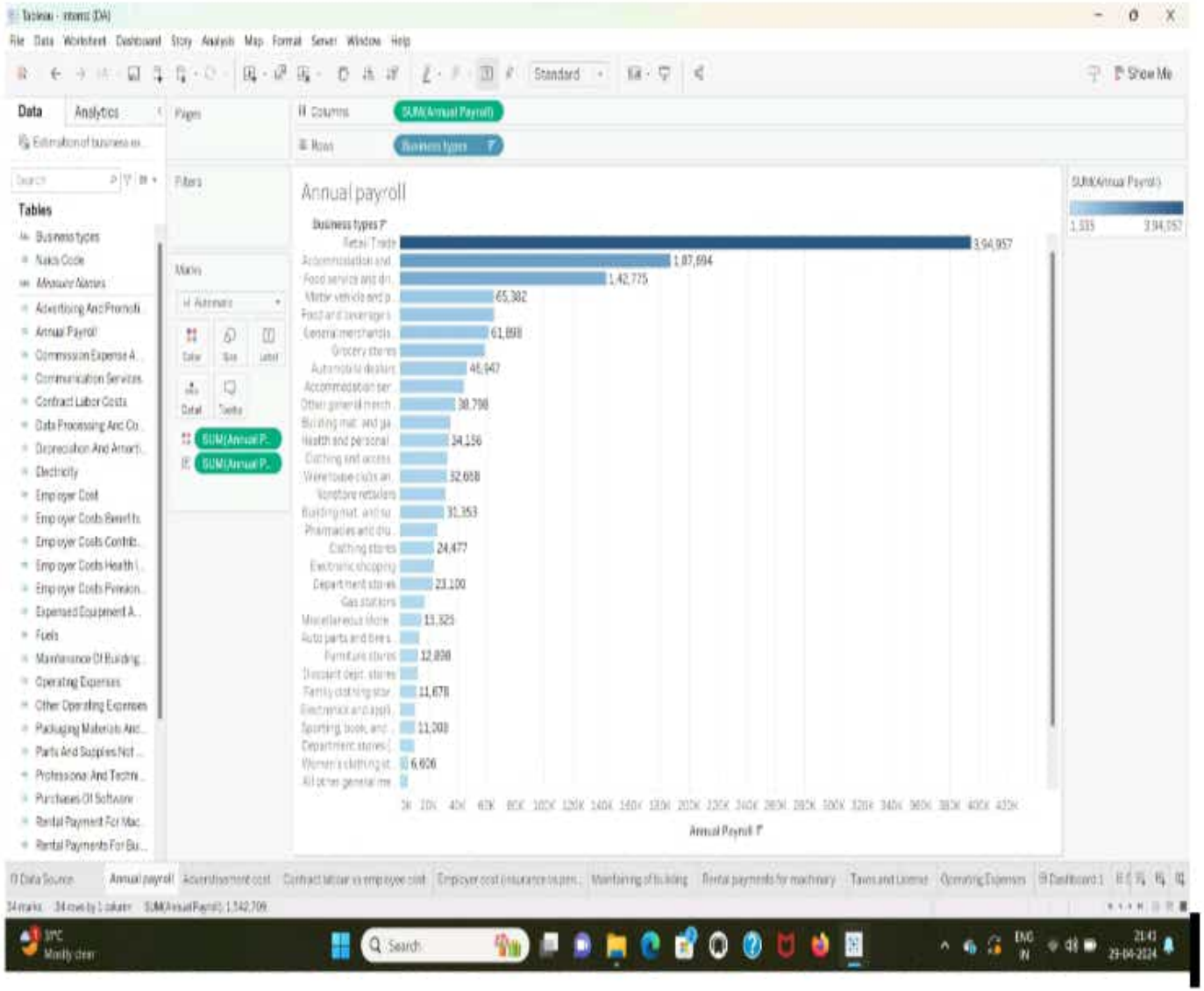
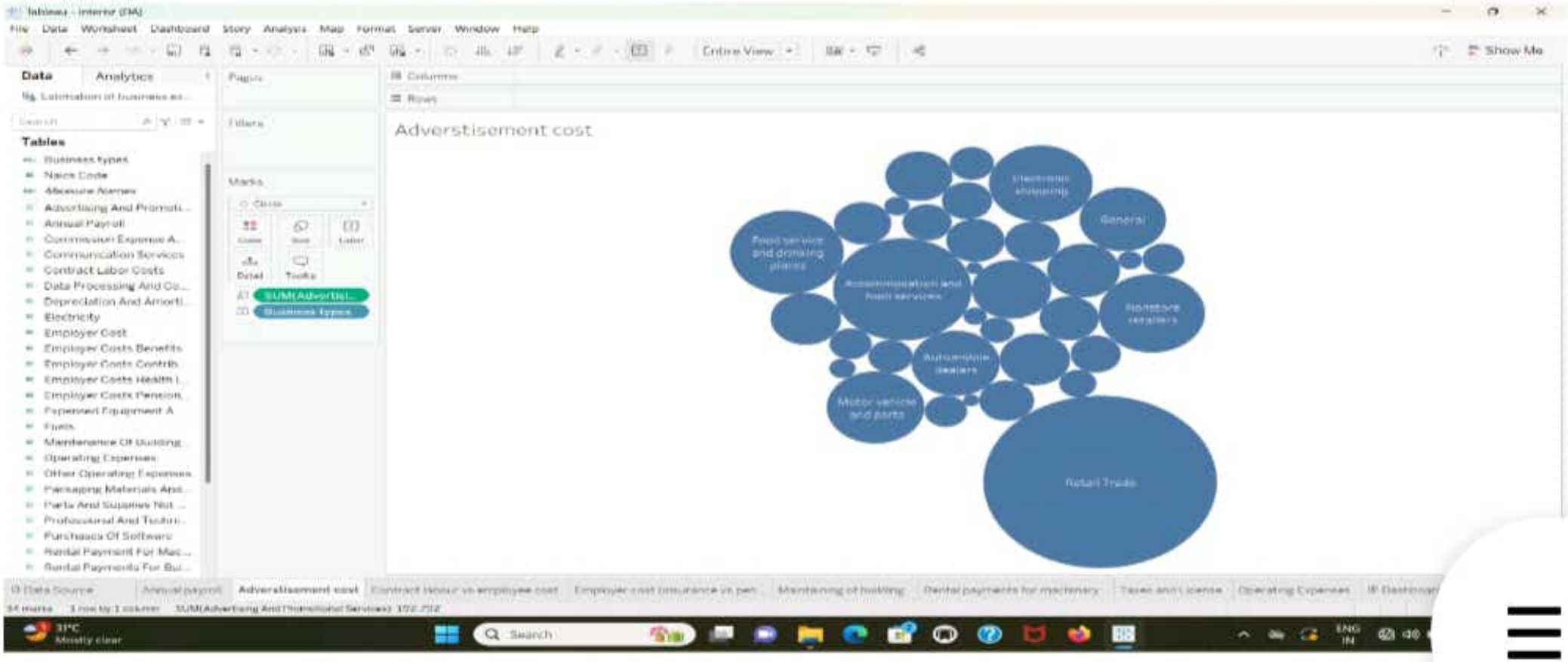


tableau
tableau

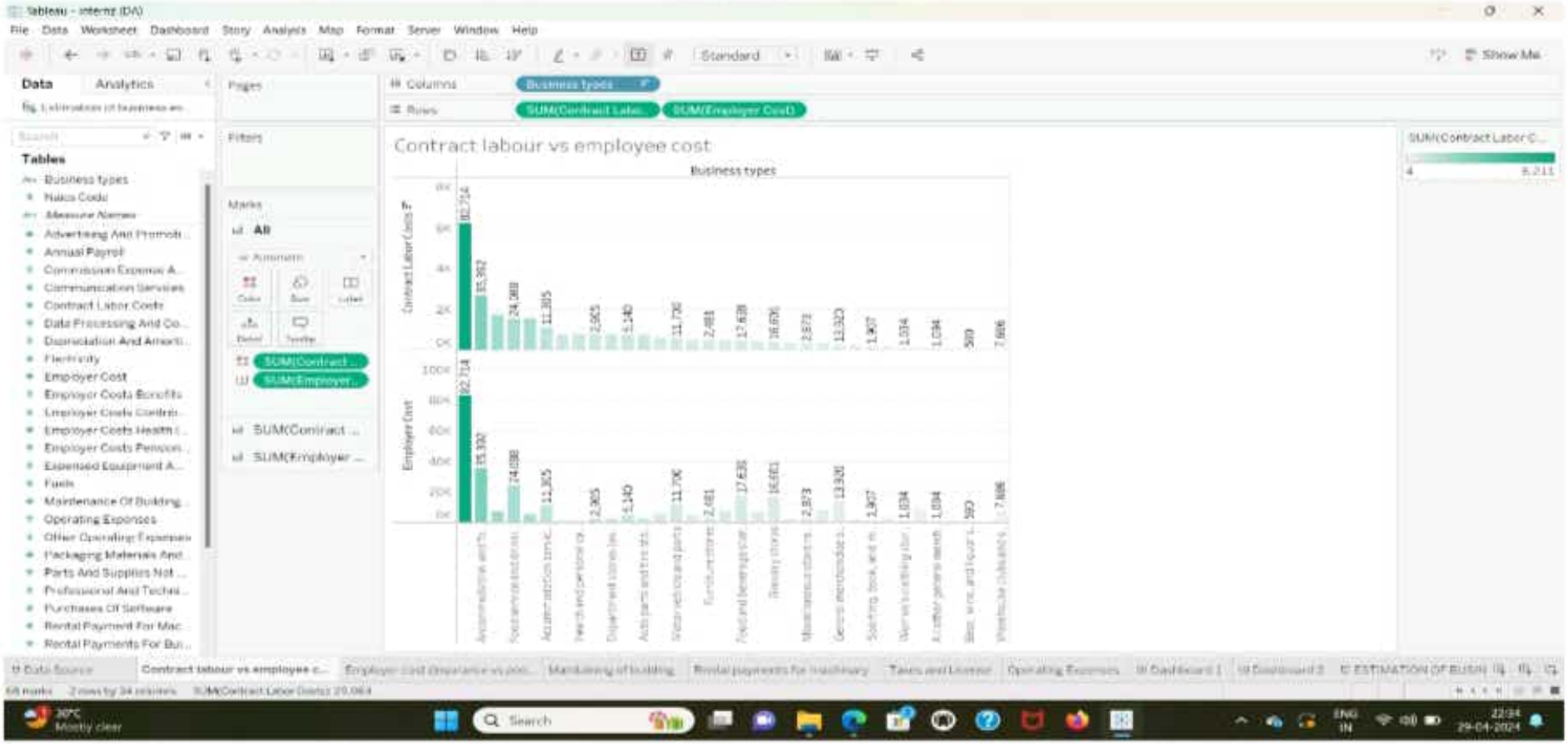
Activity 1.1 : Annual PayRoll



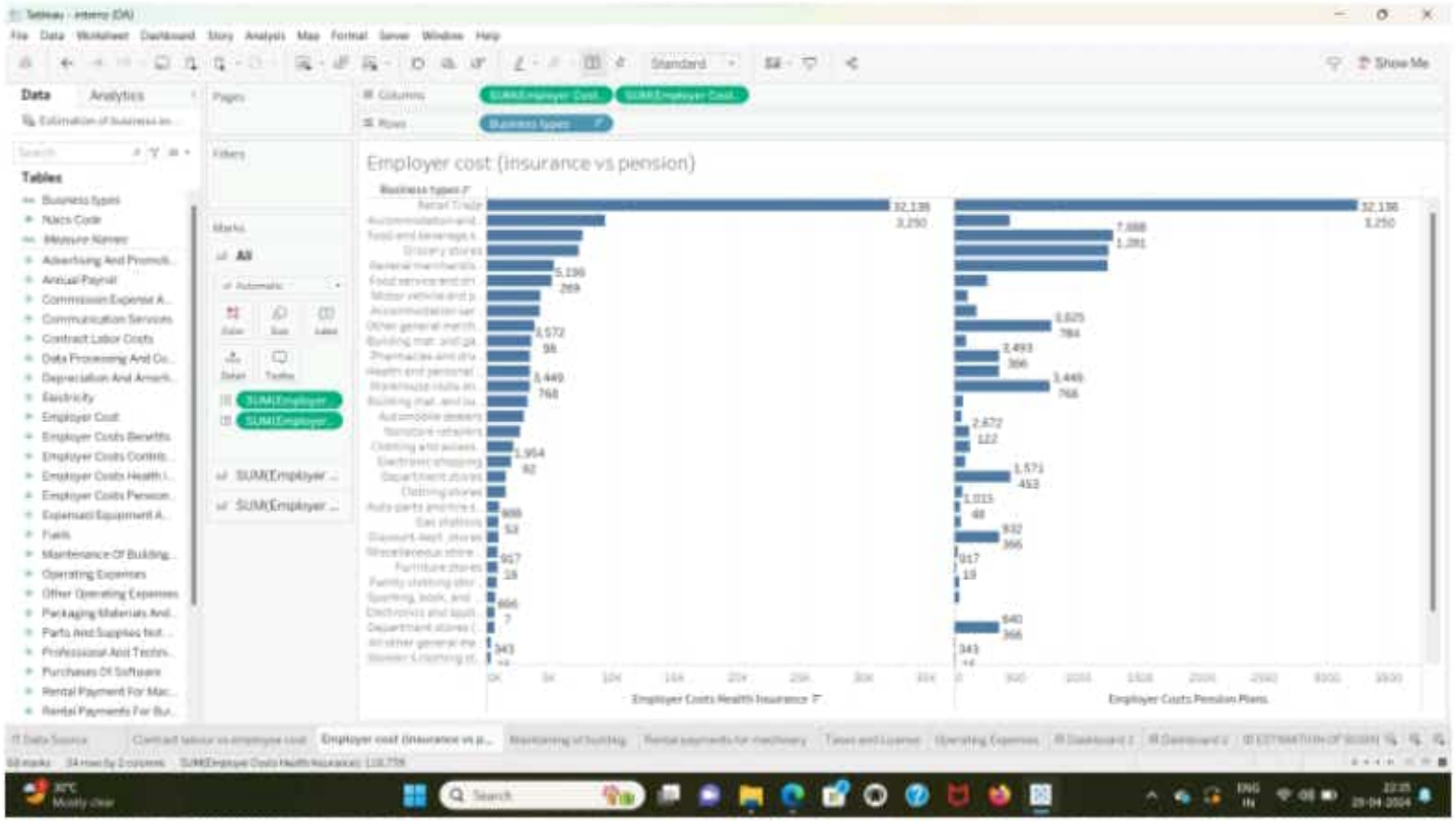
Activity 1.2 : Advertisement Cost



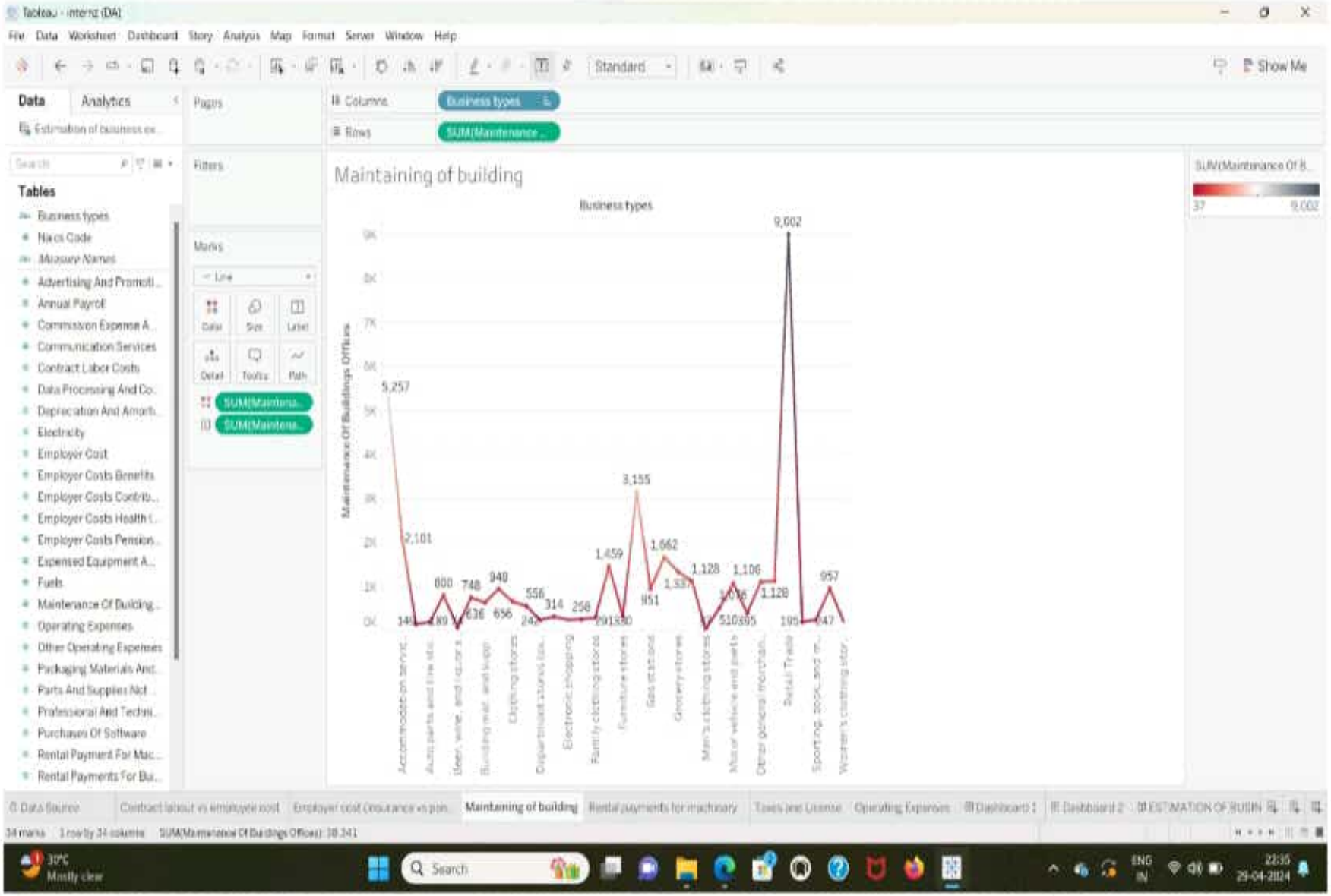
Activity 1.3: Contract labour vs employer cost



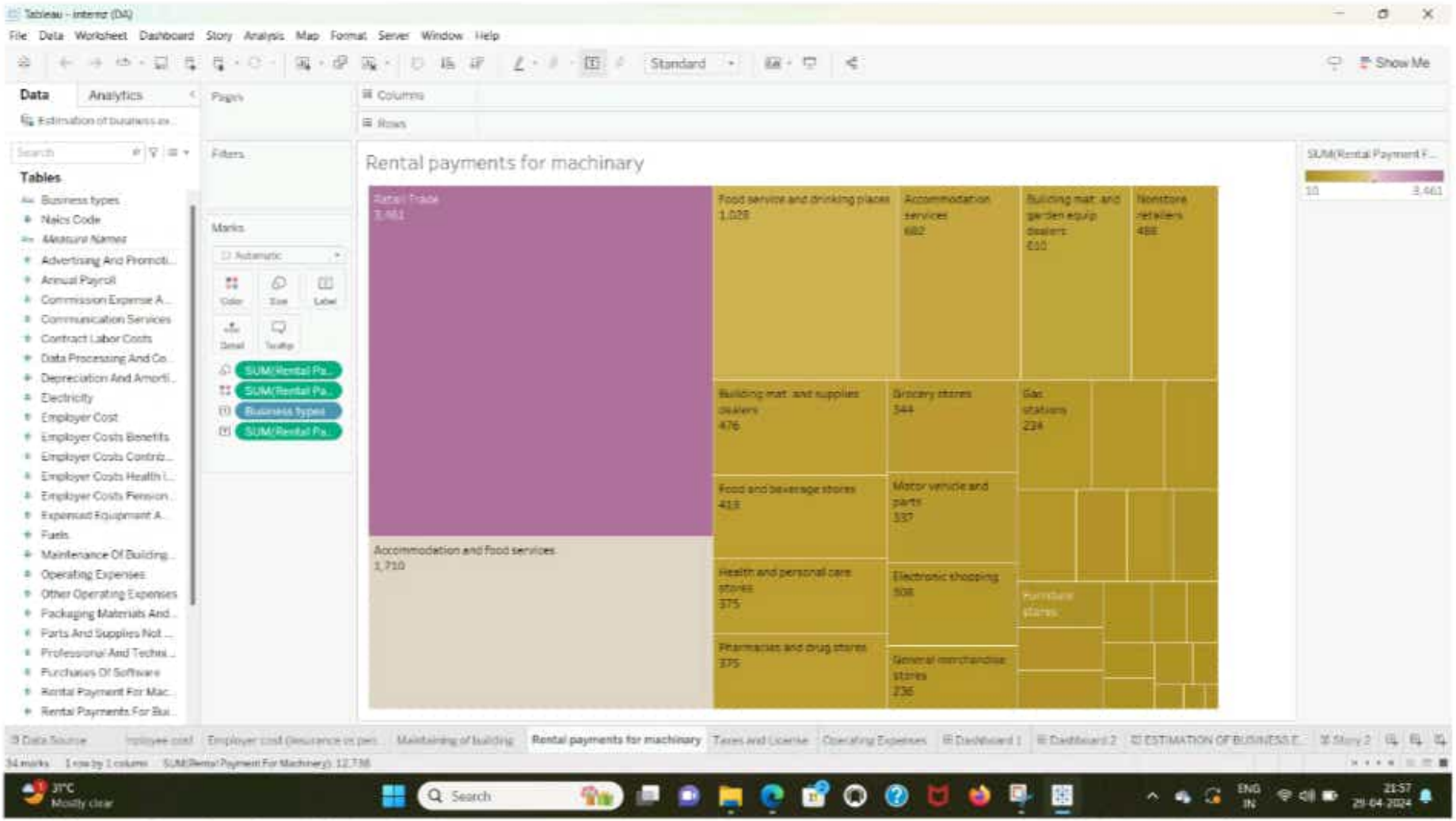
Activity 1.4 : Employee(Insurance vs pension)



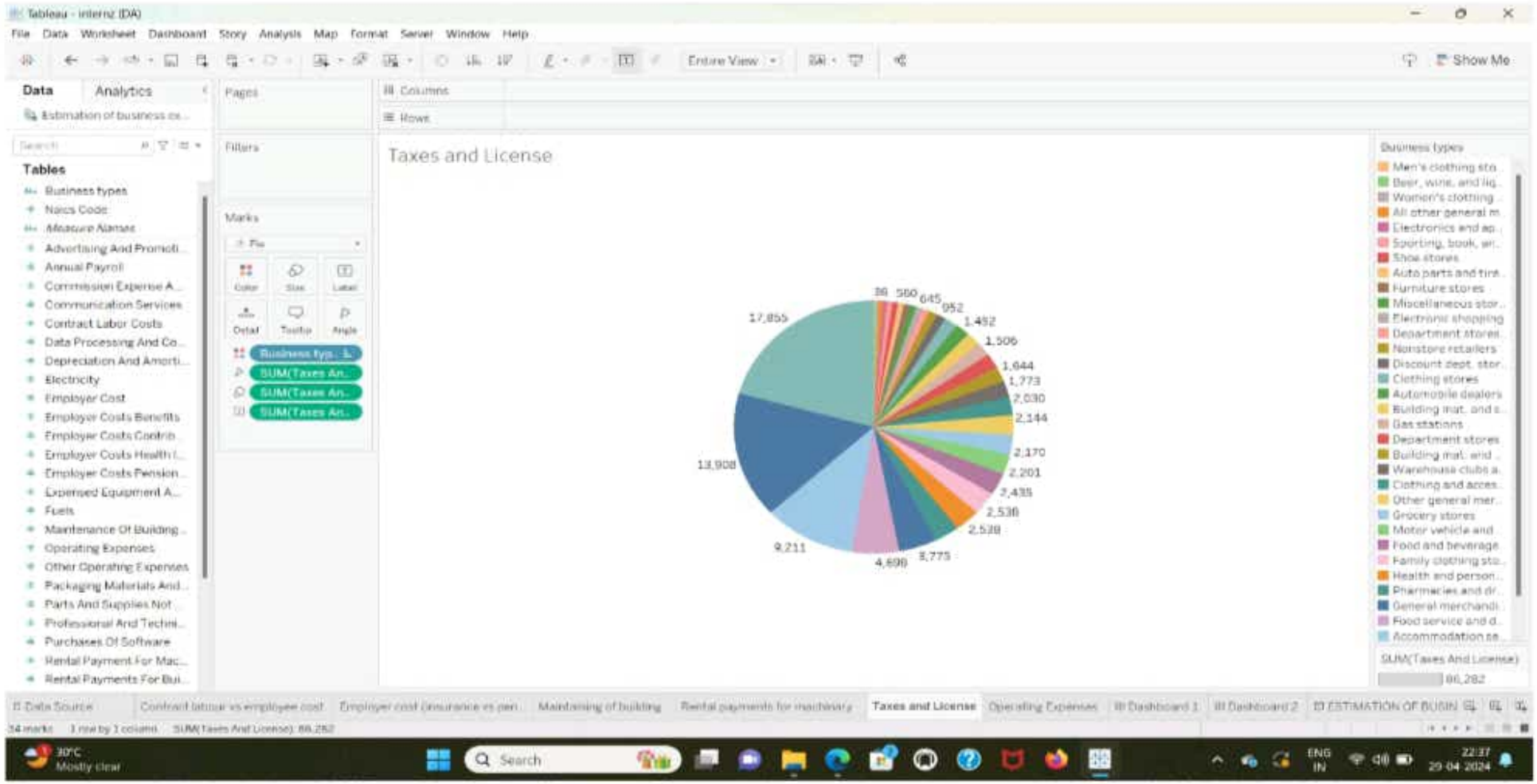
Activity 1.5 : maintaining of building



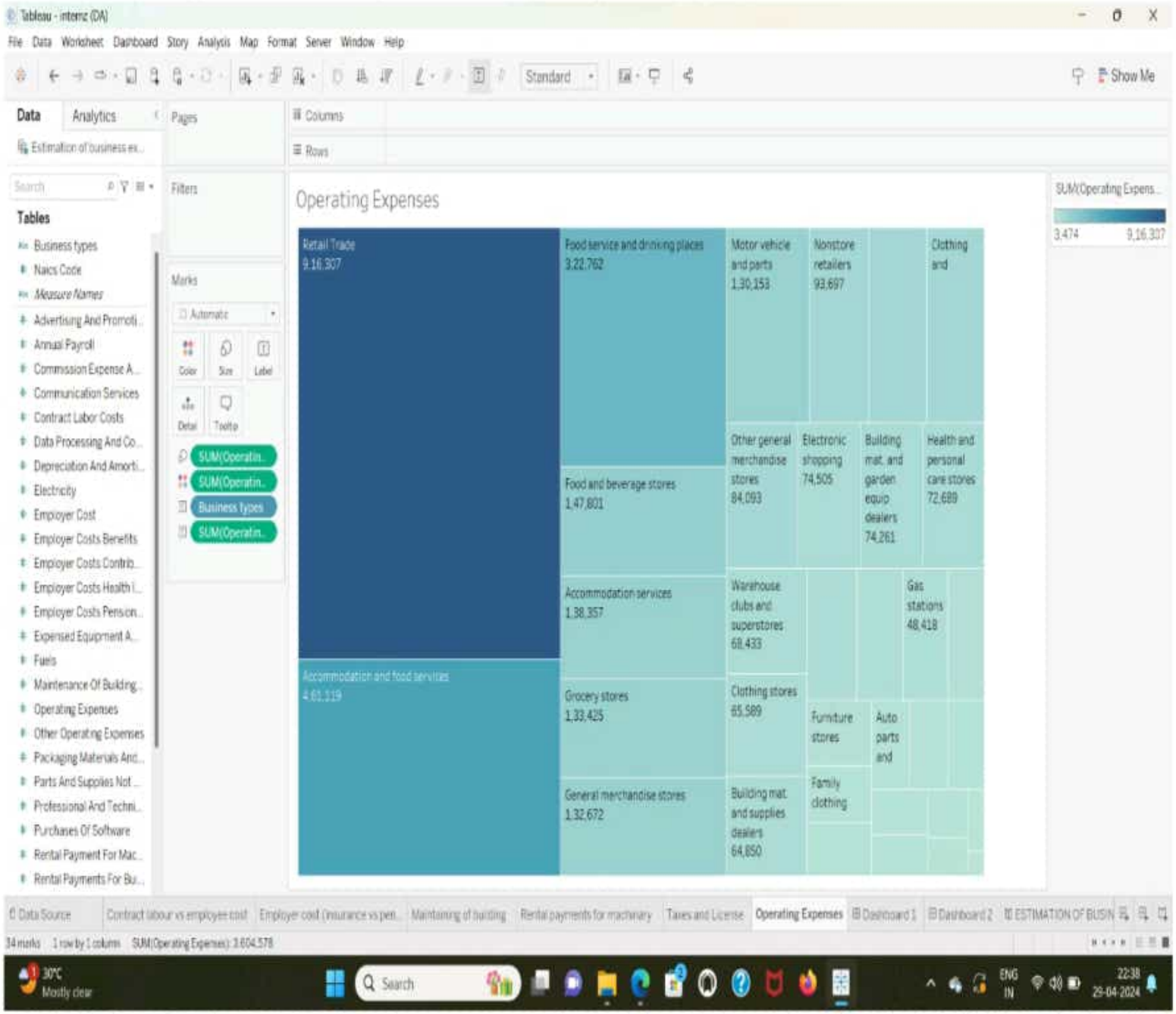
Activity 1.6 : Rental payments for machinary



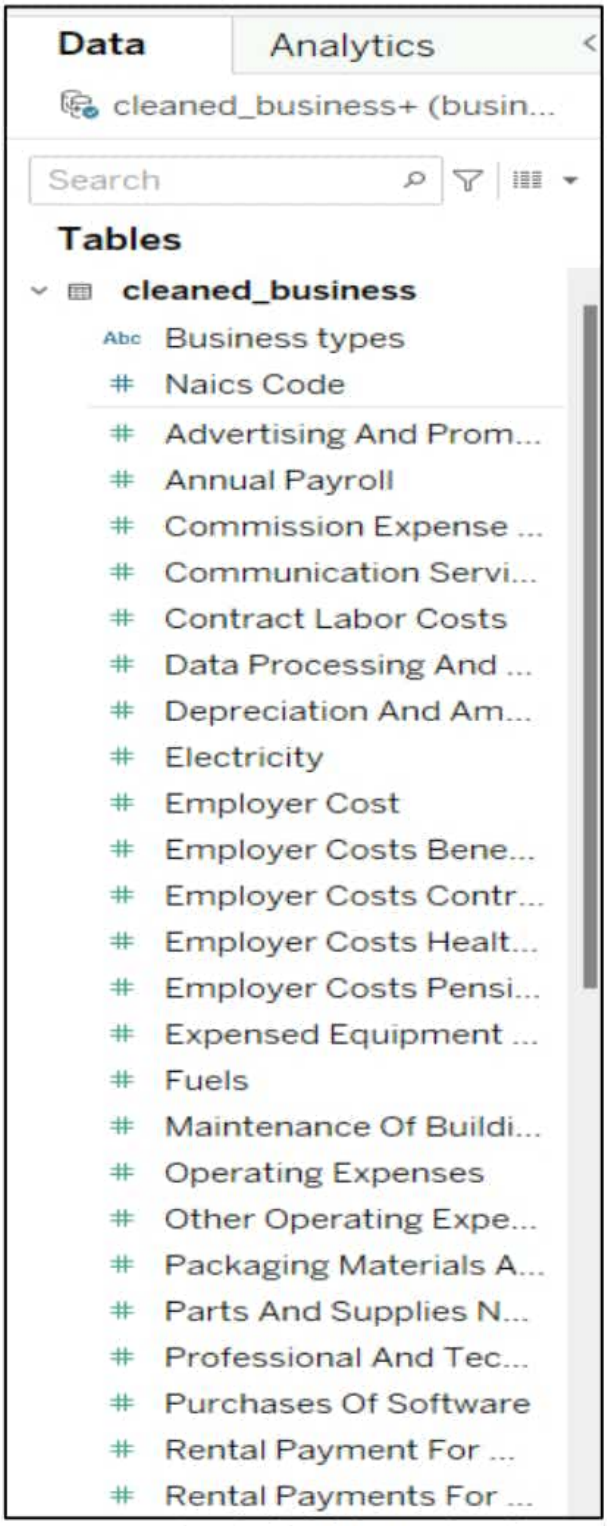
Activity 1.7 :Taxes and license

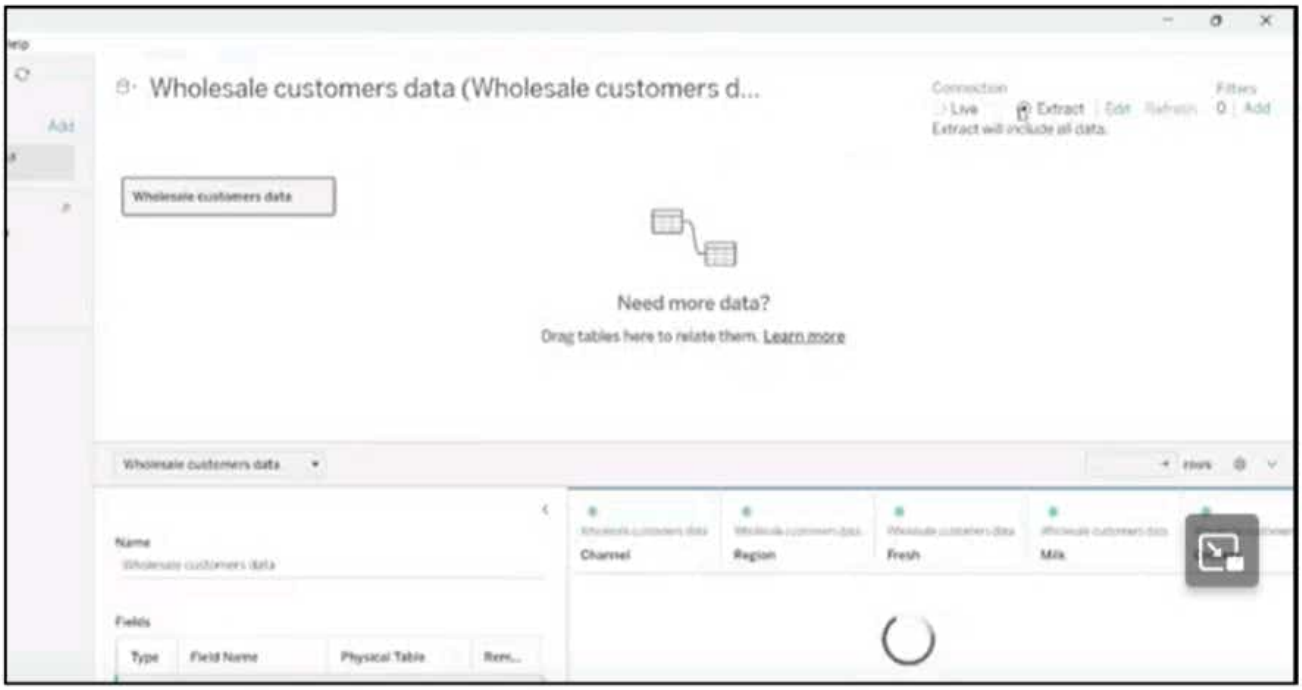


Activity 1.8 : Operating expenses



Activity 2: Number of calculation fields

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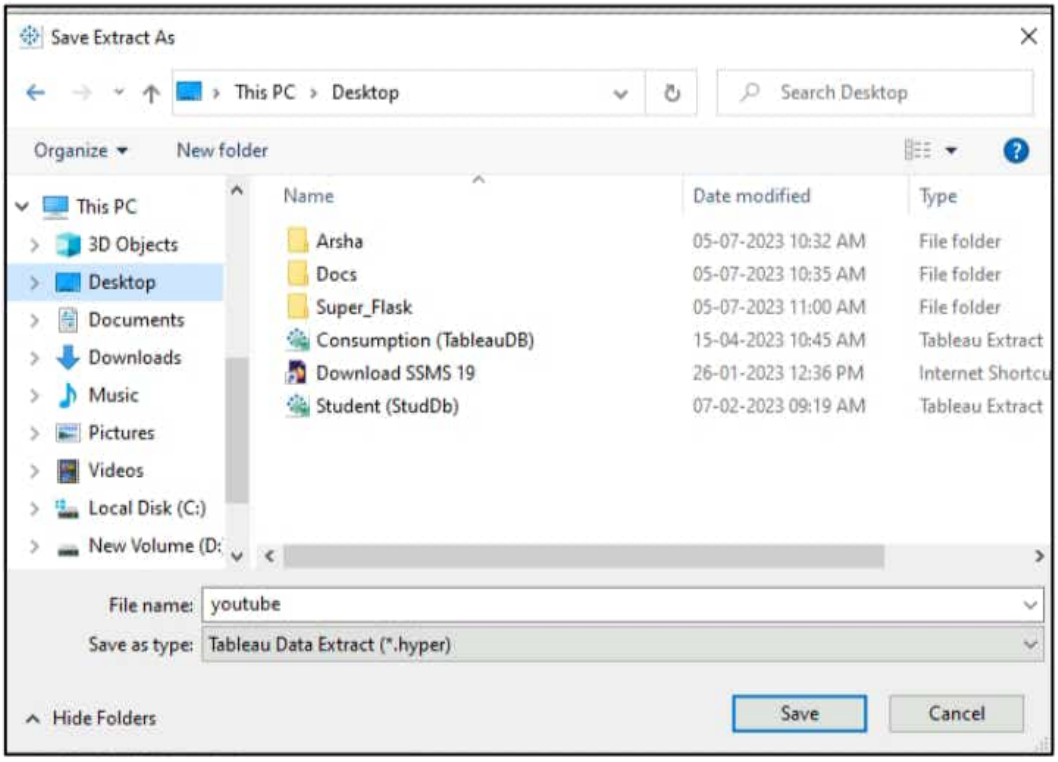
Save Extract As
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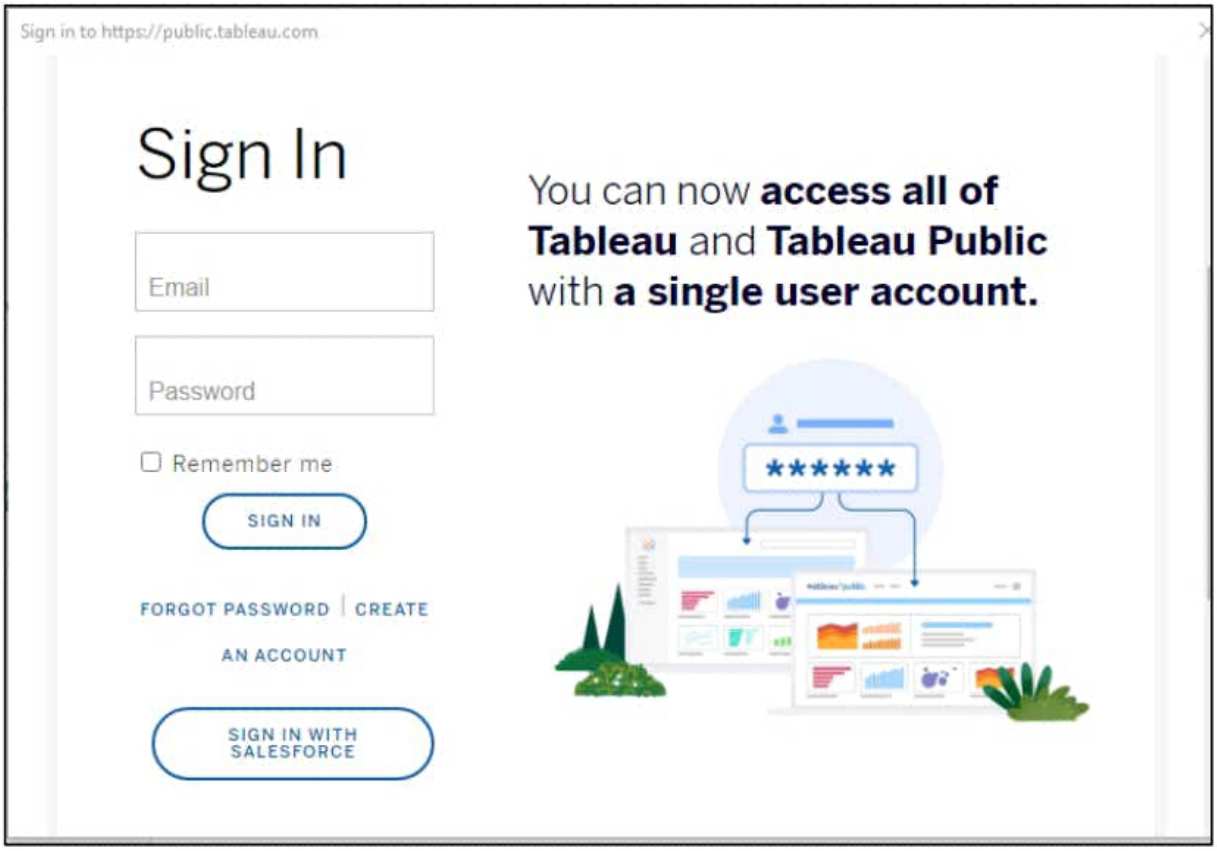

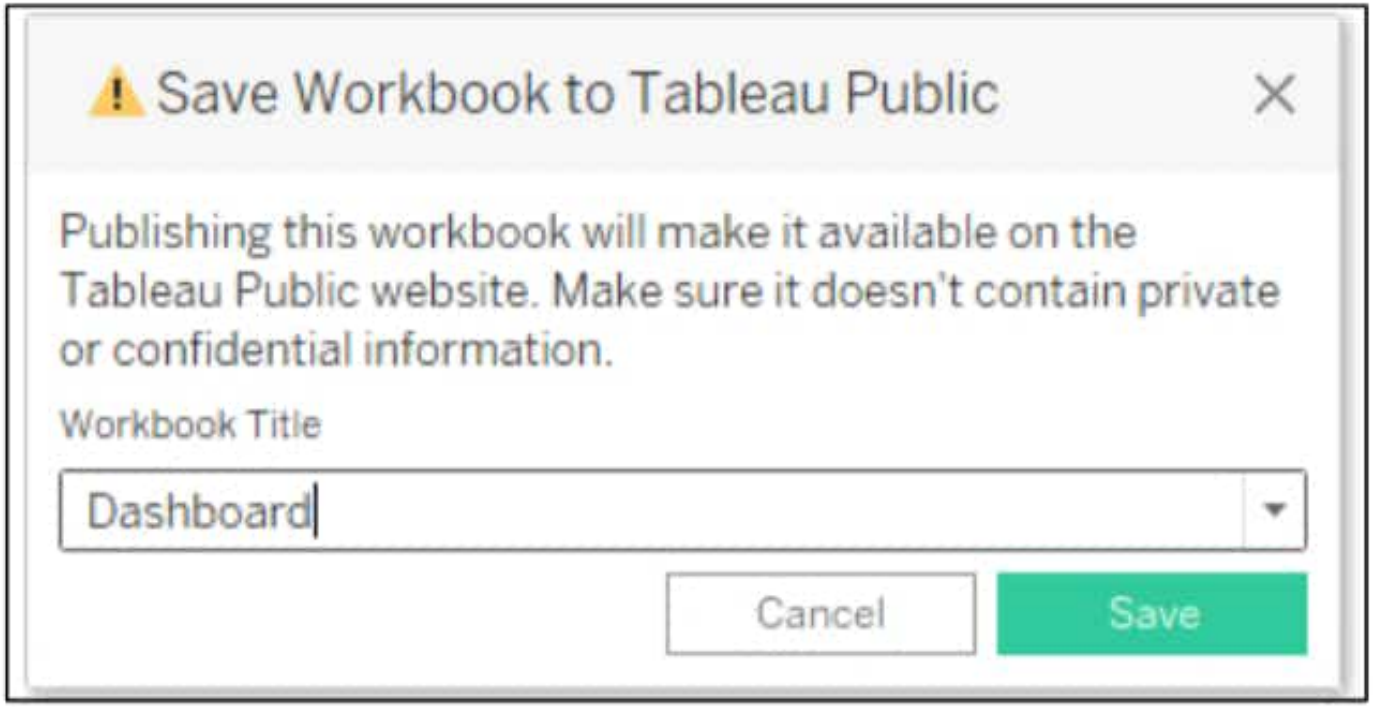
Save Workbook to Tableau Public
Publishing this workbook will make it available on the Tableau Public website. Make sure it doesn't contain private or confidential information.
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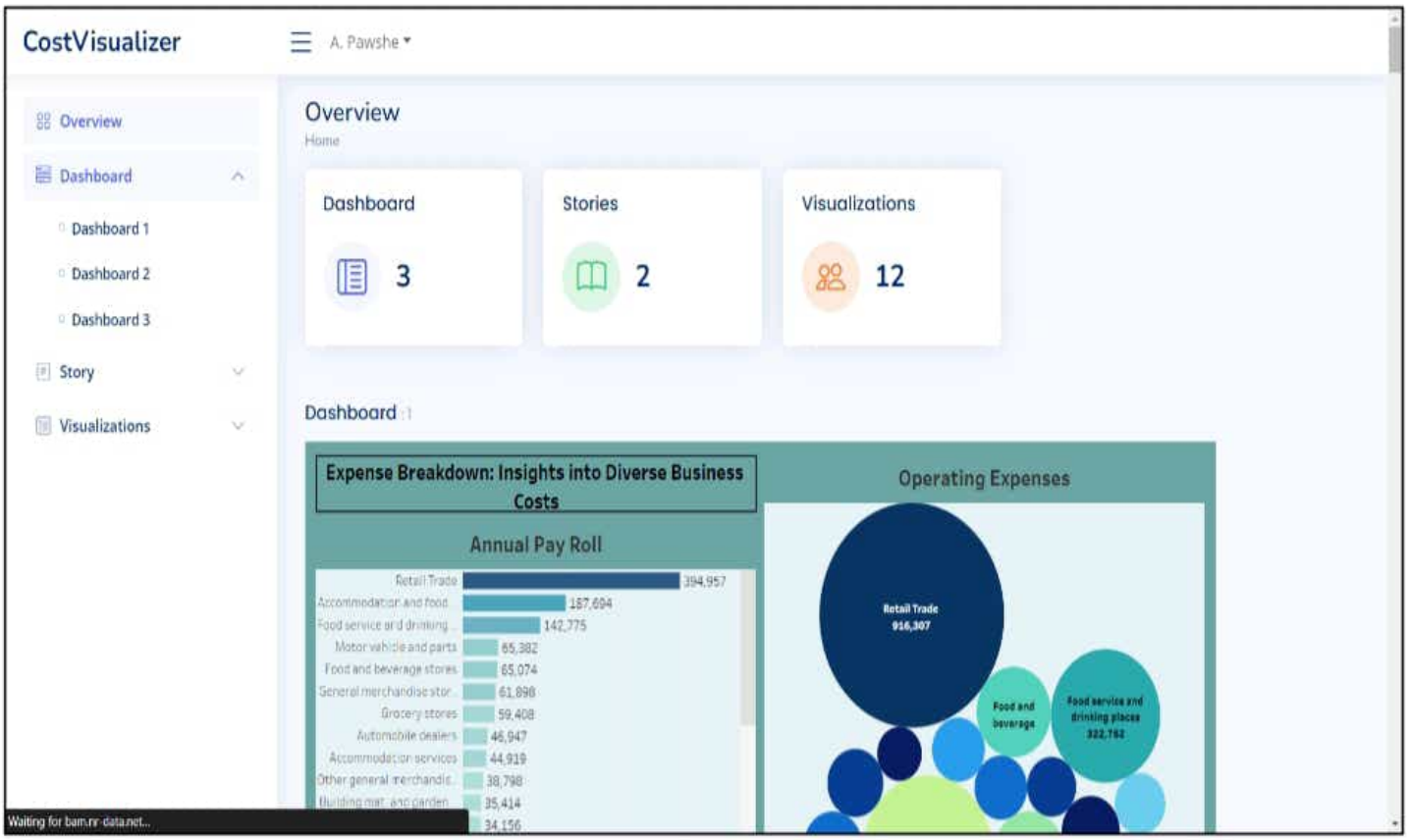
CostVisualizer
A. Pawshe
Overview
Dashboard
Dashboard 1
Dashboard 2
Dashboard 3
Story
Visualizations
Overview
Home
Dashboard
3
Stories
2
Visualizations
12
Dashboard 1
Expense Breakdown: Insights into Diverse Business Costs
Annual Pay Roll
Retail Trade 394,957
Accommodation and food 187,694
Food service and drinking 142,775
Motor vehicle and parts 65,382
Food and beverage stores 65,074
General merchandise stor 61,898
Grocery stores 59,408
Automobile dealers 46,947
Accommodation services 44,919
Other general merchandis 38,798
Building mat. and garden 35,414
34,156
Operating Expenses
Retail Trade 916,307
Food and beverage
Food service and drinking places 322,782
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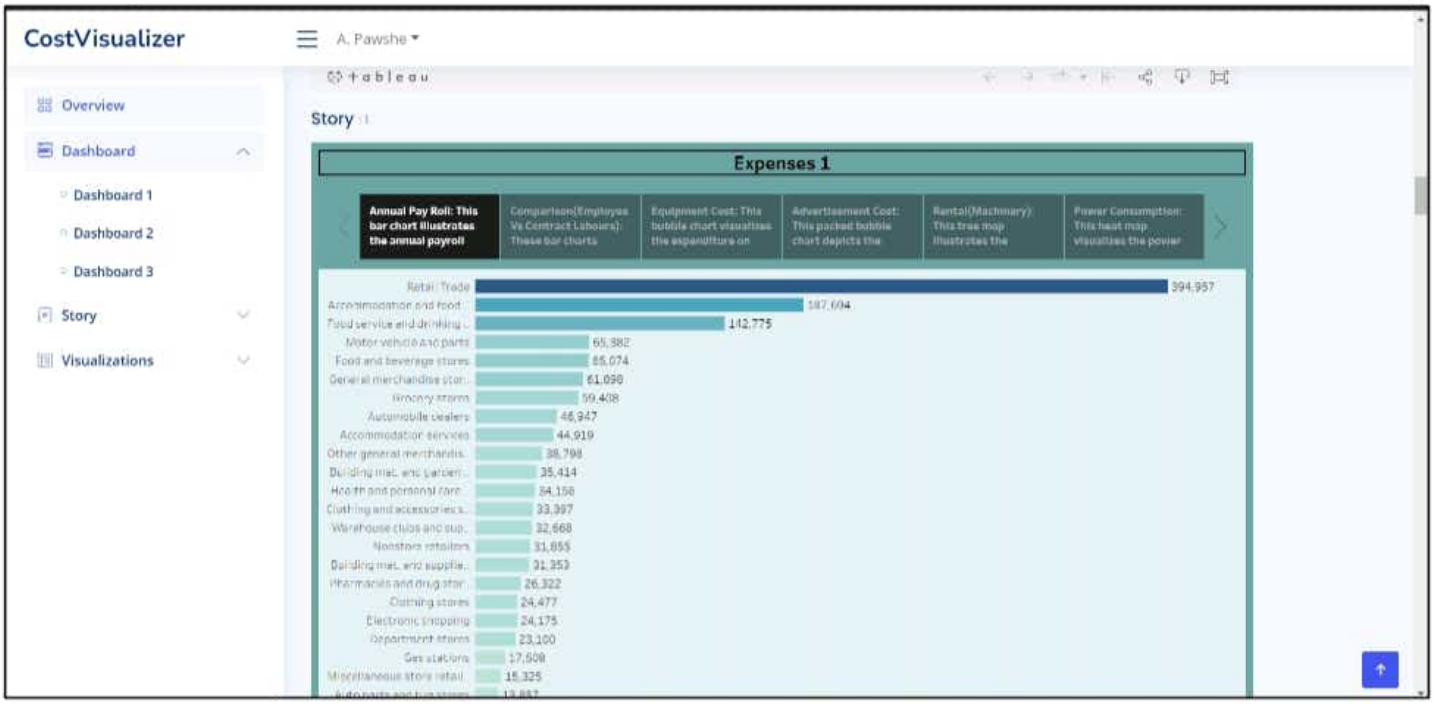
CostVisualizer
A. Pawshe
Overview
Dashboard
Dashboard 1
Dashboard 2
Dashboard 3
Story
Visualizations
tableau
Story 1
Expenses 1
Annual Pay Roll: This bar chart illustrates the annual payroll
Comparison(Employee Vs Contract Labours): These bar charts
Equipment Cost: This bubble chart visualizes the expenditure on
Advertisement Cost: This packed bubble chart depicts the
Rental(Machinery): This tree map illustrates the
Power Consumption: This heat map visualizes the power
Retail Trade 394,957
187,694
142,775
65,382
65,074
61,898
59,408
46,947
44,919
38,798
35,414
34,156
33,397
32,668
31,855
31,353
26,322
24,477
24,175
23,100
17,608
15,325

ACTIVITY LOG FOR THE FIRST WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day – 1	Introduction:- Business Intelligence Introduction to Data Analytics Types of Data Analytics	*understanding the fundamentals and significance of business Gain knowledge of data Integration	
Day - 2	Introduction to Tableau *Introduction, overview and features *Connecting Tableau to Data Sources	*Gain an overview of Tableau and its features Learn to connect Tableau to Various data sources.	
Day – 3	Data Extraction *Introduction to Database Creating Database & Table CRUD operation on DB tables.	→Gain an introduction to DB and their imp in data managment →Learn the process of creating DB tables	
Day – 4	Basic SQL operations	understand the fundamentals of SQL Learn basic SQL, Develop updating and deleting.	
Day – 5	Basic SQL operations	Understand the fundamentals, Learn basic SQL SELECT stmts, Acquire skills in filtering.	
Day –6		sorting and agregating data using SQL	

WEEKLY REPORT

WEEK – 1 (From Dt..... to Dt.....)

Objective of the Activity Done: It provide an intensive introduction to BI, Tableau, Data extraction and Basic SQL operations.

Detailed Report:

Day 1:- Introduction to Business Intelligence

* Covered various aspects of BI including data integration, processing, presentation, ETL architecture.

* Explored different types of data analytics, descriptive, diagnostic, predictive along with their applications.

Day 2:- Introduction to Tableau - Introduced participants to Tableau's features and capabilities. Demonstrated how to connect tableau to different sources and work with flat files and spreadsheets.

Day 3:- Data Extraction - Provided an overview of database and their role in data managment. Conducted sessions on creating database and performing CRUD operations on DB tables.

Day 4 and 5 - Basic SQL operations

Covered fundamental Concepts of structured query Language and its importance in database management

→ Taught basic SQL operations including querying, filtering sorting and aggregating data.

→ participants practiced data manipulation tasks such as inserting, updating and deleting records in database tables using SQL commands.

ACTIVITY LOG FOR THE SECOND WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day – 1	Architecture of Tableau Tableau field types Various file types Live vs extract connection	understand Tableau architecture and components Familarize with Tableau's interface.	
Day - 2	charts, Histograms Box plot, Motion, pie, Bar, Line, Bubble	Gain an understanding of Histograms, Box plot, Motion, pie, charts and Bubble charts	
Day – 3	Bullet, Scatter, Tree, Heat maps, Maps, Text Table, Highlighted table	The principle and applications of scatter plots, Tree maps, Heat maps, Maps, Text Table	
Day – 4	Custom charts	The Concept and importance of custom charts in data visul Acquire skills in creating	
Day – 5	working with metadata & Data Blending * Connecting database, data types cubes and PDFs, Data Preparation	Develop expertise in connecting Tableau to diverse data source such as Excel, cubes and PDFs for comprehensive analysis.	
Day –6			

WEEKLY REPORT

WEEK – 2 (From Dt..... to Dt.....)

Objective of the Activity Done: was to dewlg deeper into advanced data visualization techniques and data manipulation functionalities

Detailed Report:

Day 1 :- Architecture of Tableau.

Explored the architecture of Tableau, including its Components and interface elements. Discussed Tableau field types, saving and publishing data sources, and connection method (live vs extract)

Day 2 : charts

Explored various chart types including Histograms, Box plots, Motion charts, pie charts, Bar charts, Line and Bubble charts. particular gained an understanding of the principles and applications of each chart type in data visualization.

Day 3 :- Advanced chart Types — Delved into advanced chart types and use each chart types for visualizing different types of data and patterns.

Acquired skills in creating, customizing and interpreting advanced chart types for comprehensive data analysis. Developed proficiency in selecting the most suitable chart type for specific data.

Day 4 :- custom charts :— Explored the concept and importance of custom charts in data visualization. participants acquired skill in creating, customizing and interpreting custom charts to effectively communicate complex data insights.

Day -5 :- Working with metadata and Data Blending

Developed expertise in connecting Tableau to diverse data sources including Excel, cubes and PDFs for analysis understood Tableau data types and their implications in data visualization analysis.

ACTIVITY LOG FOR THE THIRD WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	*Join (left, Right, inner and outer) and union. Dealing with NULL Values, Cross database joining, data extraction •Cross DB joining *Data blending	Gain comprehensive understanding and skills in various types of joins including left, Right, inner and outer joins	
Day - 2	Advanced Data Manipulations preview, Mark and highlight groups, sets, Constant sets, compound sets, combined sets	Master advanced data manipulation techniques including previewing marking, and highlighting	
Day - 3	Bins, Hierarchies, Sorting and Types, using the formatting pane to work with the menu fonts, alignments, settings etc	Learn how to utilize bins for grouping continuous data into discrete levels	
Day - 4	Working with filters, organizing data, filtering continuous dates, dimensions and measures	Master the addition and removal of filters to refine and focus datasets according to specific criteria	
Day - 5	filtering in Tableau Types of filters filtering the order of operations	Master the filtering tools for precise data manipulation. Explore categorical, range &	
Day -6		top N filter for tailored data views.	

WEEKLY REPORT

WEEK – 3 (From Dt..... to Dt.....)

Objective of the Activity Done: understanding and proficiency in advanced Tableau functionalities, including data organization.

Detailed Report:

Day 1:- Joins, union and Data Blending :- Gained Comphensive understanding and practical skill in various types of joins including left, Right, Inner and outer joins.

Developed expertise in cross-database joining and data blending to integrate and analyze data from sources.

Day 2:- Advanced Data Manipulations

Mastered advanced data manipulation techniques including ~~Previewing~~ marking and highlighting to enhance data.

~~Preview~~ Developed proficiency in creating and editing groups and sets with tableau for organizing and categorized data effectively

Day 3:- Bins, Hierarchies, Sorting and formatting

participants, learned to use bins for grouping continuous data into discrete intervals and creating for data organization

Day 4:- Working with filters and data organization

Mastered the addition and removal of filters to refine and focus datasets based on specific criteria.

Day 5:- Advanced filtering in Tableau.

Explored advanced filtering tools in Tableau for precise data manipulation and analysis.

Understood the importance of Tableau's order of operations for seamless visualization workflow.

ACTIVITY LOG FOR THE FORTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day – 1	Calculated fields, Quick Table Calculations & LOD Expressions. Calculated fields in Tableau.	Learn how to create calculated fields in Tableau for custom data analysis	
Day - 2	Quick Table Calculations	Utilize Tableau's quick table Calculations for instant data analysis and visualization	
Day – 3	LOD Expressions in Tableau	Utilize Tableau'- Apply quick table calculations dynamically to compute values.	
Day – 4	Working with mapping, Calculations and Expressions Editing, plotting, working on Coordinate points	Master mapping skills including coordinate point manipulation and for Spatial data analysis	
Day – 5	Working on the background image, including add image, plotting points on image and generating	learn how to incorpate background images and add images in Tableau for enhanced visualizations.	
Day –6	Coordinates from them.		

WEEKLY REPORT

WEEK – 4 (From Dt..... to Dt.....)

Objective of the Activity Done: into advanced Tableau functionalities, focusing on mapping, calculations, expressions parameters.

Detailed Report:

Day - 1 Calculated Fields, Quick Table Calculations & LOD Expression

participants learned how to create calculated fields in Tableau for custom data analysis and visualization. Explored the versatility of quick table calculations.

Day-2 :- Quick Table Calculations - Utilized Tableau's quick table calculations for instant data analysis enhancements. Applied quick LOD expressions to perform complex calculations and acheive specific analysis goals.

Day 3 :- LOD Expression in Tableau :- participants delved deeper into the LOD expressions for advanced analytics and precise control over aggregations in Tableau.

Day 4 :- Mapping, Calculations and Expressions - participants mastered mapping skills including coordinate point and longitude/latitude plotting for spatial data analysis. Explore advanced map customization techniques.

Day 5 :- Advanced Mapping Techniques.

participants learned to incorporate background images and add images in Tableau for enhanced visualizations. Explored techniques for plotting points on images and generating coordinates for customized map visualization.

ACTIVITY LOG FOR THE FIFTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	Working with parameters creating parameters, calculations, column selection parameter, chart selection parameter, filter sesion, reference line	Master the creation of parameters in Tableau to enhance dynamic analysis and capabilities	
Day - 2	visual analytics pane. K-means cluster analysis, Trend and reference lines visual analytic in Tableau forecasting, confidence interval.	Explore the visual analytics pane in Tableau for advanced data exploration and visual techniques.	
Day - 3	Dashboards and Stories Building and formating a dashboard using size, objects, views, filters and legends.	Acquire skills in building and formatting dashboards in Tableau using various elements such as size, objects,	
Day - 4	Creating multiple dashboards	Gain proficiency in creating multiple dashboards within Tableau for data presentation & analysis	
Day - 5	Creating stories Including the intr of story points, creating as well as updating the story points.	Master the creation of stories in Tableau, incorporating engaging in troductory story points to provide context & narrative structure.	
Day -6			

WEEKLY REPORT

WEEK – 5 (From Dt..... to Dt.....)

Objective of the Activity Done: to focus on advanced tableau functionalities including parameters, visual analytics, dashboards and storytelling.

Detailed Report:

Day-1 :- Working with parameters – participants mastered the creation of parameters in Tableau to enhance dynamic analysis. Gained proficiency in integrating parameters into calculations for flexible and customizable data analysis.

Day 2 :- Visual analytics pane – Explored the VAP in Tableau for advanced data exploration. Learned K-means cluster analysis to identify patterns and groupings within datasets.

Day 3 :- Dashboards and stories – Acquired skills in building and formating dashboards in Tableau using various elements such as size, objects, views, filters and legends for effective visuals.

Day 4 :- Creating Multiple Dashboards :- Gained proficiency in creating multiple dashboards within Tableau for comprehensive data presentation and analysis. Learned to effectively organize and manage multiple dashboards to provide different perspectives.

Day 5 :- Creating stories – Mastered the creation and updating of stories in Tableau, including the introduction of story points and adding catchy visuals to enhance storytelling effectiveness. Learned to dynamically present insights and finding within the flow using story points and compelling data visualizations.

ACTIVITY LOG FOR THE SIXTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	Adding annotations with descriptions, dashboards & stories. Highlight actions, URL actions and filter actions	Master the skill of adding annotations with descriptions to provide contextual information.	
Day - 2	Build Tableau web Application Introduction to flask, Working with flask framework, introduction to Bootstrap	Acquire an introduction to flask, python, web frame work, for building web applications, including its core.	
Day - 3	Working with Bootstrap	Master the use of Bootstrap, a front-end framework, for creating responsive & visually appealing web interfaces	
Day - 4	Building applications with flask framework	Acquire the skill necessary to build web applications, using the Flask framework.	
Day - 5	Embedding Dashboard and story with web applications.	Learn how to embed Tableau dashboards and stories into web applications using Tableau's embedding functionalities.	
Day -6			

WEEKLY REPORT

WEEK – 6 (From Dt..... to Dt.....)

Objective of the Activity Done: to focus on advanced Tableau functionalities including web application development with flask, Bootstrap integration.

Detailed Report:

Day 1:- Adding Annotations and Dashboard Interactions

Participants mastered the skill of adding annotations with descriptions to provide contextual information within Tableau.

Gained proficiency in implementing highlight actions, URL actions and filter actions to enable interactive exploration with dashboards.

Day 2:- Building Tableau web Application with flask & Bootstrap

Acquired an introduction to flask, a python web framework, for building web applications including its core concepts & functionalities

Learned to work with the flask framework to develop dynamic & interactive web applications, leveraging features for routing using requests.

Day 3:- Working with Bootstrap :- participants mastered the use of Bootstrap, a front-end-framework, for creating responsive and visually appealing web interfaces. Learned to utilize the Bootstrap,

Day-4:- Building applications with flask framework

Acquired the skills necessary to build web applications using the flask framework, a lightweight and flexible python framework.

Day 5:- Embedding Dashboards and stories into web Applications

Participants learned how to embed Tableau dashboards and stories into web applications using Tableau's embedding functionalities.

Explore methods for integrating Tableau visualizations.

Activity Log for the Seventh week

Day & Date	Brief description of the daily activity	Learning outcomes	person In-charge signature
Day 1	Mentoring ~~Sections~~ sessions		
Day 2	Mentoring sessions		
Day 3	Mentoring sessions		
Day 4	Mentoring sessions		
Day 5	Mentoring sessions		

Activity Log for the Eighth Week

Day & Date	Brief description of the daily activity	Learning Outcome	person in charge signature
Day-1	Mentoring Sessions		
Day-2	Mentoring Sessions		
Day-3	Mentoring Sessions		
Day-4	Mentoring Sessions		
Day-5	Mentoring Sessions.		