

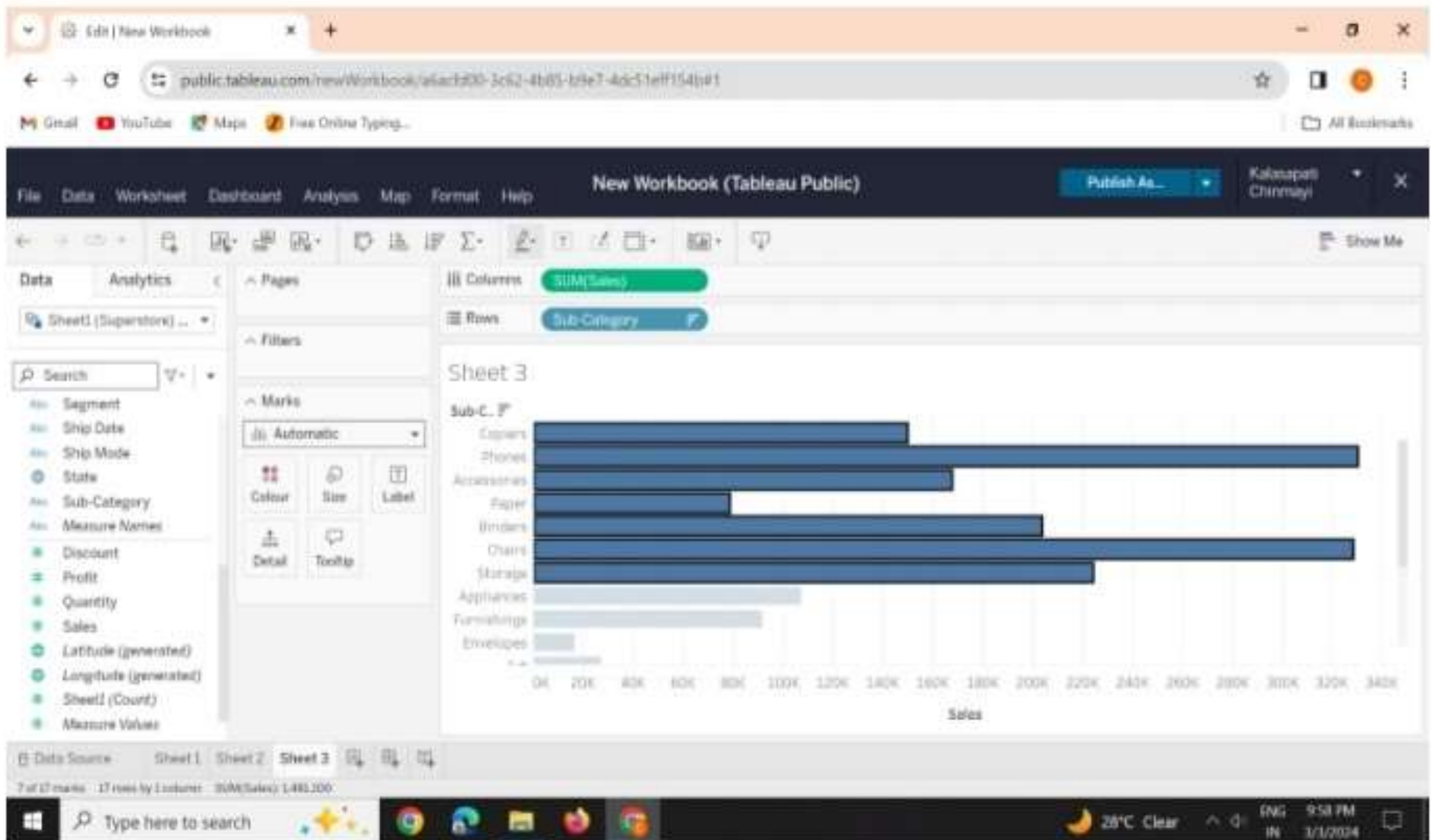
Data analytics Assignment 3

Chinthaginjala Venkata Vani

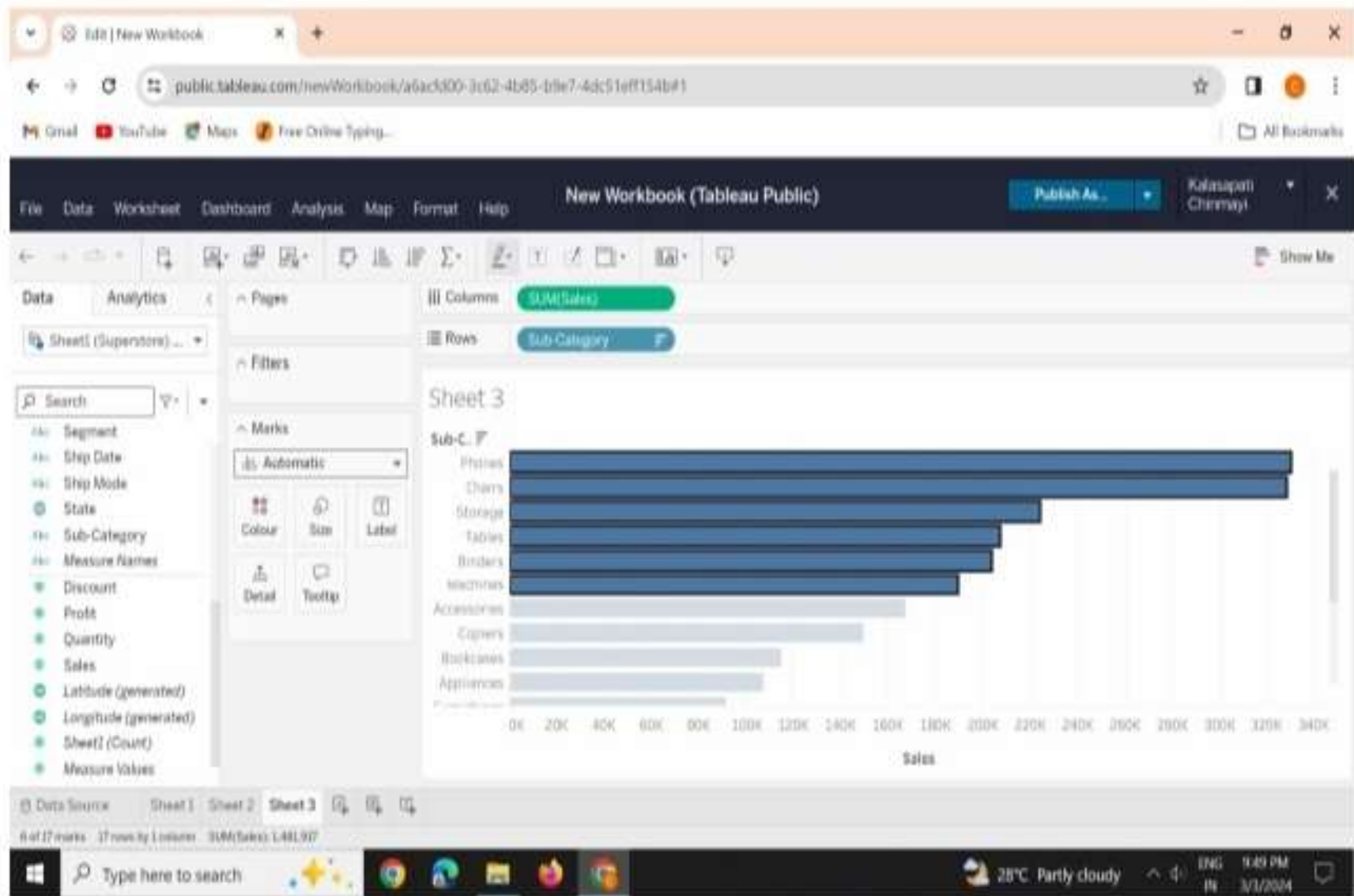
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Sri Padmavathi Mahila visvavidyalayam

Defining 2 sets based on specific criteria



Defining 2 sets based on specific criteria



UNION

The screenshot displays the MySQL Workbench interface. On the left, the 'SCHEMAS' pane shows a database named 'test' with tables 'volleyball_players' and 'football_players'. The main editor shows a SQL query using a UNION operation to combine data from both tables. The 'Result' pane shows the output of the query, which is a table with columns 'volleyball_id', 'player_name', 'age', 'football_id', 'player_name', and 'age'. The 'Output' pane shows the execution log, including messages about the number of records affected and the duration of each statement.

Query 1

```
20  (1, 'Ramesh', 19),
21  (1, 'Murali', 21),
22  (1, 'Vijay', 18),
23  (1, 'Anil', 22),
24  select * from volleyball_players;
25  select * from football_players;
26  -- 10000
27  select*
28  from volleyball_players as v
29  right join football_players as f on v.player_name=f.player_name;
```

Result

volleyball_id	player_name	age	football_id	player_name	age
1	Ramesh	19	1	Ramesh	19
2	Murali	21	2	Murali	21
3	Vijay	18	3	Vijay	18
4	Anil	22	4	Anil	22

Output

Time	Action	Message	Duration / Rows
07:38:11	insert into volleyball_players(volleyball_id,player_name,age)values (1,'Ramesh',19),(2,'Murali',21),(3,'Vijay',18),(4,'Anil',22);	Error Code: 1054. You have an error in your SQL syntax; check the manual that corresponds to your MySQL version; near '19),(2,'Murali',21),(3,'Vijay',18),(4,'Anil',22);'	0.000 sec
07:38:28	insert into volleyball_players(volleyball_id,player_name,age)values (1,'Ramesh',19),(2,'Ramesh',19),(3,'Murali',21),(3,'Murali',21),(4,'Anil',22),(4,'Anil',22);	Records affected: Records: 1 Duplicates: 0 Warnings: 0	0.016 sec
07:41:09	insert into football_players(football_id,player_name,age)values (1,'Ramesh',19),(2,'Murali',21),(3,'Murali',21),(4,'Anil',22),(4,'Anil',22);	Records affected: Records: 1 Duplicates: 0 Warnings: 0	0.000 sec
07:41:16	select * from volleyball_players LIMIT 0, 1000	Records returned	0.000 sec / 0.000 sec
07:42:18	select * from football_players LIMIT 0, 1000	Records returned	0.000 sec / 0.000 sec
07:46:09	select * from volleyball_players as v right join football_players as f on v.player_name=f.player_name LIMIT 0, 1000	Records returned	0.000 sec / 0.000 sec

INTERSECTION

The screenshot shows the Microsoft SQL Server Enterprise Manager interface. The left pane displays the server hierarchy with 'players' expanded. The center pane shows a query window with the following SQL code:

```
use players;
select * from volleyball_players;
select *
from volleyball_players
inner join football_players on volleyball_players.player_name=football_players.player_name;
```

The bottom pane displays the execution plan for the query. The plan shows a 'Nested Loops' operator with a 'Table Scan' for 'volleyball_players' and a 'Table Scan' for 'football_players'. The 'Estimated Rows' column shows 10 rows for the 'volleyball_players' scan and 10 rows for the 'football_players' scan. The 'Estimated Cost' column shows 1.000000 for the 'volleyball_players' scan and 1.000000 for the 'football_players' scan. The 'Actual Rows' column shows 10 rows for the 'volleyball_players' scan and 10 rows for the 'football_players' scan. The 'Actual Cost' column shows 1.000000 for the 'volleyball_players' scan and 1.000000 for the 'football_players' scan.

id	plan_name	age	football_id	player_name	age
1	Football	20	1	Football	20
2	Football	20	2	Football	20
3	Football	20	3	Football	20

At the bottom, the 'Messages' pane shows the following error messages:

- Msg 136, Level 15, State 1, Line 1, The text 'select * from volleyball_players inner join football_players on volleyball_players.player_name=football_players.player_name;' is not valid in this context.
- Msg 136, Level 15, State 1, Line 1, The text 'select * from volleyball_players inner join football_players on volleyball_players.player_name=football_players.player_name;' is not valid in this context.
- Msg 136, Level 15, State 1, Line 1, The text 'select * from volleyball_players inner join football_players on volleyball_players.player_name=football_players.player_name;' is not valid in this context.
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- Msg 136, Level 15, State 1, Line 1, The text 'select * from volleyball_players inner join football_players on volleyball_players.player_name=football_players.player_name;' is not valid in this context.

CREATING CALCULATION FIELD

Workbook - Sheet1 - Selected items appear in 14 days

File Data Worksheet Dashboard Story Analysis Apps Format Server Window Help

Standard

Sheet1

Tables

- Manufacturer
- Product Name
- Product Date
- Segment
- Ship Date
- Ship Mode
- Top Customers by P1
- Calculator1
- Calculator2
- Shipment
- Profit
- Quantity
- Sales
- Orders (Count)
- People
- Regional Manager
- People (Count)
- Returns
- Returned
- Returns (Count)
- Measure Name
- Calculator

Parameters

- Profit Set Size
- Top Customers

Filters

Measure Name

Make

System

Filter

Measure Values

Calculator1

Calculator2

Sheet 4

Product Name	Calculator1	Calculator2	Profit
1 FT Cable Foot Comp.	Profitable	99	579
3/4 Post Party Disp.	Profitable	34	28
3 ring staple pack	Profitable	9	17
5.6 Cable Foot	Non Profitable	489	-5,379
Counter Height (PH)	Profitable	255	507
3D Systems Cable PH	Profitable	1,899	5,719
3D Systems Cable	Non Profitable	972	-972
Printer, 2nd Gen/2nd	Profitable	109	109
3M Hangers W/M	Non Profitable	-4	-4
Coated Adhesive	Profitable	5	37
3M Office Air Cleaner	Profitable	45	91
3M Organizer Strips	Non Profitable	-5	-19
	Profitable	5	54
3M Powering Light	Non Profitable	-6	-6
Filter Screen	Profitable	22	23
3M Powering Task L	Profitable	142	579
3M Replacement	Non Profitable	-109	-109
Filter for Office Air C	Profitable	28	88
6" Cable Wall Clock	Non Profitable	-4	-4
Black	Profitable	11	32
6 3/8 Blaster Box	Profitable	13	169
12 Coated Sheet Ph	Profitable	5	2
12 1/2 Overhead	Non Profitable	-20	-137
Round Wall Clock	Profitable	29	149
14 7/8 x 14 Wire Bar	Profitable	40	179
24 Capacity Mail Box	Profitable	159	537
24 Hour Round Wall	Profitable	30	189
36x36 HAO FLOOR	Non Profitable	-10	-42
1049MMF	Profitable	9	21
50 Coated Long Pen	Profitable	2	39
2300 Heavy Duty	Non Profitable	-4	-4
Transfer File System	Profitable	10	29

Sheet1 | Sheet2 | Sheet3 | Sheet4

5179 marks - 2779 missing formulas - 5181 of Measures (Sales 336.47%)

10:17 11-03-2024

CREATING CALCULATION FIELD

The screenshot displays the Tableau Desktop interface. On the left, the 'Data' pane shows the 'supermarket_sales' data source. The 'Fields' pane on the right contains a list of fields, including 'Measure Names', 'SUM(Cogs)', 'SUM(Total)', and 'AGG(Total Cogs)'. The main workspace shows a table view titled 'Aggregate 2' with columns for 'Payment', 'Customer', 'Cogs', 'Total', and 'Total Cogs'. The table contains data for 'Cash', 'Credit', and 'Debit' payments, categorized by 'Member' and 'Nonmember' customers. The bottom status bar indicates the current view is 'Aggregate 2' and shows the number of rows and columns.

Tableau - Book1

File Data Worksheet Dashboard Story Analytics Map Format Server Window Help

Search

Data Analytics

supermarket_sales - Sheet

Tables

- Branch
- City
- Customer type
- Date
- Gender
- Invoice ID
- Payment
- Product line
- Time
- Measure Names
- Cogs
- Gross Income
- Gross Margin Percentage
- Quantity
- Rating
- Rating Quantity
- Tax 5%
- Total
- Total Cogs
- Unit price
- Latitude (generated)
- Longitude (generated)
- supermarket_sales - Sheet
- Measure Values

Columns

Measure Names

Rows

Payment Customer Cogs Total Total Cogs

Cash Member 52,058 54,661 ₺ 106,719.13

Cash Nonmember 54,805 57,546 ₺ 112,350.84

Credit Member 55,020 57,721 ₺ 112,791.90

Credit Nonmember 48,940 42,896 ₺ 89,342.70

Debit Member 49,325 51,791 ₺ 101,115.69

Debit Nonmember 55,431 59,202 ₺ 113,632.77

Aggregate 2

Measure Values

- SUM(Cogs)
- SUM(Total)
- AGG(Total Cogs)

0 Data Source Sheet 1 Aggregate Aggregate 2 75 71 12

10 marks Group by 3 columns SUM of Measure Values 1,251,138

Search

2017 11-01-2024

QUICK TABLE CALCULATION - PERCENTILE

Tableau - Book2 - Tableau license expires in 14 days

File Data Worksheet Dashboard Story Analysis Map Format Server Window Help

Standard

Data Analytics Pages Columns Rows

Measure Names

Columns

Rows

Categories

Sub-Category

Search

Tables

Orders

Customer Name

Location

Country/Region

Region

State/Province

City

Postal Code

Order Date

Order ID

Product

Category

Sub-Category

Manufacturer

Product Name

Profit (Net)

Segment

Ship Date

Ship Mode

Top Customers by Pr...

Discount

Profit

Quantity

Sales

Parameters

Profit Bin Size

Top Customers

Filters

Measure Names

Mark

Sum of Sales

Sum of Sales

percentile

Category	Sub-Category	Percentile of L	Sales
Furniture	Bookcases	50.00%	115,381
	Chairs	100.00%	335,768
	Furnishings	37.50%	95,548
	Tables	81.25%	208,020
Office Supplies	Appliances	43.75%	108,213
	Art	28.75%	27,885
	Binders	75.00%	207,385
	Electronics	12.50%	36,528
	Fasteners	0.00%	6,532
	Labels	6.25%	12,985
	Paper	33.25%	79,541
Technology	Storage	87.50%	224,849
	Supplies	25.00%	46,725
	Accessories	62.50%	167,389
	Copiers	56.25%	130,745
	Monitors	68.75%	288,825
	Phones	93.75%	331,843
	Printers	93.75%	331,843

For scatter plots try

0 or more Dimensions

2 to 4 Measures

9

Search

2021 03-05-2024

QUICK TABLE CALCULATION - MOVING AVERAGE

Tableau - QuickTable - Tableau license expires in 14 days

File Data Worksheet Dashboard Story Analysis Map Format Server Window Help

Standard

Data Analytics Pages Columns Rows

Columns: Modern Names

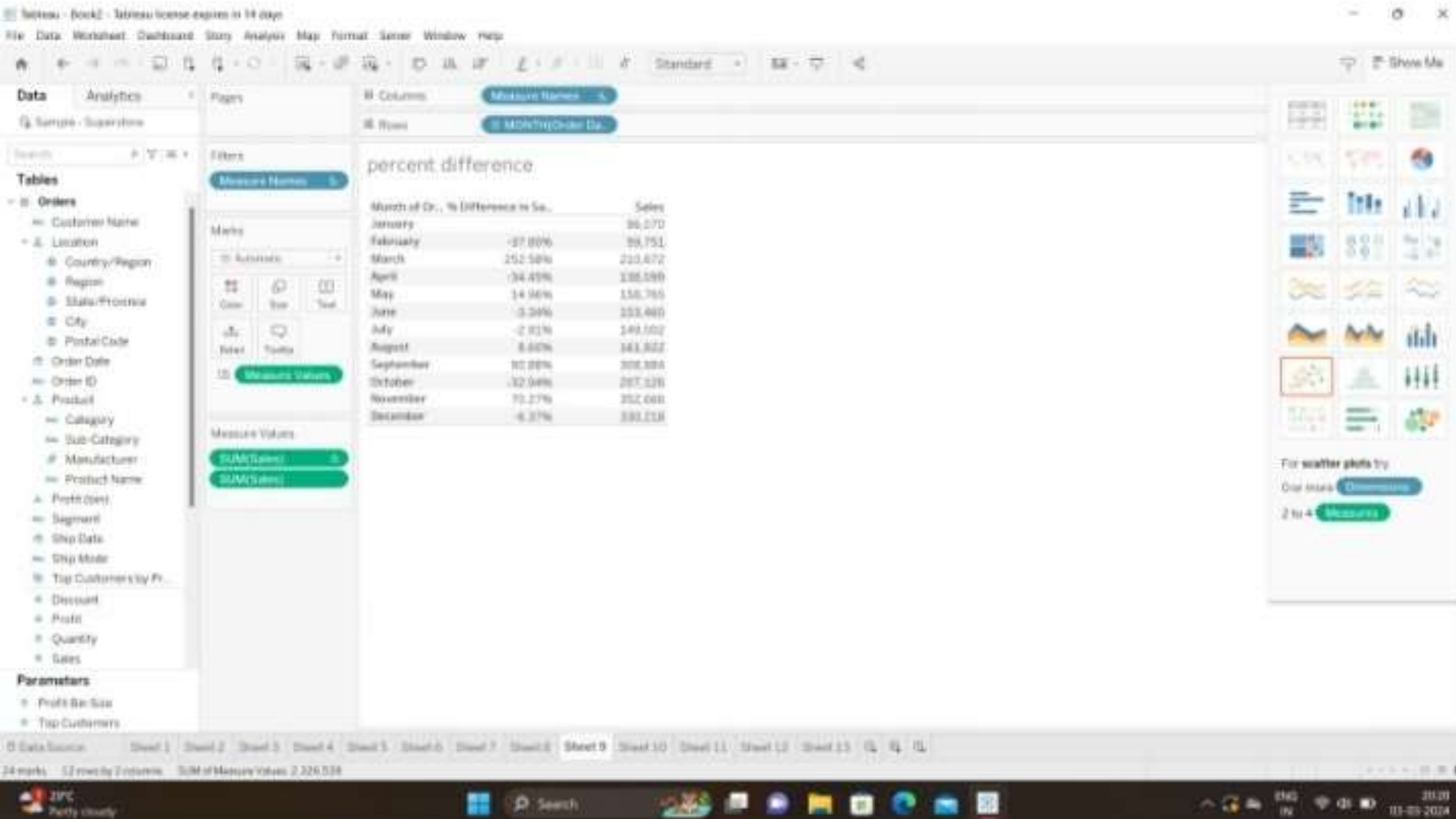
Rows: YEAR(Invoice Date) QUARTER(Invoice Date)

moving average

Year of Q	Quarter	Moving Avg.	Sales
2021	Q1	75,972	75,972
	Q2	89,285	89,285
	Q3	145,530	145,530
	Q4	182,249	182,249
2022	Q1	75,392	75,392
	Q2	89,239	89,239
	Q3	130,449	130,449
	Q4	162,952	162,952
2023	Q1	94,840	94,840
	Q2	136,809	136,809
	Q3	145,539	145,539
	Q4	236,745	236,745
2024	Q1	125,299	125,299
	Q2	134,991	134,991
	Q3	195,154	195,154
	Q4	287,104	287,104

For scatter plots try
See more [Visualizations](#)
2 to 4 [Visualizations](#)

QUICK TABLE CALCULATION -PERCENT DIFFERENCE



QUICK TABLE CALCULATION -RANK

BISS - Book2 - Tableau license expires in 14 days

Data Worksheet Dashboard Story Analysis Map Format Server Window Help

Columns: Measure Names

Rows: Category Sub-Category

rank

Category	Sub-Category	Profit	Rank of Profit
Furniture	Bookcases	1,552	3
	Chairs	27,224	1
	Bookshelves	13,850	2
	Tables	17,753	4
Office Supplies	Appliances	12,579	4
	Art	6,855	6
	Binders	31,428	2
	Envelopes	6,368	5
	Fasteners	2,429	8
	Labels	5,373	7
	Paper	94,312	1
	Stamps	21,280	3
	Supplies	1,173	9
Technology	Accessories	41,937	2
	Copiers	56,594	1
	Desktops	2,862	4
	Phones	43,051	2

Measures: SUM(Profit)

Parameters: Profit by Size, Top Customers

For scatter plots try: [Discover](#)

2 to 4: [Measures](#)