

DATA ANALYTIC WITH TABLEAU ASSIGNMENT-3

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Defining 2 sets based on specific criteria

Screenshot of a Tableau Public workbook titled "New Workbook (Tableau Public)". The dashboard displays a horizontal bar chart showing sales for different Sub-Categories. The Y-axis lists Sub-Categories: Phones, Chairs, Storage, Tables, Binders, Machines, Accessories, Copiers, Bookcases, and Appliances. The X-axis represents Sales, ranging from 0K to 340K. The chart shows that Phones and Chairs have the highest sales, followed by Storage, Tables, Binders, and Machines.

The dashboard includes the following components:

- Pages:** Columns (SUM(Sales))
- Rows:** Sub-Category
- Marks:** Automatic (Color, Size, Label, Detail, Tooltip)
- Data:** Sheet1 (Superstore) ...
- Analytics:** Segment, Ship Date, Ship Mode, State, Sub-Category, Measure Names, Discount, Profit, Quantity, Sales, Latitude (generated), Longitude (generated), Sheet1 (Count), Measure Values
- Help:** Show Me
- File:** Data, Worksheet, Dashboard, Analysis, Map, Format, Help
- Help:** Publish As..., Kalasapati Chinmayi
- Bottom Navigation:** Data Source, Sheet1, Sheet2, Sheet3, +, #, 6 of 17 marks, 17 rows by 1 column, SUM(Sales): 1,481,917
- Bottom Bar:** Type here to search, Windows icon, Chrome, Edge, File Explorer, Firefox, Google Sheets, 28°C Partly cloudy, ENG IN, 9:49 PM, 3/3/2024

Defining 2 sets based on specific criteria

Screenshot of a Tableau Public workbook titled "New Workbook (Tableau Public)".

The dashboard displays a horizontal bar chart titled "Sheet 3" showing sales by Sub-Category. The Y-axis lists Sub-Categories: Copiers, Phones, Accessories, Paper, Binders, Chairs, Storage, Appliances, Furnishings, and Envelopes. The X-axis represents Sales in thousands, ranging from 0K to 340K. The chart shows that Phones and Chairs have the highest sales, both exceeding 300K.

The Data pane on the left shows the following fields:

- Segment
- Ship Date
- Ship Mode
- State
- Sub-Category
- Measure Names
- Discount
- Profit
- Quantity
- Sales
- Latitude (generated)
- Longitude (generated)
- Sheet1 (Count)
- Measure Values

The Analytics pane shows the following configurations:

- Columns: SUM(Sales)
- Rows: Sub-Category
- Marks: Automatic
- Color: Colour
- Size: Size
- Label: Label
- Detail: Detail
- Tooltip: Tooltip

The status bar at the bottom indicates 17 marks, 17 rows by 1 column, and a total sum of 1,481,100.

Union

MySQL Workbench

Local instance MySQL80 X

File Edit View Query Database Server Tools Scripting Help

Navigator

Schemas

Filter objects

college

players

Tables

football_players

volleyball_players

Views

Stored Procedures

Functions

sys

Query 1 X

1 • use players;

2 • select * from volleyball_players;

3 • select*

4 from volleyball_players

5 inner join football_players on volleyball_players.player_name=football_players.player_name;

SQLAdditions

Automatic context help is disabled.
Use the toolbar to manually get help for the current caret position
or to toggle automatic help.

Result Grid | Filter Rows: Export: Wrap Cell Content:

volleyball_id	player_name	age	football_id	player_name	age
2	Ramesh	19	2	Ramesh	19
4	Venkat	18	4	Venkat	18
5	Anil	21	5	Anil	21

Result Grid

Form Editor

Administration Schemas

Information

No object selected

Action Output

#	Time	Action	Message	Duration / Fetch
5	12:54:39	select* from volleyball_players inner join football_players on volleyball_players.player_name=football_players.player_name;	Error Code: 1054. Unknown column 'Football_players.playename' in 'on clause'	0.000 sec
6	12:55:07	select * from volleyball_players LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
7	12:56:12	select* from volleyball_players inner join football_players on volleyball_players.player_name=football_players.player_name;	Error Code: 1054. Unknown column 'Football_players.playename' in 'on clause'	0.000 sec
8	12:57:21	select* from volleyball_players inner join football_players on volleyball_players.volleyball_id=football_players.football_id;	5 row(s) returned	0.000 sec / 0.000 sec
9	12:57:34	select * from volleyball_players LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
10	12:58:06	select* from volleyball_players inner join football_players on volleyball_players.player_name=football_players.player_name;	3 row(s) returned	0.000 sec / 0.000 sec

Type here to search

13:02
04-03-2024

Intersection

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

Navigator: Schemas

SCHEMAS Filter objects

college

players

Tables

football_players

volleyball_players

Views

Stored Procedures

Functions

sys

Query 1 ×

1 • use players;

2 • select * from volleyball_players;

3 • select*

4 from volleyball_players

5 inner join football_players on volleyball_players.player_name=football_players.player_name;

SQLAdditions

Automatic context help is disabled
Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Result Grid | Filter Rows: [] | Export: [] | Wrap Cell Content: []

	volleyball_id	player_name	age	football_id	player_name	age
▶	2	Ramesh	19	2	Ramesh	19
▶	4	Venkat	18	4	Venkat	18
▶	5	Anil	21	5	Anil	21

Result Grid

Form Editor

Administration Schemas

Result 6 ×

Read Only Context Help Snippets

Information

No object selected

Action Output

#	Time	Action	Message	Duration / Fetch
5	12:54:39	select* from volleyball_players inner join football_players on volleyball_players.player_name=football_players.player_name	Error Code: 1054. Unknown column 'football_players.playename' in 'on clause'	0.000 sec
6	12:55:07	select * from volleyball_players LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
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Object Info Session

Creating calculation field

The screenshot shows the Tableau Data Editor interface. The top navigation bar includes File, Data, Worksheet, Dashboard, Story, Analysis, Map, Format, Server, Window, and Help. Below the navigation is a toolbar with various icons for data manipulation. The left sidebar is titled 'Tables' and lists several dimensions and measures, such as 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..., and Measure Values. The main workspace displays a data grid titled 'Aggregate 2'. The columns are labeled 'Payment', 'Customer type', 'Cogs', 'Total', and 'Total Cogs'. The data shows values for different payment methods (Cash, Credit card, Ewallet) and customer types (Member, Normal). A 'Measure Names' shelf is visible on the right, containing 'Cogs', 'Gross Income', 'Gross Margin Percentage', 'Quantity', 'Rating', 'Rating Quantity', 'Tax 5%', 'Total', 'Total Cogs', 'Unit price', 'Latitude (generated)', 'Longitude (generated)', 'supermarket_sales - Sheet...', and 'Measure Values'. The 'Measure Values' shelf has three items: 'SUM(Cogs)', 'SUM(Total)', and 'AGG(Total Cogs)'.

Payment	Customer type	Cogs	Total	Total Cogs
Cash	Member	52,058	54,661	₹ 106,719.13
	Normal	54,805	57,546	₹ 112,350.84
Credit card	Member	55,020	57,771	₹ 112,791.92
	Normal	40,948	42,996	₹ 83,943.79
Ewallet	Member	49,325	51,791	₹ 101,115.68
	Normal	55,431	58,202	₹ 113,632.77

Creating calculation field

Book1 - Tableau license expires in 14 days

Worksheet Dashboard Story Analysis Map Format Server Window Help

Analytics

Superstore

Filters

Measure Names

Marks

Automatic

Color Size Text

Detail Tooltip

Measure Values

AGG(Calculation6)

SUM(Profit)

Sheet 4

Product Name	Calculation5	Calculation6	Profit
1.7 Cubic Foot Comp..	Profitable	96	579
1/4 Fold Party Desig..	Profitable	11	23
3-ring staple pack	Profitable	3	17
3.6 Cubic Foot	Non Profitable	-460	-1,379
Counter Height Offic..	Profitable	253	507
3D Systems Cube Pri..	Profitable	1,859	3,718
3D Systems Cube	Non Profitable	-572	-572
Printer, 2nd Generat..	Profitable	104	104
3M Hangers With	Non Profitable	-1	-1
Command Adhesive	Profitable	5	37
3M Office Air Cleaner	Profitable	45	91
3M Organizer Strips	Non Profitable	-5	-14
	Profitable	6	24
3M Polarizing Light	Non Profitable	-8	-8
Filter Sleeves	Profitable	28	83
3M Polarizing Task L..	Profitable	142	570
3M Replacement	Non Profitable	-109	-109
Filter for Office Air C..	Profitable	29	88
6" Cubicle Wall Clock,	Non Profitable	-6	-6
Black	Profitable	11	32
9-3/4 Diameter Rou..	Profitable	23	183
12 Colored Short Pe..	Profitable	1	3
12-1/2 Diameter	Non Profitable	-20	-137
Round Wall Clock	Profitable	29	144
14-7/8 x 11 Blue Bar ..	Profitable	43	173
24 Capacity Maxi Da..	Profitable	134	537
24-Hour Round Wall ..	Profitable	30	180
36X48 HARDFLOOR	Non Profitable	-20	-61
CHAIRMAT	Profitable	7	21
50 Colored Long Pen..	Profitable	7	33
2300 Heavy-Duty	Non Profitable	-1	-3
Transfer File System..	Profitable	12	24
4000 Highlighters	Profitable	2	2

2578 rows by 2 columns SUM of Measure Values: 336.406

Search

18:57 03-03-2024

Quick table calculation

Tableau - Book2 - Tableau license expires in 14 days

File Data Worksheet Dashboard Story Analysis Map Format Server Window Help

Standard

Show Me

Data Analytics < Pages

Sample - Superstore

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 (bin)

Segment

Ship Date

Ship Mode

Top Customers by Pr...

Discount

Profit

Quantity

Sales

Measure Names

YEAR(Order Date)

running total

Year of Order	Running Sum of Sales	Sales
2021	494,040	494,040
2022	967,033	472,993
2023	1,580,967	613,934
2024	2,326,534	745,568

Marks

- Automatic
- Color
- Size
- Text
- Detail
- Tooltip

Measure Values

SUM(Sales)

SUM(Sales)

For scatter plots try

0 or more Dimensions

2 to 4 Measures

The screenshot shows the Tableau desktop application interface. On the left, the 'Data' pane lists various dimensions and measures from the 'Sample - Superstore' data source. In the center, a table titled 'running total' displays the cumulative sum of sales over years. A shelf on the right contains two measure values: 'SUM(Sales)' repeated twice. The top navigation bar includes 'File', 'Data', 'Worksheet', 'Dashboard', 'Story', 'Analysis', 'Map', 'Format', 'Server', 'Window', and 'Help'. The bottom right corner features a 'Show Me' button and a grid of visualization preview icons.

Quick table calculations

Tableau - Book2 - Tableau license expires in 14 days

File Data Worksheet Dashboard Story Analysis Map Format Server Window Help

Data Analytics < Pages

Sample - Superstore

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 (bin)
- Segment
- Ship Date
- Ship Mode
- Top Customers by Pr...
- Discount
- Profit
- Quantity
- Sales

Parameters

- Profit Bin Size
- Top Customers

Standard

Measure Names

Category Sub-Category

rank

Category	Sub-Catego..	Profit	Rank of ..
Furniture	Bookcases	-3,632	3
	Chairs	27,224	1
	Furnishings	13,892	2
	Tables	-17,753	4
Office Supplies	Appliances	18,329	4
	Art	6,653	6
	Binders	31,426	2
	Envelopes	6,988	5
	Fasteners	2,429	8
	Labels	5,573	7
	Paper	34,512	1
	Storage	21,285	3
	Supplies	-1,171	9
Technology	Accessories	41,937	3
	Copiers	56,094	1
	Machines	3,462	4
	Phones	45,051	2

Sheet 1 Sheet 2 Sheet 3 Sheet 4 Sheet 5 Sheet 6 Sheet 7 Sheet 8 Sheet 9 Sheet 10 Sheet 11 Sheet 12 Sheet 13

Quick table calculations

Tableau - Book2 - Tableau license expires in 14 days

File Data Worksheet Dashboard Story Analysis Map Format Server Window Help

Standard

Data Analytics < Pages Columns Measure Names

Sample - Superstore Rows YEAR(Order Date) QUARTER(Order ..)

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 (bin)
- Segment
- Ship Date
- Ship Mode
- Top Customers by Pr...

Parameters

- Profit Bin Size
- Top Customers

moving average

Year of O..	Quarter ..	Moving Aver..	Sales
2021	Q1	75,972	75,972
	Q2	89,285	89,285
	Q3	145,535	145,535
	Q4	183,249	183,249
2022	Q1	70,392	70,392
	Q2	89,239	89,239
	Q3	130,449	130,449
	Q4	182,912	182,912
2023	Q1	94,840	94,840
	Q2	136,809	136,809
	Q3	145,539	145,539
	Q4	236,745	236,745
2024	Q1	125,289	125,289
	Q2	134,991	134,991
	Q3	198,184	198,184
	Q4	287,104	287,104