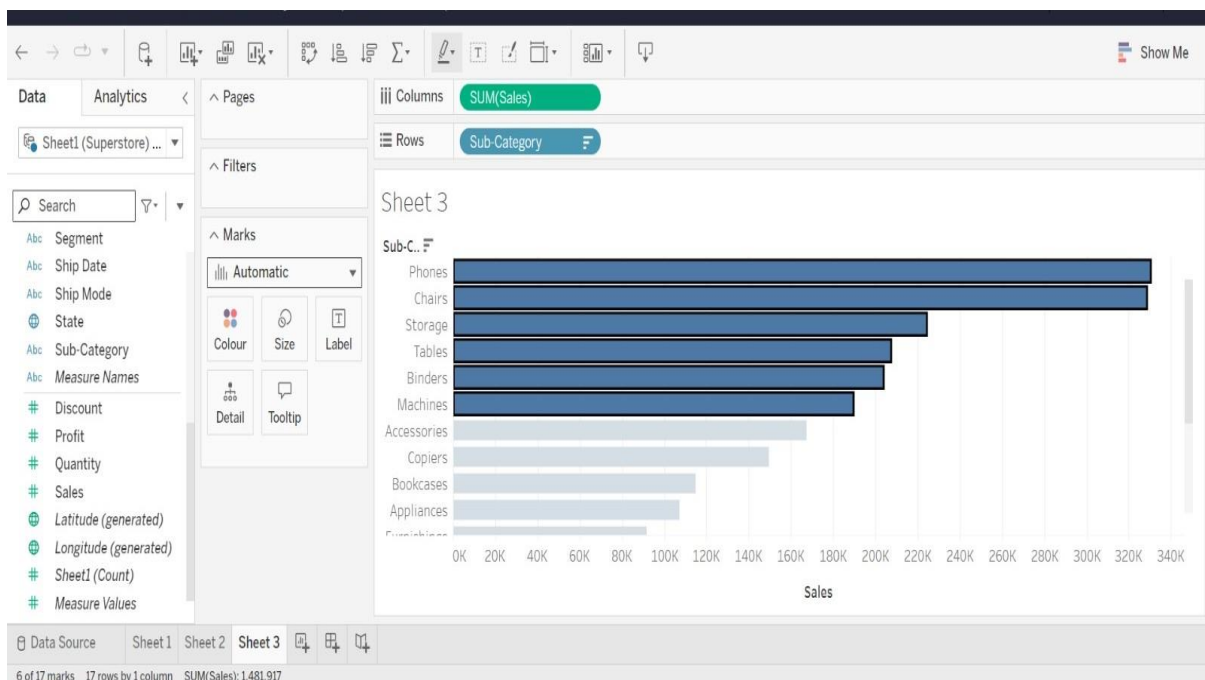
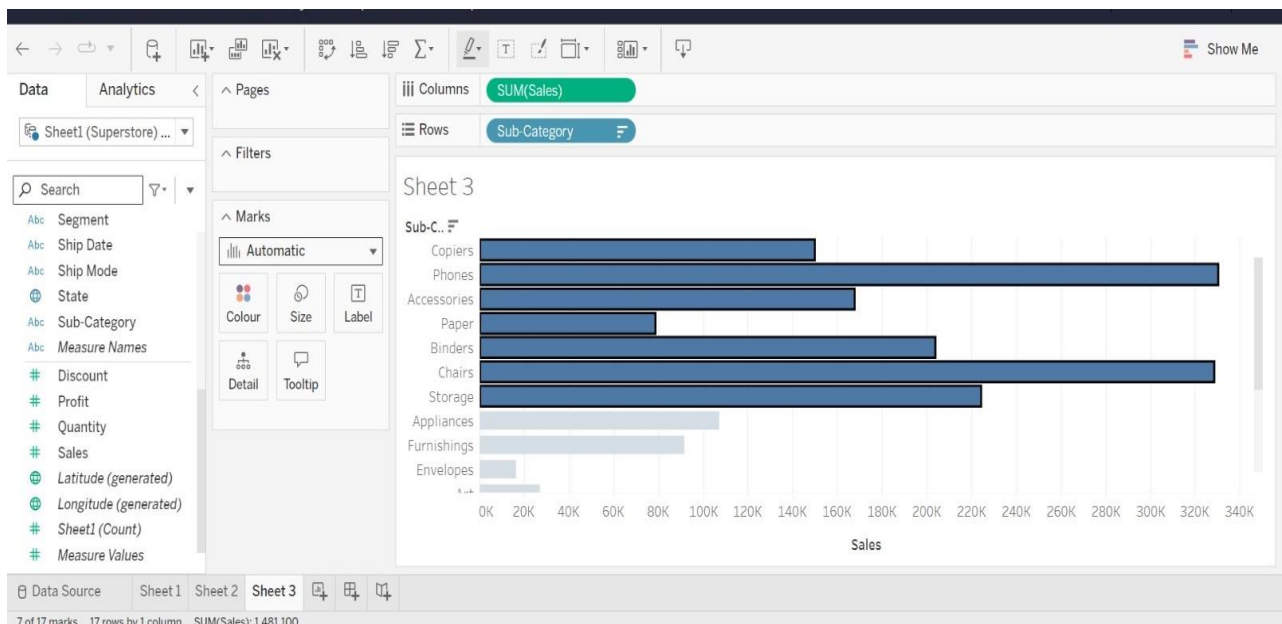


DA ASSIGNMENT-3

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1. Define at least two sets based on specific criteria from your dataset (e.g., high-value customers, top-performing products).



2. Experiment with combining sets using UNION, INTERSECT, and MINUS operations.

The screenshot shows the MySQL Workbench interface with a query window containing a UNION query. The query combines data from the `volleyball_players` and `football_players` tables. The results are displayed in a table with 6 columns: `volleyball_id`, `player_name`, `age`, `football_id`, `player_name`, and `age`. The output shows 5 rows from `volleyball_players` followed by 5 rows from `football_players`.

```
22 (2,'Ramesh',19),
23 (3,'Murali',21),
24 (4,'Venkat',18),
25 (5,'Anil',21);
26 select * from volleyball_players;
27 select * from football_players;
28 -- UNION
29 select*
30 from volleyball_players as v
31 right join football_players as f on v.player_name=f.player_name;
32
```

volleyball_id	player_name	age	football_id	player_name	age
1	Balu	20			
2	Ramesh	19	2	Ramesh	19
3	Murali	21	3	Murali	21
4	Venkat	18	4	Venkat	18
5	Anil	21	5	Anil	21

The bottom panel shows the execution log with the following entries:

#	Time	Action	Message	Duration / Fetch
10	07:39:11	insert into volleyball_players(volleyball_id,player_name,age)values (1,'Suresh',21), (2,'Ramesh',19), (3,'Uday',20),...	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds to your MySQL se...	0.000 sec
11	07:39:28	insert into volleyball_players(volleyball_id,player_name,age)values (1,'Suresh',21), (2,'Ramesh',19), (3,'Uday',20),...	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.016 sec
12	07:41:09	insert into football_players(football_id,player_name,age)values (1,'Balu',20), (2,'Ramesh',19), (3,'Murali',21), (4,'V...	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.000 sec
13	07:41:56	select * from volleyball_players LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
14	07:42:18	select * from football_players LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
15	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	5 row(s) returned	0.000 sec / 0.000 sec

The screenshot shows the MySQL Workbench interface with a query window containing an incorrect INNER JOIN query. The query attempts to join `volleyball_players` and `football_players` on `player_name` but includes an additional column `volleyball_players.player_name` in the join condition, which is not a valid column reference. The results window shows the same data as the previous screenshot, but the execution log indicates an error.

```
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;
```

volleyball_id	player_name	age	football_id	player_name	age
1	Balu	20			
2	Ramesh	19	2	Ramesh	19
4	Venkat	18	4	Venkat	18
5	Anil	21	5	Anil	21

The bottom panel shows the execution log with the following entries:

#	Time	Action	Message	Duration / Fetch
5	12:54:39	select* from volleyball_players inner join football_players on volleyball_players.player_name=football_players.pla...	Error Code: 1054. Unknown column 'football_players.player_name' 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.pla...	Error Code: 1054. Unknown column 'football_players.player_name' in 'on clause'	0.000 sec
8	12:57:21	select* from volleyball_players inner join football_players on volleyball_players.volleyba_id=football_players.foo...	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.pla...	3 row(s) returned	0.000 sec / 0.000 sec

Calculation-1: [Profit]-[Discount]

Calculation-2: IF [Profit]>0 THEN "Profitable" ELSE "Non Profitable"
END

File Data Worksheet Dashboard Story Analysis Map Formulas Server Window Help

Home Undo Redo Copy Paste Find & Replace Sort & Filter Show Me

Data Analytics Pages

Sample - Superstore

Search

Tables

- Calculation5
- Customer Name
- Location
 - Country/Region
 - Region
 - State/Province
 - City
 - Postal Code
- Order Date
- Order ID
- Product
 - Category
 - Sub-Category
 - Manufacturer
 - Product Name
- Profit (bn)
- Segment
- Ship Date
- Ship Mode
- Top Customers by Pr...
- Calculation1
- Calculation2
- Discount
- Profit

Parameters

- Profit Bin Size
- Top Customers

Columns

Product Name Calculation5

Rows

Filters

Search

Marks

Automatic

Color Size Text

Detail Tooltip

SUM(Profit)

Sheet 4

Product Name	Calculation5	
1.7 Cubic Foot Com...	Profitable	579
1/4 Fold Party Desi...	Profitable	23
3-ring staple pack	Profitable	17
3.6 Cubic Foot	Non Profitable	-1,379
Counter Height Offi...	Profitable	507
30 Systems Cube Pri...	Profitable	3,718
30 Systems Cube	Non Profitable	-572
Printer, 2nd Generat...	Profitable	104
3M Hangers With	Non Profitable	-1
Command Adhesive	Profitable	37
3M Office Air Cleaner	Profitable	91
3M Organizer Strips	Non Profitable	-14
	Profitable	24
3M Polarizing Light	Non Profitable	-8
Filter Sleeves	Profitable	83
3M Polarizing Task L...	Profitable	570
3M Replacement	Non Profitable	-109
Filter for Office Air C...	Profitable	88
6" Cubicle Wall Clock	Non Profitable	-6
Black	Profitable	32
9-3/4 Diameter Rou...	Profitable	183
12 Colored Short Pe...	Profitable	3
12-1/2 Diameter	Non Profitable	-137
Round Wall Clock	Profitable	144
14-7/8 x 11 Blue Bar ..	Profitable	173
24 Capacity Maxi Da...	Profitable	537
24-Hour Round Wall ..	Profitable	180
36X48 HARDFLOOR	Non Profitable	-61
CHAIRMAT	Profitable	21
50 Colored Long Pen...	Profitable	33
2300 Heavy-Duty	Non Profitable	-3
Transfer File System...	Profitable	24
2000 Washable...	Profitable	2

0 Data Source Sheet 1 Sheet 2 Sheet 3 Sheet 4

2578 marks 2578 rows by 1 column SUM(Profit): 292,297

4. Create any 3 visualization using quick Table Calculations.

- **Percentile:** Calculates value of specified percentile for a given measure.

The screenshot shows the Tableau Desktop interface with a table calculation titled "percentile". The columns are "Category", "Sub-Category", "Percentile of S...", and "Sales". The rows are categorized by "Category" and "Sub-Category". The table displays the percentile of sales for each sub-category within each category.

Category	Sub-Category	Percentile of S...	Sales
Furniture	Bookcases	50.00%	115,361
	Chairs	100.00%	335,768
	Furnishings	37.50%	95,598
	Tables	81.25%	208,020
Office Supplies	Appliances	43.75%	108,213
	Art	18.75%	27,659
	Binders	75.00%	207,355
	Envelopes	12.50%	16,528
Technology	Fasteners	0.00%	8,532
	Labels	6.25%	12,695
	Paper	31.25%	79,541
	Storage	87.50%	224,645
Technology	Supplies	25.00%	46,725
	Accessories	62.50%	167,380
	Copiers	56.25%	150,745
	Machines	68.75%	189,925
Technology	Phones	93.75%	331,843

- **Year To Date(YTD) Growth:** Computes the year over year growth rate of a measure from beginning of the year to current year.

The screenshot shows the Tableau Desktop interface with a table calculation titled "YTD total". The columns are "Year of O...", "Quarter ..", "Profit", and "Running Sum of ...". The rows are categorized by "Year of O..." and "Quarter ..". The table displays the year-over-year growth rate of profit from the beginning of the year to the current year.

Year of O...	Quarter ..	Profit	Running Sum of ...
2021	Q1	4,095	4,095
	Q2	11,685	15,780
	Q3	13,517	29,298
	Q4	22,387	51,684
2022	Q1	9,555	9,555
	Q2	12,200	21,755
	Q3	16,880	38,635
	Q4	23,386	62,021
2023	Q1	11,628	11,628
	Q2	16,595	28,223
	Q3	16,247	44,471
	Q4	38,195	82,665
2024	Q1	23,859	23,859
	Q2	15,504	39,363
	Q3	27,545	66,908
	Q4	29,018	95,926

- **Compound Growth Rate:** It measures the growth rate of any business activity over specified period of time, growth rate is compound annually.

