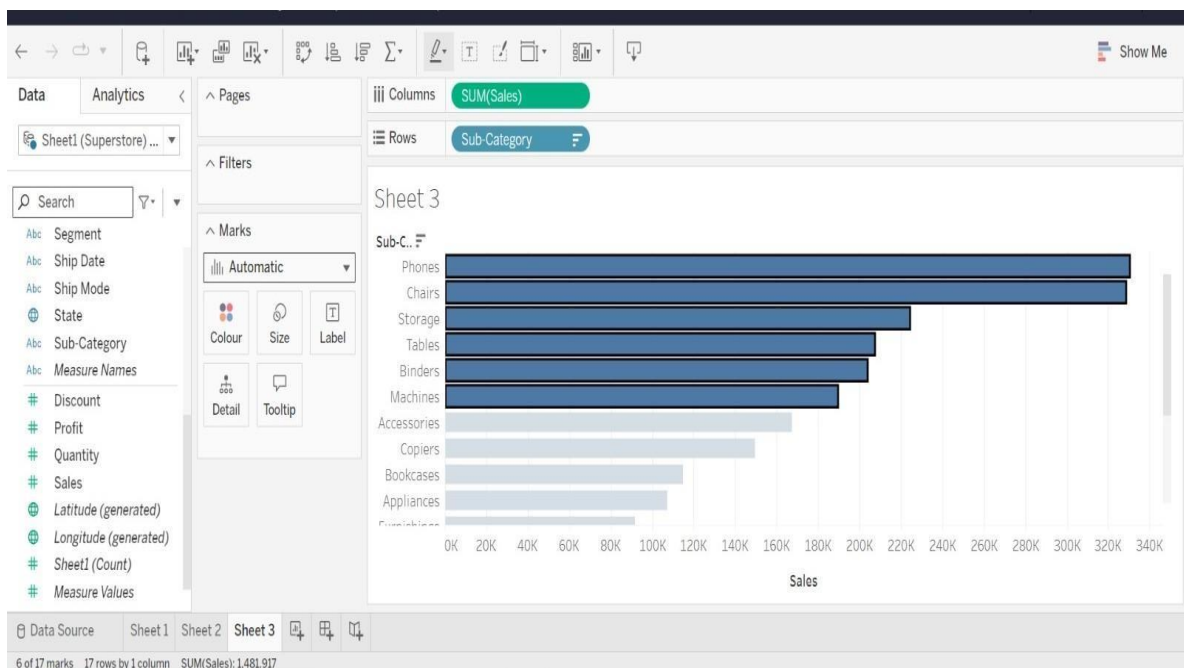
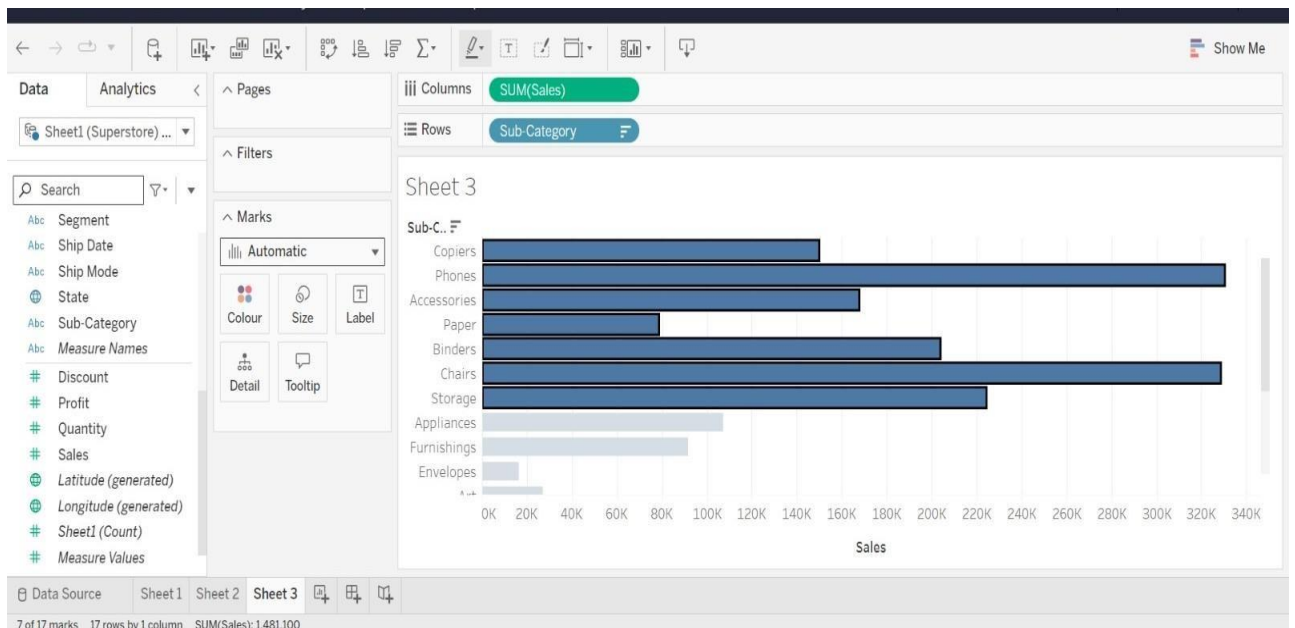


# DA ASSIGNMENT-3

**KOLLAMURI CHINMAYEE**

**SRI PADMAVATHI MAHILA VISVAVIDYALAYAM UNIVERSITY**

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. The query editor contains the following SQL code:

```
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
```

The result grid displays the following data:

volleyball_id	player_name	age	football_id	player_name	age
1	Ramesh	19	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 messages:

- 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. The query editor contains the following SQL code:

```
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;
```

The result grid displays the following data:

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

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

- 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.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.player\_name; 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.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

### 3. Create 2 Calculation field using any aggregate function.

#### Calculation field-1:

The screenshot shows the Tableau Desktop interface. The 'Columns' shelf contains 'Measure Names' and 'Product Name'. The 'Rows' shelf contains 'Category' and 'Product Name'. The 'Marks' shelf is set to 'Automatic'. The 'Filters' shelf is empty. The 'Measure Values' shelf contains 'SUM(Discount)', 'SUM(Profit)', and 'SUM(Calculation1)'. The 'Calculation1' field is defined as 'SUM(Discount)'. The 'Table' list on the left shows 'Orders' and 'People'. The 'Parameters' list shows 'Profit Bin Size' and 'Top Customers'. The 'Table' list on the right shows 'Orders' and 'People'. The 'Table' list on the right shows 'Orders' and 'People'.

Category	Product Name	Discount	Profit	Calculation1
Furniture	3M Hangers With Co...	1	36	35
	3M Polarizing Light...	1	75	75
	3M Polarizing Task L...	0	570	570
	6" Cubicle Wall Clo...	1	26	25
	9-3/4 Diameter Rou...	0	183	183
	12-1/2 Diameter Ro...	5	7	3
	24-Hour Round Wall ...	0	180	180
	36X48 HARDFLOOR...	1	-40	-42
	Acrylic Self-Standin...	1	33	32
	Advantus Employee...	0	312	312
	Advantus Panel Wall...	1	25	24
	Advantus Panel Wall...	0	108	108
	Aluminum Documen...	1	85	84
	Anderson Hickey Co...	1	-18	-18
	Artistic Insta-Plaue...	0	61	61
	Atlantic Metals Mob...	2	-311	-313
	Atlantic Metals Mob...	1	780	779
	Atlantic Metals Mob...	2	-126	-128
	Atlantic Metals Mob...	3	15	13
	Balt Solid Wood Rec...	1	-216	-217
	Balt Solid Wood Rou...	1	-1,201	-1,202
	Balt Split Level Com...	2	-387	-389
	Barricks 18" x 48" N...	2	-105	-106
	Barricks Non-Foldin...	0	15	15
	Bestar Classic Bookc...	3	-613	-615
	Bevis 36 x 72 Confer...	1	448	447
	Bevis 44 x 96 Confer...	1	-165	-166
	Bevis Boat-Shaped C...	2	-446	-447
	Bevis Oval Conferen...	2	-856	-858
	Bevis Rectangular C...	2	-587	-589
	Bevis Round Bullnos...	1	-192	-193
	Bevis Round Confere...	1	-39	-40

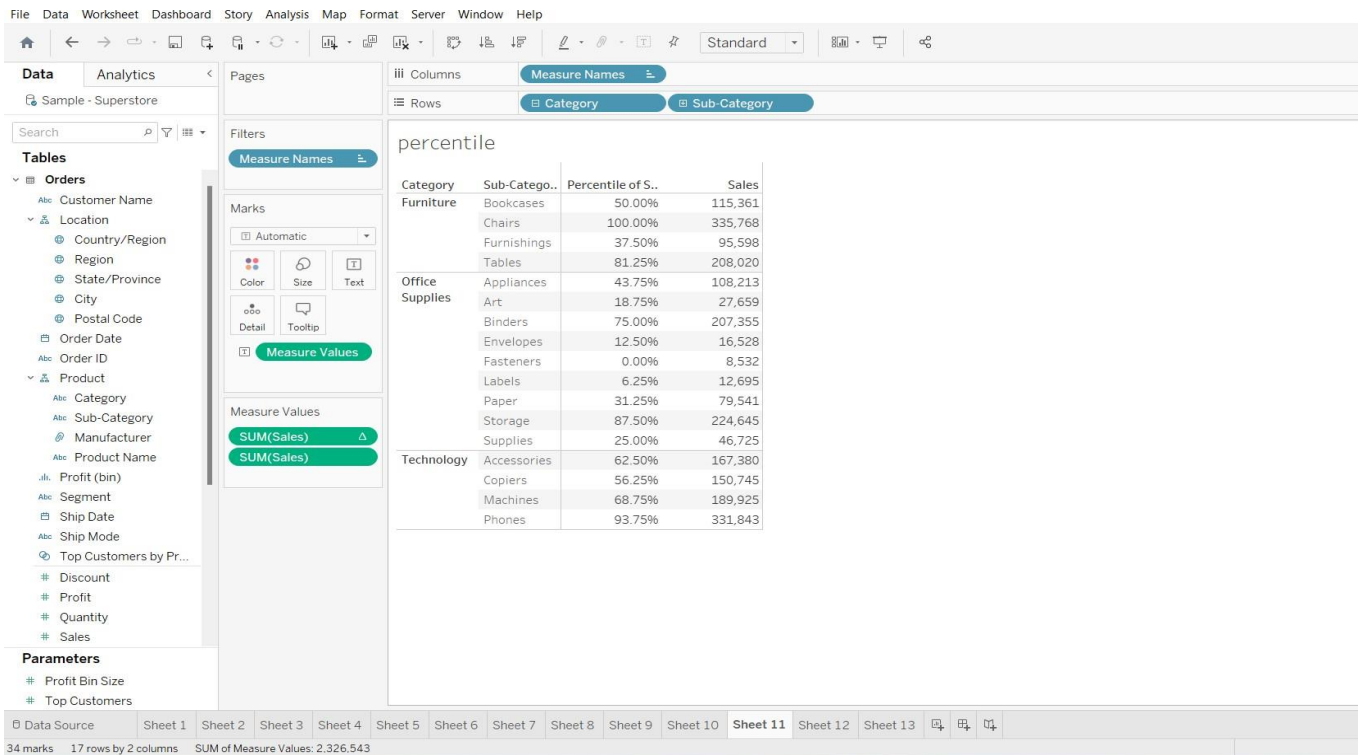
#### Calculation field-2:

The screenshot shows the Tableau Desktop interface. The 'Columns' shelf contains 'Product Name' and 'Calculation5'. The 'Rows' shelf is empty. The 'Marks' shelf is set to 'Automatic'. The 'Filters' shelf is empty. The 'Measure Values' shelf contains 'SUM(Profit)'. The 'Table' list on the left shows 'Calculation5', 'Customer Name', 'Location', 'Product', and 'Parameters'. The 'Table' list on the right shows 'Calculation5', 'Customer Name', 'Location', 'Product', and 'Parameters'.

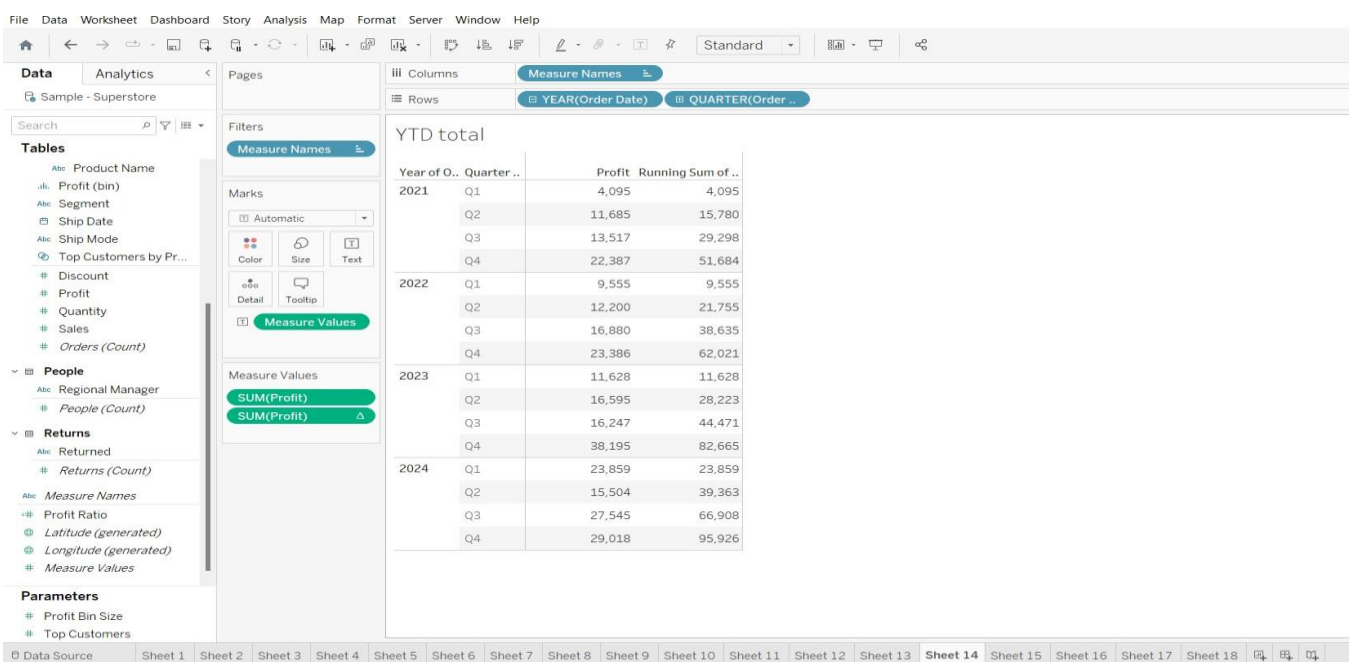
Product Name	Calculation5
1.7 Cubic Foot Comp...	Profitable 579
1/4 Fold Party Desig...	Profitable 23
3-ring staple pack	Profitable 17
3.6 Cubic Foot	Non Profitable -1,379
Counter Height Offic...	Profitable 507
3D Systems Cube Pri...	Profitable 3,718
3D Systems Cube	Non Profitable -572
Printer, 2nd Generat...	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

## 4. Create any 3 visualization using quick Table Calculations.

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



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



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

