

## DA ASSIGNMENT 3

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

Tableau - Book1

File Data Worksheet Dashboard Story Analysis Map Format Server Window Help

Search

**Data** Analytics

Orders (Sample - Superst...

**Tables**

- Orders
  - Category
  - City
  - Country
  - Customer ID
  - Customer Name
  - Customer Name Set
  - Order Date
  - Order ID
  - Postal Code
  - Product ID
  - Product Name
  - Region
  - Row ID
  - Sales Set
  - Segment
  - Ship Date
  - Ship Mode
  - State
  - Sub-Category
  - Discount
  - Profit
  - Quantity
  - Sales
  - Orders (Count)
- People
  - Person

**Filters**

**Marks**

Automatic

Color Size Text

Detail Tooltip

SUM(Sales)

**Columns**

**Rows** Customer Name IN/OUT(Sales Set)

in/out sales sets

Customer Name	In / Out o..	
Aaron Bergman	Out	886
Aaron Hawkins	Out	1,745
Aaron Smayling	Out	3,051
Adam Bellavance	Out	7,756
Adam Hart	Out	3,250
Adam Shillingsburg	Out	3,255
Adrian Barton	In	9,893
	Out	4,581
Adrian Hane	Out	1,736
Adrian Shami	Out	59
Aimee Bixby	Out	967
Alan Barnes	Out	1,114
Alan Dominguez	Out	6,107
Alan Haines	Out	1,587
Alan Hwang	Out	4,805
Alan Schoenberger	Out	4,261
Alan Shonely	Out	585
Alejandro Ballentine	Out	915
Alejandro Grove	Out	2,583
Alejandro Savely	Out	3,214
Aleksandra Gannaw..	Out	368
Alex Avila	Out	5,564
Alex Grayson	Out	661
Alex Russell	Out	1,056
Alice McCarthy	Out	814
Allen Arnold	Out	1,056
Allen Goldenen	Out	201
Allen Rosenblatt	Out	2,236
Alyssa Crouse	Out	926
Alyssa Tate	Out	1,172
Amy Cox	Out	5,528
Amy Hunt	Out	2,495
Andrew Allen	Out	1,701

Data Source in/out sales sets Sheet 2 Calculation Field 1 Calculation Field 2 Running Total Difference Rank and Percentile

803 marks 803 rows by 1 column SUM(Sales): 2,297,201

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

Tableau - Book1

File Data Worksheet Dashboard Story Analysis Map Format Server Window Help

Standard

Show Me

Data Analytics

Orders (Sample - Superst...

Search

Tables

Orders

- Category
- City
- Country
- Customer ID
- Customer Name
- Customer Name Set
- Order Date
- Order ID
- Postal Code
- Product ID
- Product Name
- Region
- Row ID
- Sales Set
- Segment
- Ship Date
- Ship Mode
- State
- Sub-Category
- Discount
- Profit
- Quantity
- Sales
- Orders (Count)

People

- Person

Filters

Measure Names

Marks

Automatic

Color Size Text

Detail Tooltip

Measure Values

SUM(Sales)

SUM(Sales)

Columns

Measure Names

Rows

Customer Name IN/OUT(Custome.. IN/OUT(Sales ..

Sheet 2

Customer Name	In / Out o..	In / Out o..	Sales	Differen..
Aaron Bergman	Out	Out	886	
Aaron Hawkins	Out	Out	1,745	859
Aaron Smayling	Out	Out	3,051	1,306
Adam Bellavance	Out	Out	7,756	4,705
Adam Hart	Out	Out	3,250	-4,505
Adam Shillingsburg	Out	Out	3,255	5
Adrian Barton	In	Out	4,581	1,326
		In	9,893	5,312
Adrian Hane	Out	Out	1,736	-8,157
Adrian Shami	Out	Out	59	-1,677
Aimee Bixby	Out	Out	967	908
Alan Barnes	Out	Out	1,114	147
Alan Dominguez	Out	Out	6,107	4,993
Alan Haines	Out	Out	1,587	-4,519
Alan Hwang	Out	Out	4,805	3,218
Alan Schoenberger	Out	Out	4,261	-545
Alan Shonely	Out	Out	585	-3,676
Alejandro Ballentine	Out	Out	915	330
Alejandro Grove	Out	Out	2,583	1,668
Alejandro Savely	Out	Out	3,214	631
Aleksandra Gannaw..	Out	Out	368	-2,847
Alex Avila	Out	Out	5,564	5,196
Alex Grayson	Out	Out	661	-4,903
Alex Russell	Out	Out	1,056	395
Alice McCarthy	Out	Out	814	-242
Allen Arnold	Out	Out	1,056	242
Allen Goldenen	Out	Out	201	-855
Allen Rosenblatt	Out	Out	2,236	2,035
Alyssa Crouse	Out	Out	926	-1,310
Alyssa Tate	Out	Out	1,172	246
Amy Cox	Out	Out	5,528	4,356
Amy Hunt	Out	Out	2,495	-3,032
Andrew Allen	Out	Out	1,701	705

Data Source in/out sales sets Sheet 2 Calculation Field 1 Calculation Field 2 Running Total Difference Rank and Percentile

1606 marks 803 rows by 2 columns SUM of Measure Values: 2,297,809

3. Create2Calculation field using any aggregate function.
  - a. Calculation 1

Tableau - Book1

File Data Worksheet Dashboard Story Analysis Map Format Server Window Help

Standard

Show Me

Data Analytics

Orders (Sample - Superst...)

Search

Tables

- Orders
  - Category
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  - Customer Name
  - Customer Name Set
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  - State
  - Sub-Category
  - Discount
  - Profit
  - Quantity
  - Sales
  - Orders (Count)
- People
  - Person

Filters

Measure Names

Marks

Automatic

Color Size Text

Detail Tooltip

Measure Values

SUM(Sales)

AGG(AVG Profit - cal..)

SUM(Sales)

Calculation Field 1

Category	AVG Profit - calculation feild	Sales
Furniture	9	742,000
Office Supplies	20	719,047
Technology	79	836,154

Category: Office Supplies  
Sales: 719,047  
AVG Profit - calculation feild: 20

6 marks 3 rows by 2 columns SUM of Measure Values: 2,297,309

## b. Calculation 2

Tableau - Book1

File Data Worksheet Dashboard Story Analysis Map Format Server Window Help

Standard

Show Me

Data Analytics

Orders (Sample - Superst...

Search

Tables

- Sales Set
- Segment
- Ship Date
- Ship Mode
- State
- Sub-Category
- Discount
- Profit
- Quantity
- Sales
- Orders (Count)

People

- Person
- Region (People)
- People (Count)

Returns

- Order ID (Returns)
- Returned
- Returns (Count)

Measure Names

Measure Values

SUM(Sales)

AGG(Profit/sales (pr..)

Calculation Field 2

Category	Country	Sales	Profit/sales (profit margin)
Furniture	United States	742,000	2
Office Supplies	United States	719,047	17
Technology	United States	836,154	17

6 marks 3 rows by 2 columns SUM of Measure Values: 2,297,238

4. Create any 3 visualization using quick Table Calculations
  - a. Running Total

Tableau - Book1

File Data Worksheet Dashboard Story Analysis Map Format Server Window Help

Standard

Show Me

Data

Analytics

Orders (Sample - Superst...

Search

Tables

Sales Set

Segment

Ship Date

Ship Mode

State

Sub-Category

Discount

Profit

Quantity

Sales

Orders (Count)

People

Person

Region (People)

People (Count)

Returns

Order ID (Returns)

Returned

Returns (Count)

Measure Names

AVG Profit - calculation f...

Profit/sales (profit marg...

Latitude (generated)

Longitude (generated)

Measure Values

Filters

Measure Names

Marks

Automatic

Color

Size

Text

Detail

Tooltip

Measure Values

Measure Values

SUM(Sales)

SUM(Sales)

Columns

Measure Names

Rows

Category

Region

Running Total

Category	Region	Running Sum of Sales along Table (Down)	Sales
Furniture	Central	163,797	163,797
	East	372,088	208,291
	South	489,387	117,299
	West	742,000	252,613
Office Supplies	Central	909,026	167,026
	East	1,114,542	205,516
	South	1,240,194	125,651
	West	1,461,047	220,853
Technology	Central	1,631,463	170,416
	East	1,896,437	264,974
	South	2,045,209	148,772
	West	2,297,201	251,992

Data Source

in/out sales sets

Sheet 2

Calculation Field 1

Calculation Field 2

Running Total

Difference

Rank and Percentile

24 marks

12 rows by 2 columns

SUM of Measure Values: 16,659,592

## b. Difference

Tableau - Book1

File Data Worksheet Dashboard Story Analysis Map Format Server Window Help

Standard

Show Me

Data Analytics

Orders (Sample - Superst...)

Search

Tables

- Sales Set
- Segment
- Ship Date
- Ship Mode
- State
- Sub-Category
- Discount
- Profit
- Quantity
- Sales
- Orders (Count)

People

- Person
- Region (People)
- People (Count)

Returns

- Order ID (Returns)
- Returned
- Returns (Count)

Measure Names

- AVG Profit - calculation f...
- Profit/sales (profit marg...
- Latitude (generated)
- Longitude (generated)
- Measure Values

Filters

Measure Names

Marks

Automatic

Color Size Text

Detail Tooltip

Measure Values

SUM(Profit) Δ

SUM(Profit)

Columns

Measure Names

Rows

Category Segment

### Difference

Category	Segment	Difference in Profit from the Previous along Table (Down)	Profit
Furniture	Consumer		6,991
	Corporate	594	7,585
	Home Office	-3,709	3,875
Office Supplies	Consumer	52,455	56,330
	Corporate	-16,103	40,227
	Home Office	-14,294	25,933
Technology	Consumer	44,865	70,798
	Corporate	-26,631	44,167
	Home Office	-13,677	30,490

18 marks 9 rows by 2 columns SUM of Measure Values: 309,896

### c. Rank

Tableau - Book1

File Data Worksheet Dashboard Story Analysis Map Format Server Window Help

Standard

Show Me

Data Analytics

Pages

Columns Measure Names

Rows Category

Search

Tables

- Sales Set
- Segment
- Ship Date
- Ship Mode
- State
- Sub-Category
- Discount
- Profit
- Quantity
- Sales
- Orders (Count)

People

- Person
- Region (People)
- People (Count)

Returns

- Order ID (Returns)
- Returned
- Returns (Count)

Measure Names

- AVG Profit - calculation f...
- Profit/sales (profit marg...
- Latitude (generated)
- Longitude (generated)
- Measure Values

Filters

Measure Names

Marks

Automatic

Color Size Text

Detail Tooltip

Measure Values

SUM(Sales)

SUM(Sales)

## Rank

Category	Rank of Sales along Table (Down)	Sales
Technology	1	836,154
Furniture	2	742,000
Office Supplies	3	719,047

Data Source in/out sales sets Sheet 2 Calculation Field 1 Calculation Field 2 Running Total Difference Rank

6 marks 3 rows by 2 columns SUM of Measure Values: 2,297,207