Tableau Desktop Specialist - Practice Test 2 Solutions

(*highlighted ones are the correct answer(s))

1. Which of the following changes can be stored in a TDS file?
    a. Visualization
    b. Default Aggregation
    c. Hierarchies
    d. Calculated Fields

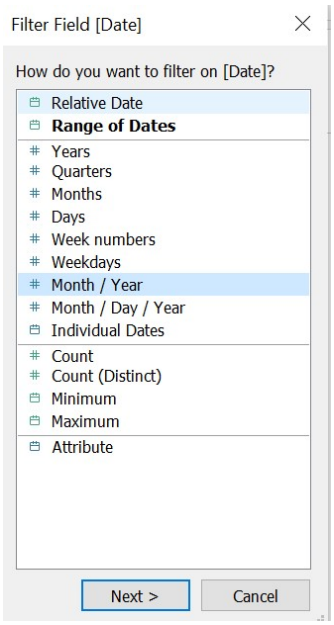
2. How many marks you will get in the view if you drop one continuous measure in the rows shelf and one dimension having 11 distinct members in column shelf?
    a. 1
    b. 12
    c. 6
    d. 11

    Dimensions provide the granularity in the chart; in this scenario you will get 11 distinct marks.

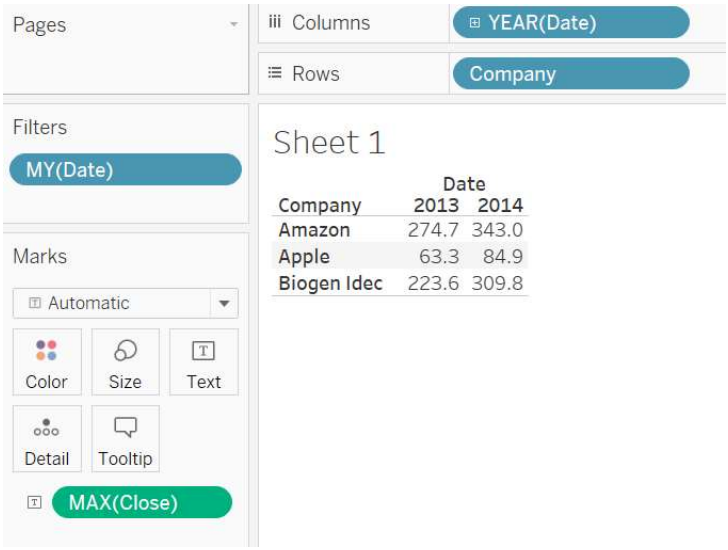
3. Connect to the "tds_sample_data_all" data source and create a union of tables Stocks 2010-2013 and Stocks 2014. Find out what is the percentage growth in maximum closing price of Apple in Q2 April 2014 compared to Q2 April 2013.
    a. 34.20%
    b. 24.90%
    c. 16.30%
    d. 38.50%

    Create a union using tables Stocks 2010-2013 and Stocks 2014.

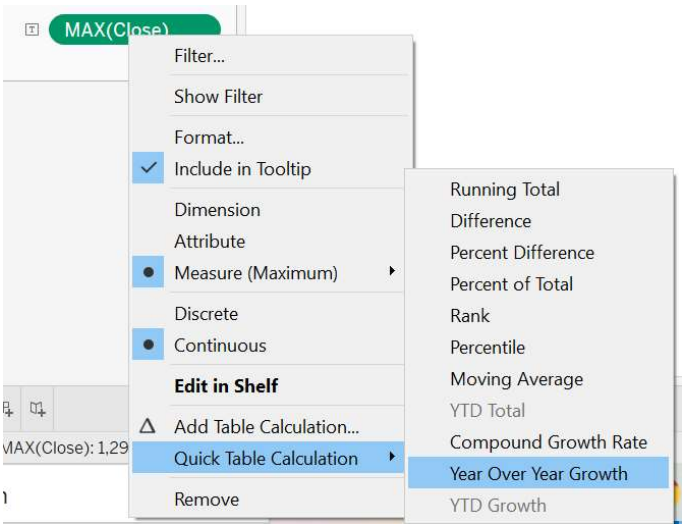
    Drop the Date to Columns, Company to Rows, Close Price to the Text and change the aggregation to MAX.
    Also, drop the Date to the filters shelf and select Month\Year.



select April 2013 and April 2014



Apply the Quick Table Calculation and Select Year over Year growth.



	Date	
Company	2013	2014
Amazon		24.86%
Apple		34.18%
Biogen Idec		38.54%

4. Which of the following are the dashboard objects?
    a. Web Part
    b. Web Page
    c. Image
    d. Extension

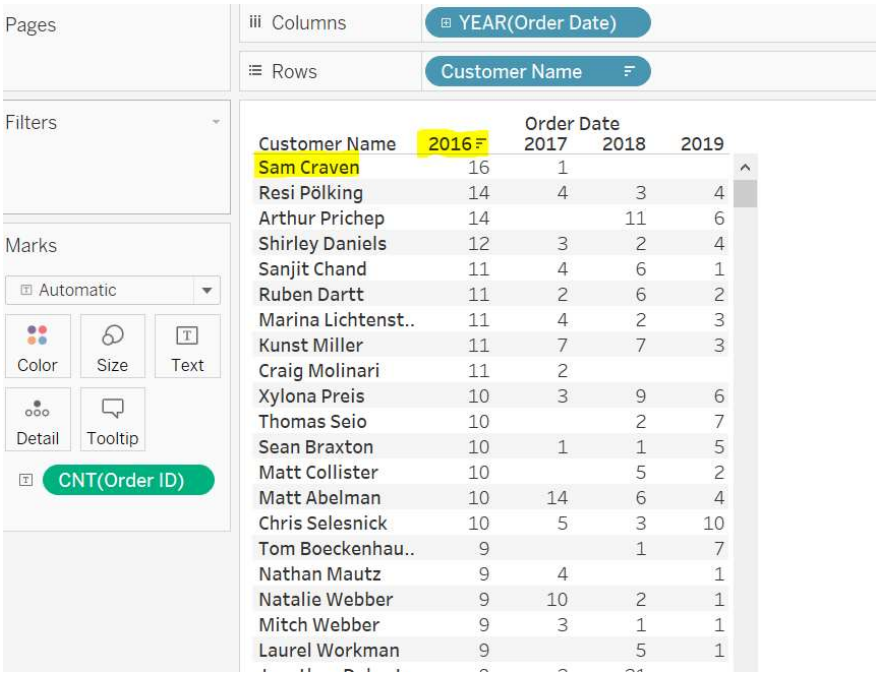
5. Bar chart is most appropriate to use when?
    a. View trends in data over time
    b. Show the relationship between two measures
    c. Compare data across categories
    d. Show duration over time

6. What is the selected mark type to create the highlight table?
    a. Circle
    b. Square
    c. Text
    d. Shape

7. Connect to the "Sample - Superstore" data source and use Orders table. Find out the customer name who ordered maximum items in 2016?
    a. Sam Craven
    b. Kunst Miller
    c. Matt Abelman

d. Ben Ferrer

Drop the Order Date to the Columns and Customer Name to the Rows. Aggregate the Dimension Order ID based on the count and drop that to the Text. Sort it for 2016.



Customer Name	Order Date 2016	2017	2018	2019
Sam Craven	16	1		
Resi Pölking	14	4	3	4
Arthur Prichep	14		11	6
Shirley Daniels	12	3	2	4
Sanjit Chand	11	4	6	1
Ruben Dartt	11	2	6	2
Marina Lichtenst..	11	4	2	3
Kunst Miller	11	7	7	3
Craig Molinari	11	2		
Xylona Preis	10	3	9	6
Thomas Seio	10		2	7
Sean Braxton	10	1	1	5
Matt Collister	10		5	2
Matt Abelman	10	14	6	4
Chris Selesnick	10	5	3	10
Tom Boeckenhau..	9		1	7
Nathan Mautz	9	4		1
Natalie Webber	9	10	2	1
Mitch Webber	9	3	1	1
Laurel Workman	9		5	1

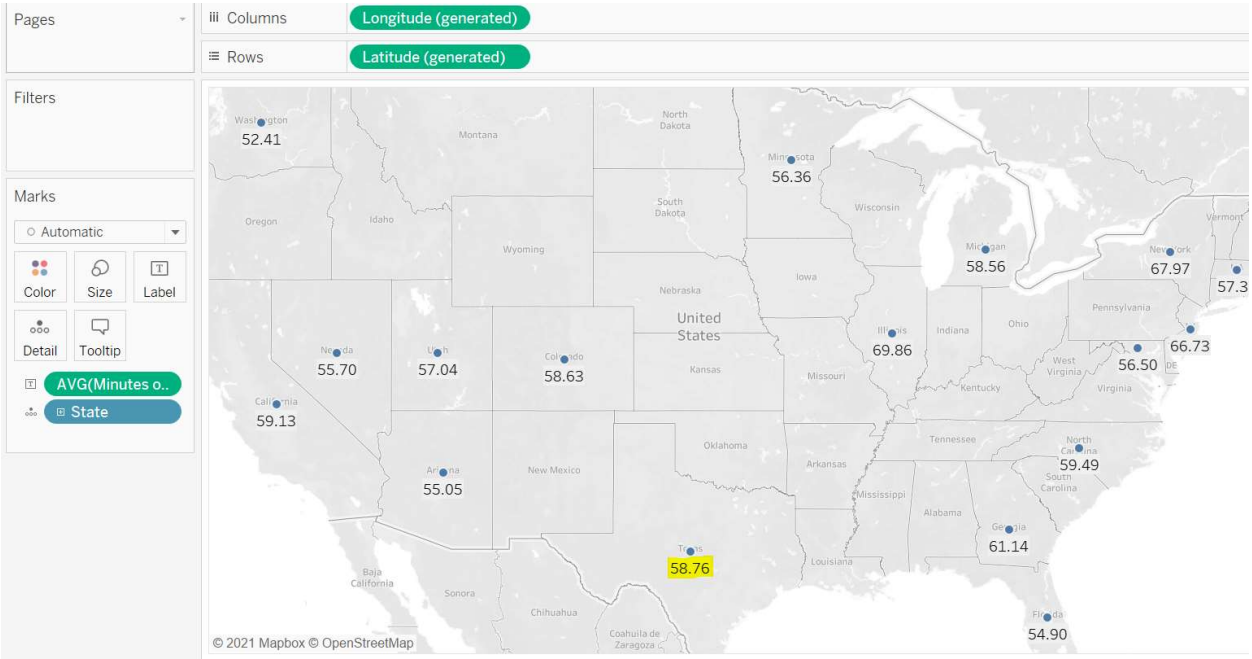
Sam Craven has ordered maximum 16 items in the year 2016.

8. Which of the following best describes the frequency distribution of the measure values?
   a. Reference Lines
   b. Trend Lines
   c. Histogram
   d. Heat Maps

9. In which of the scenario, it is best to use the union to combine the data?
   a. The data to combine is at different level of detail
   b. The data to combine comes from different excel files
   c. The data to combine has same structure but for different countries
   d. None of the above

10. Connect to the "tds_sample_data_all" data source and use table "Flights", and create a map chart to find out the average minutes of delay per flight in Texas State?
    a. 59.03
    b. 58.63
    c. 59.72
    d. 58.76

Drop the State to the view. (If you are getting error like 17 unknown, go to Map -> Edit locations -> Select United States in Country/Region)
Drop the minutes of delay per flight to the Label marks card, and change the aggregation to AVG.



58.76 is the correct answer.

11. Which of these are Tableau generated fields? (Select all that apply)
    a. Measure Name
    b. Measure Value
    c. Country
    d. Latitude

12. What are the Animation styles in Tableau? (Select all that apply)
    a. Sequential
    b. Parallel
    c. Simultaneous
    d. Linear

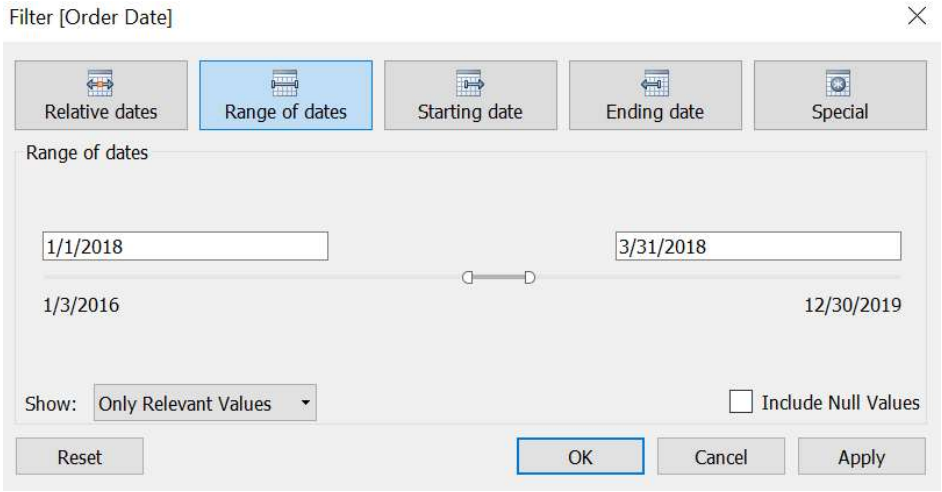
13. In Trend lines, which statistical measure define how well the trend fits the data?
    a. R-squared
    b. P-value
    c. P-squared
    d. R-value

14. You want to find out the top 10 products on the basis of the sales for Central region. But your view is showing only 5 products. How to solve this issue?
    a. Use Table Calculation
    b. Apply Context filter to region
    c. Add Product Name to Context filter
    d. Add Sales to Context filter

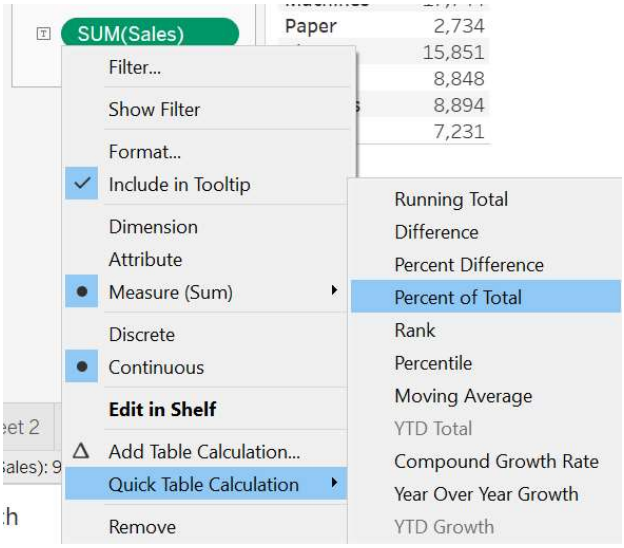
15. Which of the following are true? (Select all that apply)
    a. Measures are always aggregated
    b. Dimension increases the granularity of the view
    c. Quick table calculations can be applied to dimensions
    d. Measure can never be discrete

16. Connect to the "Sample - Superstore" data source and use Orders table. Which subcategory contributed most in the sales in first quarter (Jan to March) of 2018, and what is the contribution percent?
    a. Phones, 21.9%
    b. Machines, 19.03%
    c. Tables, 17.65%
    d. Storage, 14.31%

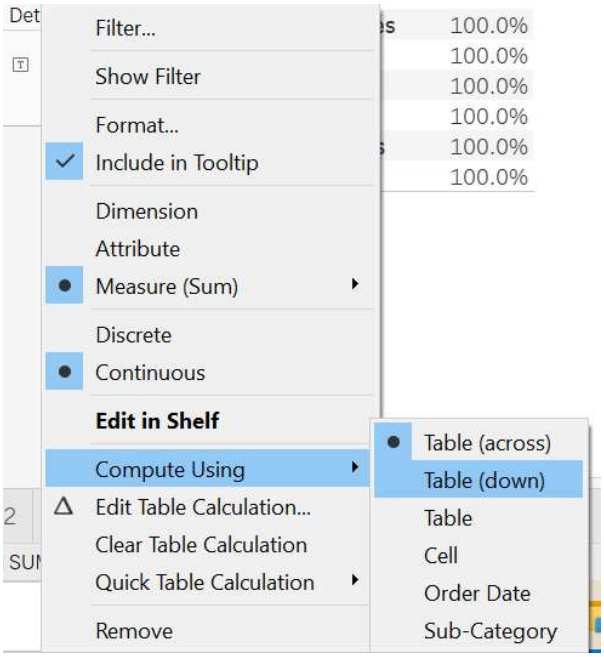
    Drop the Order Date to the columns and Sub-Category to the rows.
    Drop the Order Date to the filters shelf and select the Range of date as:



    Drop the Sales to the Text.
    Apply the quick table calculation -> Percent of Total



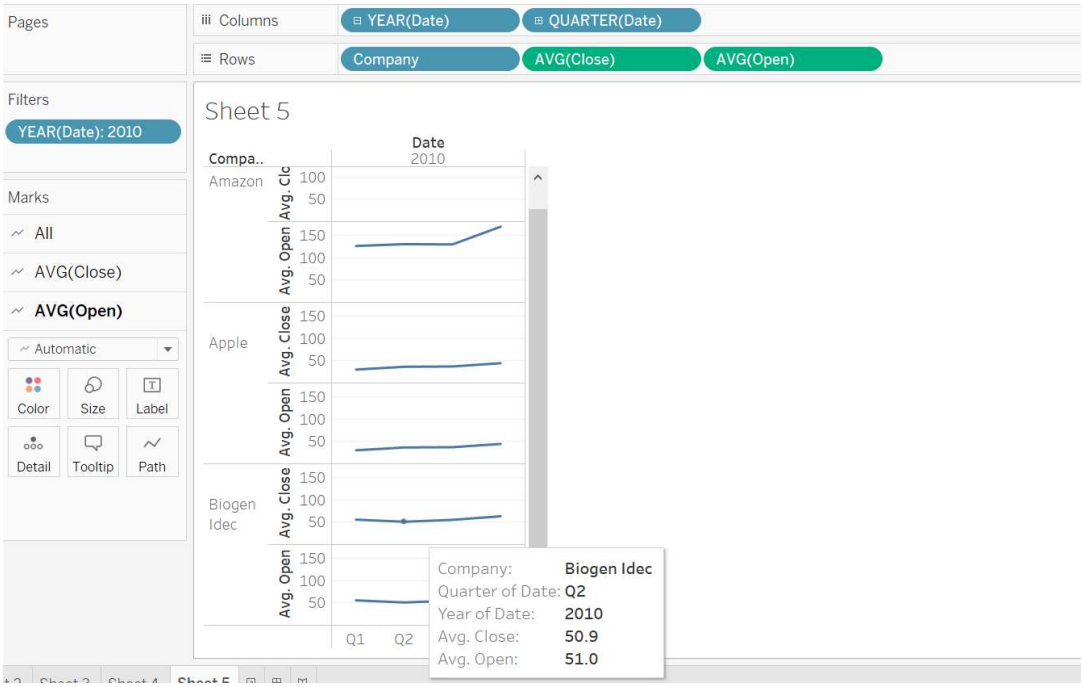
Change the Compute using to Table(down)



Machines 19.03% is the correct answer.

17. Connect to the "tds_sample_data_all" data source and use table Stocks 2010-2013. Find out in which quarter of 2010 Biogen stock Avg close price was lower than the Average open price?
    a. Q1
    b. Q2
    c. Q3
    d. Q4

Drop the Date to the filters and Select the year 2010.
Drop the Company to the Rows and Date to the Column (drill-down to show the Quarters)
Drop the Close price and Open price to the rows and change the aggregation to AVG

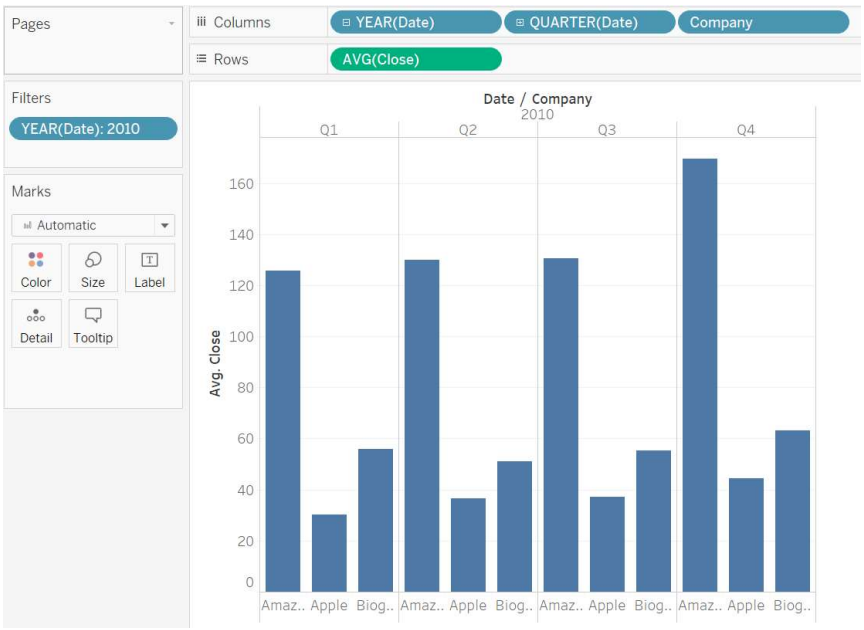


Only in Q2, Avg Close price is lower than the Avg Open price for Biogen stock.

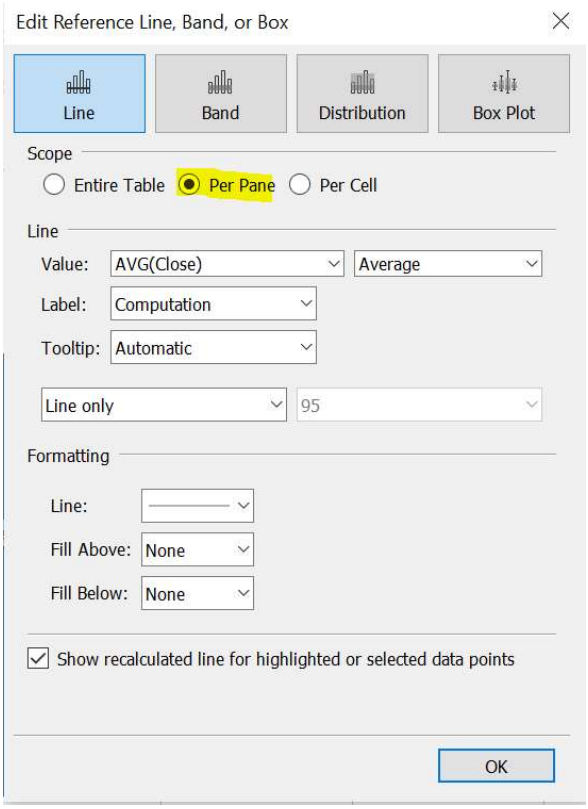
18. Which of these is not a geographic role?
    a. County
    b. Street
    c. City
    d. Postcode

19. Connect to the "tds_sample_data_all" data source and use Table Stocks 2010-2013. Using reference lines, compute the avg closing price of the combine Amazon, Apple stocks in Q1 of 2010?
    a. 78
    b. 70.6
    c. 72.5
    d. 71

    Drop the Date to the filters and select Year 2010
    Drop the Date to the Columns and drill-down it to Quarters. Drop the Company to the Columns. Here, Date will create the pane.
    Now, drop the Close price to the rows and change the aggregation to AVG. Your view will look like this:



We can compute the Average using Reference Lines.
Go to Analytics tab and drop the Reference line to the view, select Per Pane

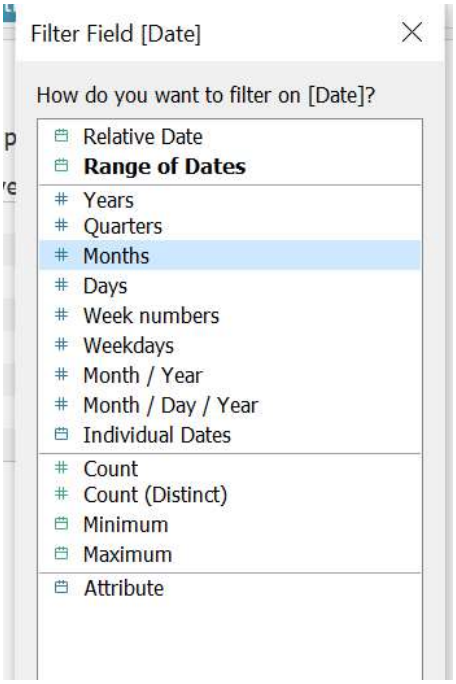


For Q1, average is showing as 70.6
But we need only for Amazon and Apple stock, select these two stocks only, and the tableau will update the Average. The average for these stocks in Q1 of 2010 -> 78.0

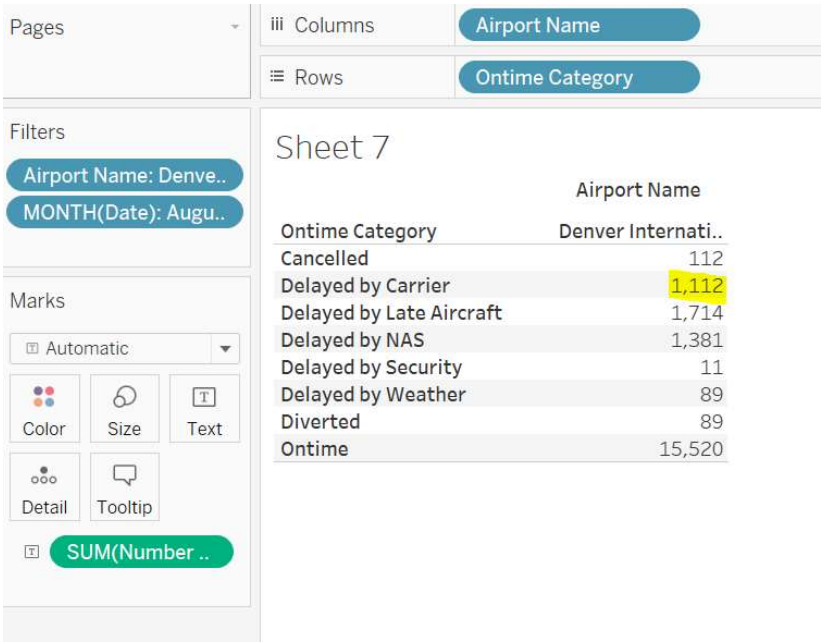
20. What is the default filter format when you add a filter from discrete measure?
    a. Range of Values
    b. Multiple Values list
    c. Single Value slider
    d. Single Value list

21. Connect to the "tds_sample_data_all" data source and use table "Flights", and find out how many flights were delayed by carrier in the month of August from Denver International Airport?
    a. 1122
    b. 112
    c. 1714
    d. None of the above

    Drop the Airport Name to the Columns and Ontime Category to the Rows.
    Drop the Number of flights to the Text.
    Use Airport Name in the filter and select only Denver International Airport
    Also, use Date in the filter and select the month August.



Your final view will look like this:

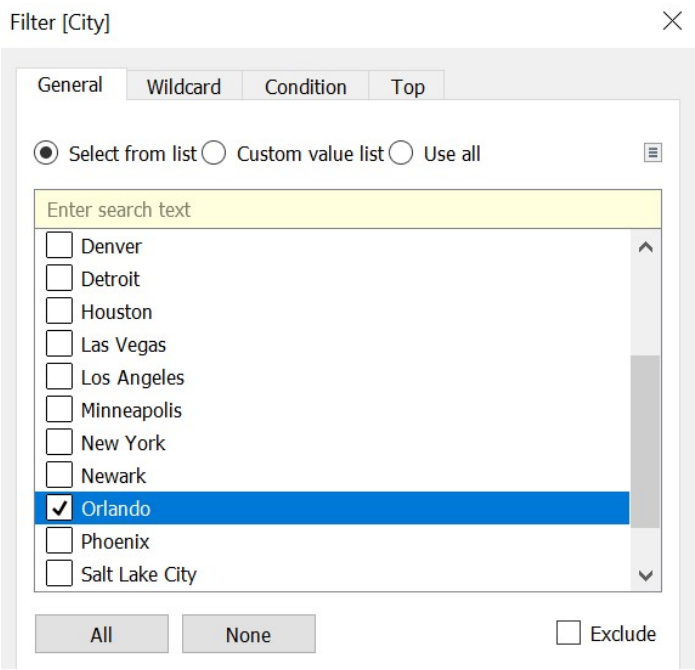


1,112 flights were delayed by carrier in the month of August from Denver International Airport.

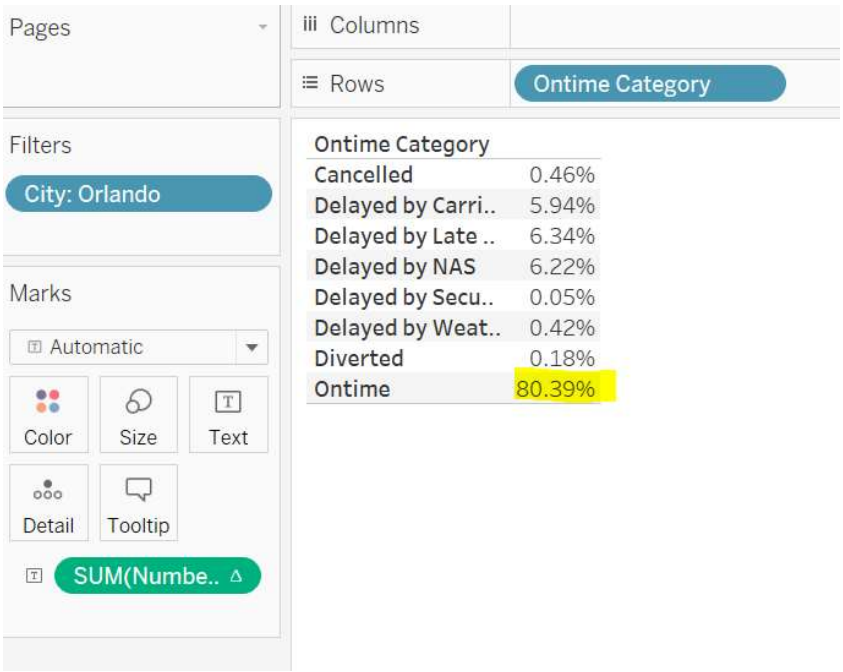
22. Connect to the "tds_sample_data_all" data source and use table "Flights", and find out the percentage of Ontime flights in Orlando city? Consider only Orlando city.
    a. 77.98%
    b. 80.25%

c. 72.43%
d. 80.39%

Drop the City to the filter and select only Orlando.



Drop the Ontime Category to the rows and Number of flights to the Text.
Apply Quick Table Calculation on Number of flights and select the Percent of Total.
Your view will look like this:

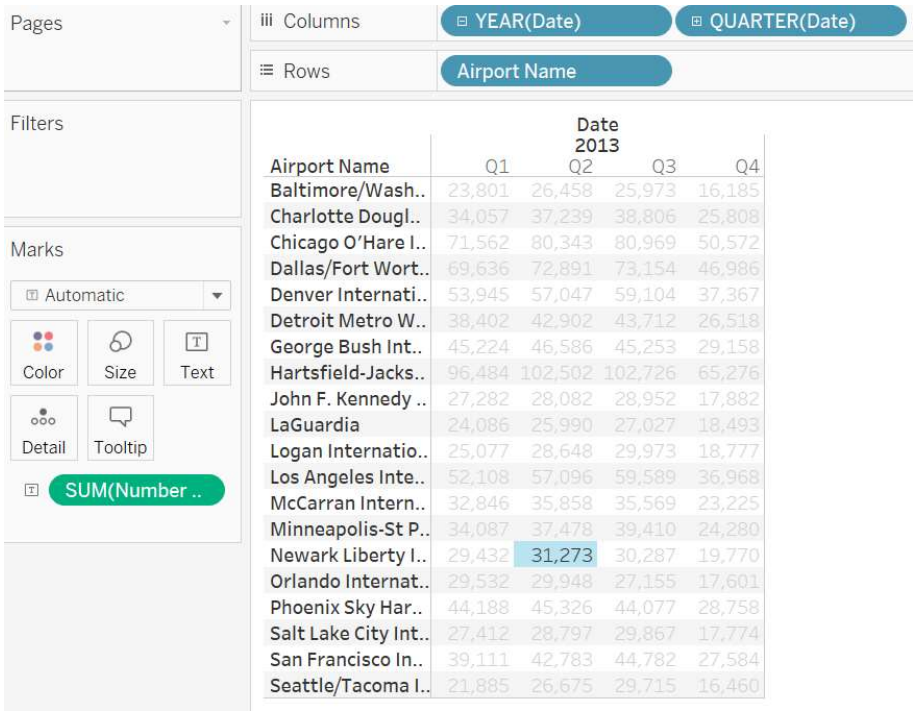


23. Which of the following fields will not be aggregated when you add it into the view?
    a. Calculated Field Sum([Sales])
    b. A continuous measure [Profit]
    c. Calculated field [Profit] * 10
    d. None of the above

    Sum(Sales) is already aggregated.

24. Connect to the "tds_sample_data_all" data source and use table "Flights", and find out in which quarter maximum flights were operated from Newark Liberty International Airport?
    a. Q1
    b. Q2
    c. Q3
    d. Q4

    Drop the Date to the columns and expand it to Quarters.
    Drop the Airport Name to the rows and Number of flights to the Text.



Airport Name	Date 2013 Q1	Q2	Q3	Q4
Baltimore/Wash..	23,801	26,458	25,973	16,185
Charlotte Dougl..	34,057	37,239	38,806	25,808
Chicago O'Hare I..	71,562	80,343	80,969	50,572
Dallas/Fort Wort..	69,636	72,891	73,154	46,986
Denver Internati..	53,945	57,047	59,104	37,367
Detroit Metro W..	38,402	42,902	43,712	26,518
George Bush Int..	45,224	46,586	45,253	29,158
Hartsfield-Jacks..	96,484	102,502	102,726	65,276
John F. Kennedy ..	27,282	28,082	28,952	17,882
LaGuardia	24,086	25,990	27,027	18,493
Logan Internatio..	25,077	28,648	29,973	18,777
Los Angeles Inte..	52,108	57,096	59,589	36,968
McCarran Intern..	32,846	35,858	35,569	23,225
Minneapolis-St P..	34,087	37,478	39,410	24,280
Newark Liberty I..	29,432	31,273	30,287	19,770
Orlando Internat..	29,532	29,948	27,155	17,601
Phoenix Sky Har..	44,188	45,326	44,077	28,758
Salt Lake City Int..	27,412	28,797	29,867	17,774
San Francisco In..	39,111	42,783	44,782	27,584
Seattle/Tacoma I..	21,885	26,675	29,715	16,460

    Among all 4 quarters, the maximum flights were operated from Newark Liberty International Airport in quarter 2.

25. Which of the following navigation styles are available in Story? (Select all that apply)
    a. Arrows Only
    b. Caption boxes

c. Numbers
d. Alphabets

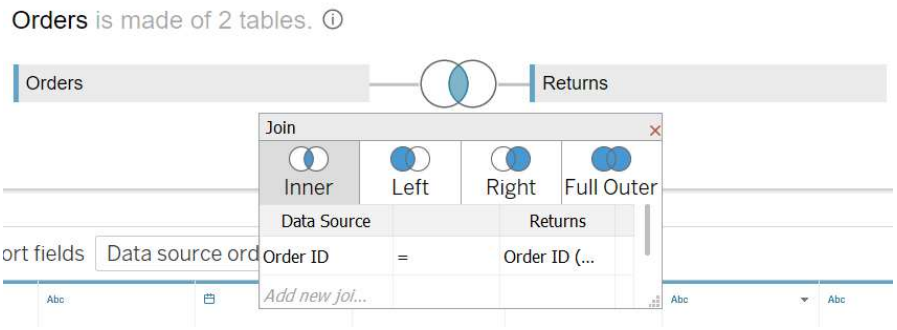
26. Which of the following are reasons to build a dashboard? (Select all that apply)
    a. Explore relationships in data.
    b. Display multiple worksheets at once.
    c. Reduce the size of the workbook.
    d. Views can interact with one another.

27. If you have Date field (year and quarter) in columns shelf and total profit in rows shelf. You apply the percent difference table calculation. What is the very first quarter value you will get?
    a. Zero (0)
    b. 1
    c. Null
    d. Same as the Q2 value

28. You are using a relative date filter in your visualization, and it is set as Last 3 months data. Which 3 months data Tableau will show?
    a. Last 3 months from the date you created the visualization
    b. Last 3 months relative to the anchor date
    c. Last 3 month from the day you open the workbook
    d. Last 3 months from the day you last updated the view

29. Connect to the "Sample - Superstore" data source and find out in which region and category most items were returned?
    a. West, Office Supplies
    b. East, Office Supplies
    c. South, Furniture
    d. East, Technology

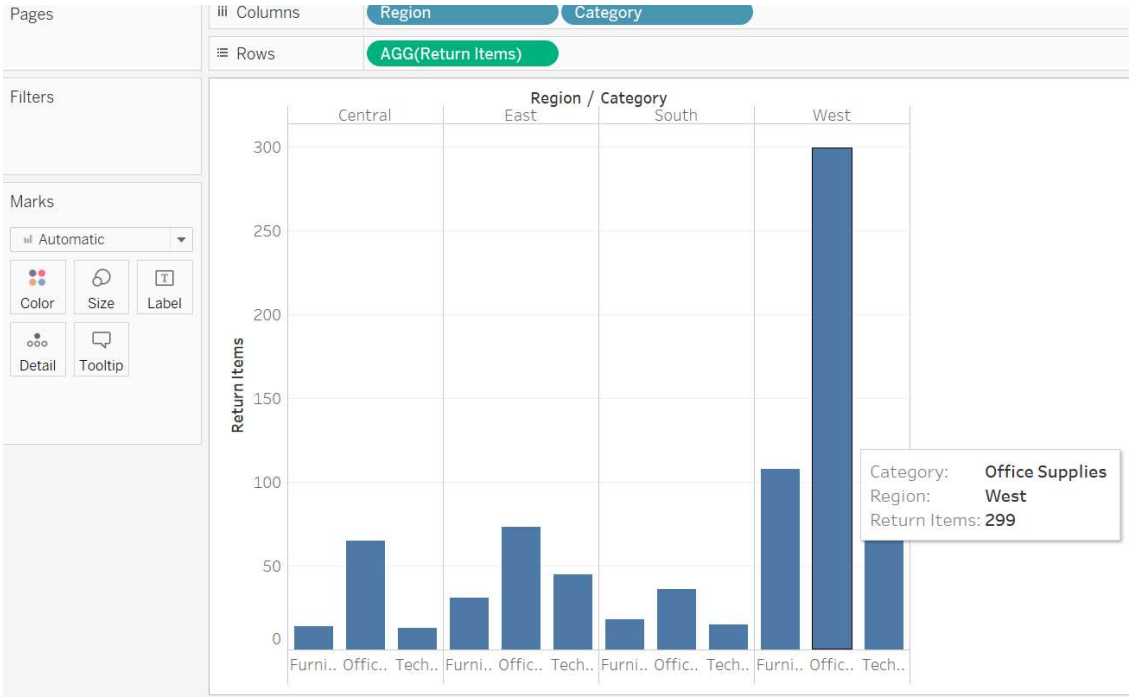
    Create an inner join between Orders and Returns table



Drop Region and Category to the Columns.

Drop Returned field to the Rows and aggregate it based on Count.
Create the Calculated field:

Drop the Return Items field to the rows.



In West region and Office Supplies category most items were returned.

30. How to convert the string into geographic role "Country"?
    a. Right click the string in dimension pane and select Transform and click Geographic Role and choose Country
    b. Right click the string in dimension pane and select Geographic Role and choose Country
    c. Both of the above
    d. None of the above