Data Analyst Free Practice Exam

This free practice exam has questions in the same format and covering the same topics as the real Data Analyst exam, but it is shorter and does not include the lab portion. For more details on the Data Analyst exam, see https://www.tableau.com/learn/certification/certified-data-analyst

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Question 1

[2.6.1. Sets]

To show top 10 products by Sales and bottom 10 in the same view you need to:

a. Duplicate Top 10 by Sales set and change its settings to Bottom 10 and rename it.
b. Combine Top 10 by Sales set and Top Bottom by Sales set with shared members in both sets.
c. Place combined set on filters shelf.
d. Click on Product Name dimension and create a Top 10 by Sales set.
e. Combine Top 10 by Sales set and Top Bottom by Sales set with all members in both sets.
f. Use a combined set to build a wildcard filter.

a. a, b, d, e
b. b, a, c, e
c. b, a, c, f
d. a, c, d, e

Explanation: See the steps shown here
https://help.tableau.com/current/pro/desktop/en-us/sortgroup_sets_create.htm#combine-sets

https://help.tableau.com/current/pro/desktop/en-us/sortgroup_sets_create.htm#create-a-dynamic-set

Comment [LH1]: It looks to me like this explanation shows how to make your Top N dynamic, not how to show both Top 10 and Botto 10.

Comment [A2]: Done

Question 2

[2.1.2. Write string functions]

You have a dataset where there is only one field for address. In some cases in includes also an e-mail address, and you need to identify the cases. Fill in the missing parts of the calculation.

Full Name	Address

Ann Doherty	58 Bay Rd. Camel Springs, IL 60122, ann.d235@gmail.com
Alice Laskowski	2180 Susan Street East Bloomfield, MI 48583
Peter Applebaum	1986 Birmingham Street Wimbledon, FL 33140
Kent Newman	946 Piper Street Epsom, MD 21921, kentnewman@swr-ltd.com

_____A_____ (_____B_____, "@")

A. Choose from: STARTSWITH / FIND / CONTAINS / REPLACE
B. Choose from: [Full Name] / [Address]

a. **CONTAINS / [Address]**
b. REPLACE/ [Full Name]
c. FIND/ [Full Name]
d. STARTSWITH / [Address]

Explanation: See the steps shown here

https://help.tableau.com/v2021.1/pro/desktop/en-us/functions_functions_string.htm

Question 3

[1.2.1. Assess data quality (completeness, consistency, accuracy) / 1.2.5. Prepare data by using Data Interpreter, pivot, and split]

To use a single measure to compare values over time:

Comment [A3]: Done. English is not my first language so I'm just using your suggestion to be sure its ok.

POSITION	05/2019	06/2019	07/2019	08/2019	09/2019
1.1 SEO	7 283 321	7 228 349	7 560 543	7 399 761	7 579 656
1.2 PPC	340 740	164 724	329 393	343 808	350 749
1.3 Other	4 501 950	4 423 059	5 405 288	5 114 734	5 385 295
1.4 Intercompany	264 489	250 967	277 906	565 973	419 913

a. Merge columns from 05/2019 to 09/2019 and change the data type to Date.
b. **Pivot columns from 05/2019 to 09/2019, rename Pivot Field Name to Date and change its data type to Date.**
c. Use a wildcard pivot in Tableau Desktop to rearrange data.
d. Use a custom split with "/" as separator.

Explanation: See the steps shown here

https://help.tableau.com/current/pro/desktop/en-us/pivot.htm

Question 4

[2.7.4. Create choropleth maps (filled maps)]

To create a map of Sales in United States you need to drop:

a. State pill on Color shelf, Sales on Columns and change Mark Type to Map
b. State pill on Tooltip shelf, Sales on Color shelf and geographic field Country/ Region in the middle of working space
c. **State in the middle of working space and Sales on Color**
d. Latitude and Longitude on Detail, Sales on Color and State on Tooltip shelf.

Comment [LH4]: Can you expalin why this option is wrong?

Comment [A5]: No. I'm changing the line.

Comment [LH6]: Can you explain why this option is wrong?

Comment [A7]: No. I'm changing the line.

Explanation: See the steps shown here

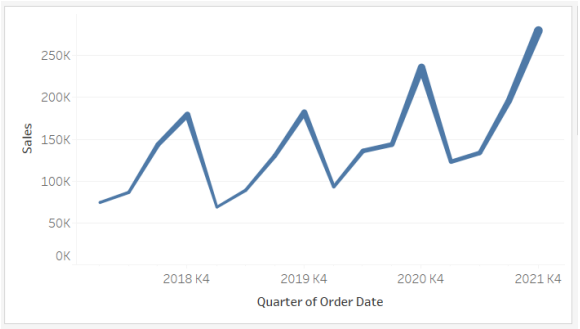
https://help.tableau.com/current/pro/desktop/en-us/maps_howto_simple.htm

Question 5

[2.2.4. Difference and percent of difference]

Which calculation you would use to calculate an increase in Sales from one quarter to then next in the case shown in the view:

Comment [A8]: Done



a. **ZN(SUM([Sales])) - LOOKUP(ZN(SUM([Sales])), -1)**
b. (ZN(SUM([Sales])) - LOOKUP(ZN(SUM([Sales])), -1)) / ABS(LOOKUP(ZN(SUM([Sales])), -1))
c. ZN(SUM([Sales])) - LOOKUP((SUM([Sales])), 0)
d. (ZN(SUM([Sales])) - LOOKUP(ZN(SUM([Profit])), -1)) / ABS(LOOKUP(ZN(SUM([Profit])), -1))

Explanation: See the steps shown here

https://help.tableau.com/current/pro/desktop/en-us/functions_functions_tablecalculation.htm

Question 6

[1.1.9. Replace the connected data source with another data source for an existing chart or sheet]

To replace a field with another in all calculations in a workbook you need to:

a. Replace references by choosing the option form "Data" in upper text menu

b. Remove the field on Data Source screen and replace it with another one
c. Replace it manually in each calculation
d. Replace references by clicking on the field in Data section of the screen and choosing the "Replace References…" option.

Comment [LH9]: What option? I think you me the „Replace References" option

Comment [A10]: I do

Explanation: See the steps shown here

https://help.tableau.com/current/pro/desktop/en-us/howto_connect.htm#replace-field-references

Question 7

[1.2.5. Prepare data by using Data Interpreter, pivot, and split]

To perform a split without writing a calculation you need to:

a. Go to Data Source screen, right click on fields name to find the option
b. Drag and draw the "Split" from Analytics Pane
c. Use a quick table calculation
d. Go to Analysis section of upper text menu to find the option

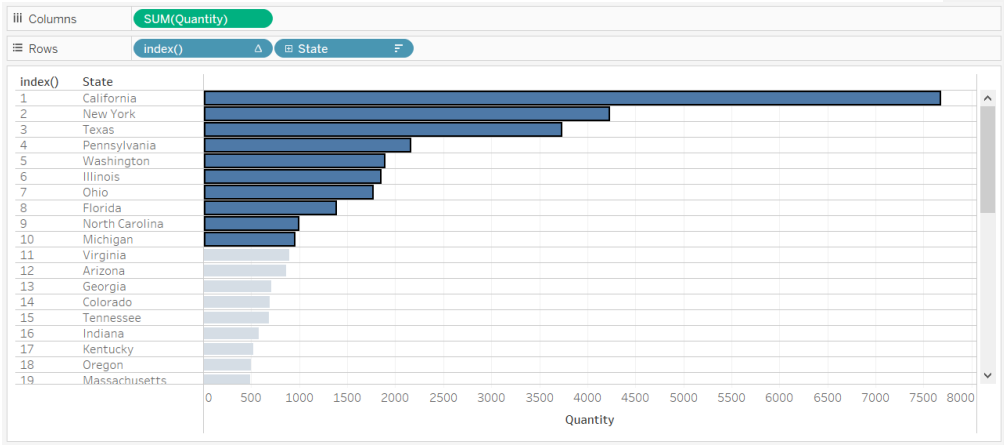
Explanation: See the steps shown here

https://help.tableau.com/current/pro/desktop/en-us/split.htm

Question 8

[2.6.1. Sets]

To create a set containing top 10 States by profit you need in this case to:



a. Right click selected top 10 States and choose option Create Set…
b. Start from creating a parameter
c. Click a paperclip on the upper toolbar
d. Right click on State measure in the data pane to be able to create the set.

Explanation: See the steps shown here

https://help.tableau.com/current/pro/desktop/en-us/sortgroup_sets_create.htm

Tip: The view does not contain the profit measure.

Question 9

[1.2.4.Use multiple data sources (establish relationships, create joins, union tables, blend data)]

You have three tables. Two of them show clients in different regions, third one contains the information on frequent clients discounts. How would you prepare the data for analysis:

ID	Name	Date	Region	Value
DO-136452	Doug O'Kornie	13.06.2012	North	113,58
DO-136452	Doug O'Kornie	14.12.2013	North	374,058
ME-173202	Maria Eczewska	19.08.2012	North	143,88
DL-133302	Denise Leinenbach	18.04.2014	North	459,918
DL-133302	Denise Leinenbach	21.08.2013	North	78,354
DL-133302	Denise Leinenbach	29.04.2013	North	620,055

ID	Name	Date	Value	Area
GG-146502	Greg Gorski	29.11.2015	1 973,30	South-West
GG-146502	Greg Gorski	26.07.2013	169,74	South-West
HG-150252	Gunter Schmidt	11.11.2015	349,44	South-West
HG-150252	Gunter Schmidt	26.05.2013	167,58	South-West
HG-150252	Gunter Schmidt	03.04.2016	97,32	South-West
JW-160752	Julia East	11.11.2015	701,622	South-West

ID	Discount
DO-136452	2,00%
KD-162702	1,50%
ME-173202	0,50%
GG-146502	2%
HG-150252	1,50%
JW-160752	1,50%

a. Join all the tables using ID as join field
b. Use data blending to get the right level of aggregation and connect table 1 and 3, then union with table 2
c. **Union first two tables, merge unmatched fields and then join the third table with ID as join field**
d. Union all tables then merge mismatched fields.

Explanation: See the steps shown here

https://help.tableau.com/current/pro/desktop/en-us/joining_tables.htm

https://help.tableau.com/current/pro/desktop/en-us/union.htm

Question 10

[1.1.9. Replace the connected data source with another data source for an existing chart or sheet]

You want to replace a data source used in your report. To do that you:

a. Add a new Data Source, from Data menu in upper text stripe choose Replace References option and close the current Data Source
b. Add a new Data Source, from Data menu in upper text stripe choose a current Data Source and then Replace Data Source option
c. Go to Data Source screen, remove a first data source and add another one
d. In the Data Source screen choose Edit Connection option and then click Replace Data Source from the menu

Explanation: See the steps shown here

https://help.tableau.com/current/pro/desktop/en-us/connect_basic_replace.htm

Question 11

[1.1.9. Replace the connected data source with another data source for an existing chart or sheet]

To replace nulls with zero you can:

a. Use either ZN([Field]) or IFNULL([Field],0) calculations
b. You cannot do that as nulls indicate that there is no data in a database
c. Use ISNULL([Field]) or ZN([Field]) calculation

Explanation: See the steps shown here

https://help.tableau.com/v2019.1/pro/desktop/en-us/functions_functions_logical.htm

Question 12

[2.3.6. First-last]

What will happen in the given table if you change Compute by option to “Table down”?

			Order Date			
	Region	Ship Mode	2018	2019	2020	2021
Quantity	Central	First Class	227	187	261	481
		Standard Class	1 157	1 096	1 509	1 675
	East	First Class	277	450	476	602
		Standard Class	1 176	1 372	1 714	1 952
	South	First Class	188	141	207	294
		Standard Class	790	968	919	1 084
	West	First Class	347	322	513	720
		Standard Class	1 597	1 495	1 862	2 431
first()	Central	First Class	0	-1	-2	-3
		Standard Class	0	-1	-2	-3
	East	First Class	0	-1	-2	-3
		Standard Class	0	-1	-2	-3
	South	First Class	0	-1	-2	-3
		Standard Class	0	-1	-2	-3
	West	First Class	0	-1	-2	-3
		Standard Class	0	-1	-2	-3

a. Zeros will appear in each First Class row
b. Zeros will appear in last column
c. Zeros will appear for all cells in Central Region
d. Zeros will appear for Central Region and First Class row

Explanation: See the steps shown here

https://help.tableau.com/v2019.1/pro/desktop/en-us/functions_functions_tablecalculation.htm

https://help.tableau.com/v2019.1/pro/desktop/en-eate a show/hide container ous/calculations_tablecalculations_definebasic_runningtotal.htm

Question 13

[3.2. Create dashboards and stories / 3.2.2. Add objects]

To create a Show/Hide Container with filters you:

a. Place all filters in a floating container and hide the container
b. Place all filters in a floating container and edit a Show/Hide Button
c. Create a Show/Hide Button and then link it to the chosen container with all filters in it
d. Create a new floating container, place all filters in it and edit a Navigate button

Explanation: See the steps shown here

https://help.tableau.com/current/pro/desktop/en-us/dashboards_create.htm#show-and-hide-objects-by-clicking-a-button

Question 14

[2.1.7. Write FIXED LOD calculations]

Which LOD calculation syntax is correct if you plan to calculate entire profit of your store since it has been opened:

a. {TOTAL(MAX([Date])): SUM(PROFIT)}
b. {FIXED: SUM([Profit])}
c. {[Profit]}
d. {EXCLUDE [Date]: SUM([Profit])}

Explanation: See the steps shown here

https://help.tableau.com/current/pro/desktop/en-us/calculations_calculatedfields_lod.htm#tablescoped

Question 15

[2.1.1. Write date calculations (DATEPARSE, DATENAME…)]

Which calculation would you use to get a number of a month in a year

a) DATEPART('month', [Date])
b) DATETRUNC('month', [Date])
c) DATENAME('month', [Date])
d) DATEPARSE('month', [Date])

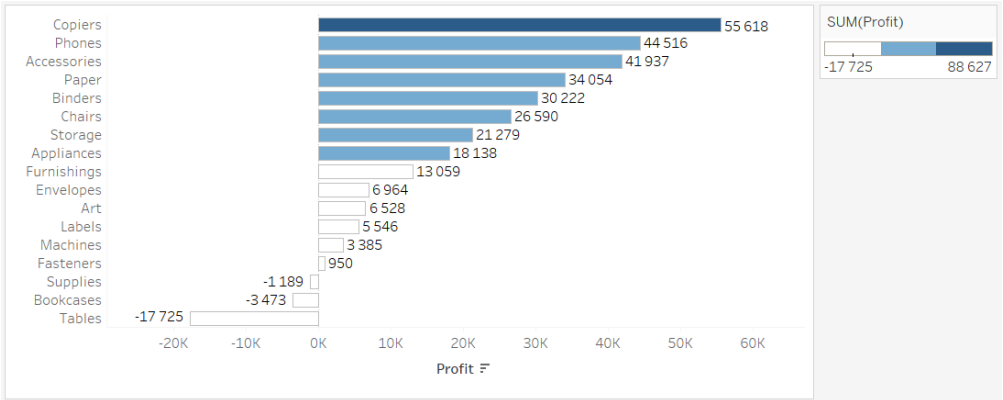
Explanation: See the steps shown here

https://help.tableau.com/current/pro/desktop/en-us/functions_functions_date.htm

Question 16

[3.4.1. Apply color, font, shapes, styling]

What kind of color scale is in the view?



a. Discrete
b. Continuous
c. Discrete based on 3-element category
d. Continuous with 3 steps

Explanation: See the steps shown here

https://help.tableau.com/current/pro/desktop/en-us/viewparts_marks_markproperties_color.htm

Question 17

[2.4.3. Add filters to context]

A measure in your view contains a LOD FIXED calculation. You need to create a dimension filter that would filter out all data to regional level. To do that you need to:

a. Create a dimension filter with [Region], then click on it and choose Add to Context option
b. Create a dimension filter with [Region] and apply it to all sheets using the data source
c. Exclude [Order date] from the FIXED calculation
d. Create the [Region] filter and apply it also to technical filtering view

Explanation: See the steps shown here

https://help.tableau.com/current/pro/desktop/en-us/filtering_context.htm

https://help.tableau.com/current/pro/desktop/en-us/order_of_operations.htm

Comment [LH11]: Is the LOD calculation relevant to the question? I'm not sure how it's related to the filter.

Comment [A12]: With changed answer that should be more clear. It's about the order of filte

Comment [LH13]: The explanation talks abou adding context filters, but the correct answer relates to applying to all sheets.

Comment [A14]: More than true. Corrected

Question 18

[2.1.6. Write aggregate functions]

Which kind of calculation would be suitable to count the number of States in the view:

a. COUNT([State])
b. RANK([State])
c. COUNTD([State])
d. INDEX([State])

City	State	Sales
Aachen	North Rhine-Westphalia	3,803
Aalen	Baden-Württemberg	980
Arnsberg	North Rhine-Westphalia	424
Aschaffenburg	Bavaria	3,620
Augsburg	Bavaria	8,385
Bad Waldsee	Baden-Württemberg	238
Baden-Baden	Baden-Württemberg	193
Bamberg	Bavaria	315
Bayreuth	Bavaria	607
Bergheim	North Rhine-Westphalia	529
Bergisch Gladbach	North Rhine-Westphalia	477
Berlin	Berlin	61,918
Bielefeld	North Rhine-Westphalia	3,449
Bochum	North Rhine-Westphalia	15,714
Bonn	North Rhine-Westphalia	9,236

Explanation: See the steps shown here

https://help.tableau.com/v2019.4/pro/desktop/en-us/calculations_calculatedfields_aggregate_create.htm

Question 19

[2.6.1. Sets]

You are able to create a combined set when (choose the most appropriate answer):

a. **When sets there are to be combined are based on the same dimension**
b. When sets there are to be combined are based on the same measure
c. When sets there are to be combined are share a common condition
d. When sets there are to be combined exist in the same data source

Explanation: See the steps shown here

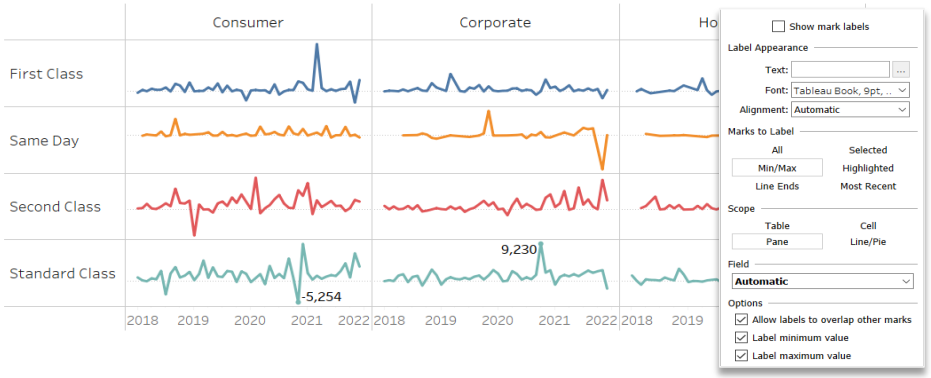
https://help.tableau.com/v2020.1/pro/desktop/en-us/sortgroup_sets_create.htm#combine-sets

Question 20

[3.4. Format dashboards/ 3.4.1. Apply color, font, shapes, styling]

Which option would you choose to set labels as shown in the picture:

a. **Min/Max and Table**
b. Min/Max and Pane
c. Min/Max and Line/Pane
d. Min/Max and Cell



Explanation: See the steps shown here

https://help.tableau.com/v2020.1/pro/desktop/en-us/annotations_marklabels_showhideworksheet.htm

Question 21

[1.2.5. Prepare data by using Data Interpreter, pivot, and split]

You use a table from an Excel file. What will happen to the table after using Data Interpreter?

a. The headers will disappear and the number of rows will increase
b. The headers will be as in 2nd row and the number of rows will increase
c. The headers will disappear and the number of rows will decline
d. The headers will be as in 2nd row and the number of rows will decline

Abc F1	Abc F2	Abc F3	Abc F4	Abc F5
Notowania pogodowe	*null*	*null*	*null*	*null*
Miasto	Miara	Jednostka	Wartość	Data
London	Temperatura, MAX	st. C	13	16.02.2019
London	Temperatura, MIN	st. C	6	16.02.2019
Londen	Opady	mm	2	16.02.2019
London	Siła wiatru	m/h	7	16.02.2019
London	Temperatura, MAX	st. C	14	17.02.2019
London	Temperatura, MIN	st. C	9	17.02.2019
Lond0n	Opady	mm	0	17.02.2019
Londen	Siła wiatru	m/h	12	17.02.2019
London	Temperatura, MAX	st. C	11	18.02.2019
london	Temperatura, MIN	st. C	4	18.02.2019
nodonL	Opady	mm	12	18.02.2019

Explanation: See the steps shown here

https://help.tableau.com/v2020.1/pro/desktop/en-us/data_interpreter.htm

Question 22

[3.3.3. Swap sheets by using parameters or sheet selector]

The steps that will allow you to swap sheets on dashboard are:

a) Create a parameter

b) Create a navigate button
c) Create a sheet with buttons
d) Create a filter on calculated field containing a parameter
e) Set a parameter action

a. a), b), c), d)
b. a), b), c), d)
c. b), c), d), e)
d. a), c), d), e)

Explanation: See the steps shown here (HAVE FOUND NO GOOD EXPLANATION IN TABLEAU HELP)

https://www.tableau.com/about/blog/2015/7/lrtt-parameters-alter-your-viz-40767?_ga=2.197414312.684122406.1638104830-1312171549.1564256819&_fsi=PKQ5uOGQ

Question 23

[2.5. Create parameters to enable interactivity / 2.5.1. In calculations]

The steps you should take to allow user to change a measure in the view are

a) Create a parameter
b) Create a set
c) Create a filter on calculated field containing a parameter
d) Create a calculated field containing parameter in the view
e) Show parameter

a. a), b), c)
b. a), c), d)
c. a), d), e)
d. a), c), e)

Explanation: See the steps shown here

https://help.tableau.com/current/pro/desktop/en-us/parameters_swap.htm

Question 24

[3.1.1. Create basic charts from scratch (bar, line, pie, highlight table, scatter plot, histogram, tree map, bubbles, data tables, Gantt, box plots, area, dual axis, combo)]

You want to create a pie chart. What you need to do is:

a) Place a measure in Angle Shelf
b) Place a dimension in Path Shelf
c) Place a measure in Color Shelf
d) Place a dimension in Color Shelf
e) Change Mark Type to Pie chart

a. **a), d), e)**
b. a), b), c)
c. b), d), e)
d. c), d), e)

Explanation: See the steps shown here

https://help.tableau.com/v2020.1/pro/desktop/en-us/buildexamples_pie.htm

Question 25

[3.1.1. Create basic charts from scratch (bar, line, pie, highlight table, scatter plot, histogram, tree map, bubbles, data tables, Gantt, box plots, area, dual axis, combo)]

The right Mark Type to use when creating a highlight table would be:

a. Density
b. **Square**
c. Polygon
d. Area

Explanation: See the steps shown here

https://help.tableau.com/v2020.1/pro/desktop/en-us/buildexamples_highlight.htm

Question 26

[3.1.1. Create basic charts from scratch (bar, line, pie, highlight table, scatter plot, histogram, tree map, bubbles, data tables, Gantt, box plots, area, dual axis, combo)]

To create a Gantt Chart with list and duration of tasks in your project you need to:

a) Change Mark Type to Gantt Bar
b) Place [Task Name] dimension in Rows Shelf
c) Place [Start Date] in Size Shelf
d) Place [Duration] measure in Size Shelf
e) Place [Duration] measure Column Shelf
f) Place [Start Date] in Column Shelf

a. a), b), c), d)
b. a), b), c), e)
c. **a), b), d), f)**
d. a), b), e), f)

Explanation: See the steps shown here

https://help.tableau.com/v2020.1/pro/desktop/en-us/buildexamples_gantt.htm

Question 27

[2.8.5. Trend lines]

To add a trend line to the view you can (choose right answers):

a) Click on a axis and choose Add Trend Line option
b) Go to Analytics Pane to drag and drop to the view a trend line
c) Click on the view and choose from menu Trend Lines/Show Trend Lines
d) From Upper text menu choose Trend Lines/Show Trend Lines

a. All of above
b. None of above
c. a), b), c)
d. **a), c), d)**

Explanation: See the steps shown here

https://help.tableau.com/v2020.1/pro/desktop/en-us/trendlines_add.htm

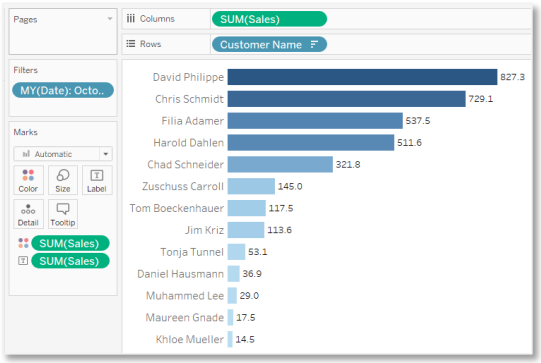
Question 28

[2.6.1. Sets]

You want to use a set to dynamically filter top 5 customers by sales in each month. How can you create such a set?

Comment [LH15]: Clients or Customers? I'm confused about what is supposed to be dynamic here... do you just want to show the top 5 customers?

Comment [A16]: Definitely customers! Word customer in Polish in "klient" so I often make the mistake. Sorry.



a. Choose Customers in the view, right click and choose Create Set option
b. Choose Customers in the view and choose Create Set icon in the tooltip
c. **Click on [Customer Name] dimension in the Data Pane and choose Create Set**
d. None of the above

Explanation: See the steps shown here

https://help.tableau.com/current/pro/desktop/en-us/sortgroup_sets_create.htm#create-a-dynamic-set

Question 29

[2.1.4. Write number functions]

You want [Sales] measure in labels to be shown with one decimal place. What would be the best calculation to achieve the result?

a. **ROUND([Sales], 1)**
b. CEILING([Sales], 1)
c. INT(([Sales], 1)
d. FLOOR(([Sales], 1)

Explanation: See the steps shown here

https://help.tableau.com/v2020.1/pro/desktop/en-us/functions_functions_number.htm

Question 30

[4.1.4. Export content]

Which option you need to choose from toolbar to export a dashboard to a Power Point presentation?

a. Worksheet/ Export/ Image
b. **Dashboard/ Export Image**
c. File/ Export as Packaged Workbook
d. File/ Export As Version

Comment [LH17]: Are you selecting the Dashbaord option on the toolbar?

Comment [A18]: I do

Explanation: See the steps shown here

https://help.tableau.com/v2020.1/reader/desktop/en-us/reader_export.htm#exporting-a-view-as-an-image

Question 31

[1.2.4.Use multiple data sources (establish relationships, create joins, union tables, blend data)]

You want to join Table A and B, and then relate them to Table C to avoid duplicating rows with tables that have different aggregation level. What should you do?

Tab. A

Customer ID	Date	Sales
RP-198552	12.11.2011	551,61
RP-198552	22.03.2011	256,8
RP-198552	24.09.2012	16,74
RP-198552	14.12.2011	522,06
DJ-135102	21.01.2014	169,5
DJ-135102	24.04.2011	54,6
DJ-135102	25.12.2011	526,62
CP-123402	27.11.2011	591,3
FM-142152	08.02.2013	20,13
FM-142152	06.02.2014	132,9
IM-150552	27.11.2013	21,06

Tab. B

Segment	Customer ID
Small Business	DJ-135102
Corporate	CP-123402
Corporate	FM-142152
Small Business	RP-198552
Corporate	IM-150552

Tab. B

Segment	Sales Target
Small Business	2500
Corporate	3000
Personal	2000

a. **Drag tab. A to canvas, double click to open a physical layer, join the table with tab. B, close physical layer and drag Tab. C to canvas build a relation**
b. Drag tab. A to canvas and click on it to open menu to establish any type of connection – union, join or relation
c. Double click on canvas to open a logical layer. Drag there tab. A and tab. B. Close it to add relation with tab. C in physical layer.
d. Drag tab. A to canvas, double click to open a physical layer, relate the table with tab. B, close physical layer and drag Tab. C to canvas build a join

Explanation: See the steps shown here

https://help.tableau.com/current/online/en-us/datasource_datamodel.htm

Question 32

[3.1.1. Create basic charts from scratch (bar, line, pie, highlight table, scatter plot, histogram, tree map, bubbles, data tables, Gantt, box plots, area, dual axis, combo)]

To create a dual axis chat one has to:

a) Place two measures either in Rows Shelf or Columns Shelf
b) Place [Measure Names] in Filter Shelf
c) Click on second measure pill or second axis and choose Dual Axis option
d) Place at least one of the measures in Path Shelf
e) Sort measures in Measure Shelf

a. a), b)
b. **a), c)**
c. d), e)
d. all of the above

Explanation: See the steps shown here

https://help.tableau.com/v2019.4/pro/desktop/en-us/multiple_measures.htm#compare-two-measures-using-dual-axes

Question 33

[2.8.7. Forecast by using default settings]

To add forecast to the view you can:

a. Go to Upper text menu, choose Analysis/ Forecast/ Show Forecast
b. Go to Analytics Pane, drag Forecast and drop it to the canvas
c. Go to Analytics Pane and double click Forecast
d. **All of the above**

Explanation: See the steps shown here

https://help.tableau.com/current/pro/desktop/en-us/forecasting.htm

Question 34

[2.8.1. Totals and subtotals]

To show Totals as shown below you should:

a. From Menu Analysis choose Row Totals to Left option
b. **From Menu Analysis choose Show Row Grand Totals and Row Totals to Left options**
c. From Menu Analysis choose Show Row Grand Totals
d. From Menu Analysis choose Show All Subtotals

			Region			
Category	Sub-Category	Grand Total	Central	East	South	West
Furniture	Bookcases	114,880	24,157	43,819	10,899	36,004
	Chairs	328,449	85,231	96,261	45,176	101,781
	Furnishings	91,705	15,254	29,071	17,307	30,073
	Tables	206,966	39,155	39,140	43,916	84,755
Office Supplies	Appliances	107,532	23,582	34,188	19,525	30,236
	Art	27,119	5,765	7,486	4,656	9,212
	Binders	203,413	56,923	53,498	37,030	55,961
	Envelopes	16,476	4,637	4,376	3,346	4,118
	Fasteners	3,024	778	820	503	923
	Labels	12,486	2,451	2,603	2,353	5,079
	Paper	78,479	17,492	20,173	14,151	26,664
	Storage	223,844	45,930	71,613	35,768	70,533
	Supplies	46,674	9,467	10,760	8,319	18,127
Technology	Accessories	167,380	33,956	45,033	27,277	61,114
	Copiers	149,528	37,260	53,219	9,300	49,749
	Machines	189,239	26,797	66,106	53,891	42,444
	Phones	330,007	72,403	100,615	58,304	98,684

Explanation: See the steps shown here

https://help.tableau.com/v2020.1/pro/desktop/en-us/functions_functions_number.htm

Question 35

[2.3.6. First-last]

You need to use a table calculation in order to remove years with uncomplete data from the table. What calculation would you use and how would you set up the filter:

Comment [A19]: The question is to replace th question No 17. Same skill set, better set up.

State	2011	2012	2013	2014	2015	2016	2017	2018
Baden-Württemberg	1 310	4 529	6 843	14 974	12 105	5 928	1 290	
Bavaria	917	5 019	11 276	11 310	14 514	11 074	4 634	127
Hesse	86	480	5 264	5 921	11 340	5 161	3 065	
Mecklenburg-Vorpommern	770	423	2 035	3 675	873	3 560	981	
North Rhine-Westphalia	7 550	26 775	27 443	50 324	59 429	28 703	16 328	
Rhineland-Palatinate	469	650	6 721	6 530	4 988	4 547	1 646	

a. Calculation first()=0, set up to table across and choose False when placing it on filter shelf
b. **Calculation last()=0, set up to table across and choose False when placing it on filter shelf**
c. Calculation first()=0, set up to table down and choose False when placing it on filter shelf
d. Calculation last()=0, set up to table down and choose True when placing it on filter shelf

Explanation: See the steps shown here

https://help.tableau.com/v2019.1/pro/desktop/en-us/functions_functions_tablecalculation.htm

https://help.tableau.com/v2019.1/pro/desktop/en-eate a show/hide container ous/calculations_tablecalculations_definebasic_runningtotal.htm