

Solutions to Certified Data Analyst Lab

Contents

Instructions	1
Question 1	1
Question 2	2
Question 3	2
Question 4	3
Question 5	3
Question 6	5
Question 7	5
Question 8	6
Question 9	7
Question 10	8

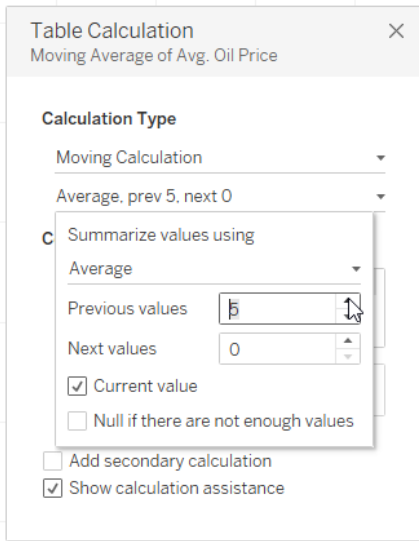
Instructions

Open the Lab 1 Tableau workbook and take the steps to answer the following questions. Then save the workbook and check your steps using the Exam 1 Lab Solutions document.

Question 1

[2.2.3. Running total]

Modify the Avg Oil Price worksheet to use a moving average of the current month and the five months prior.

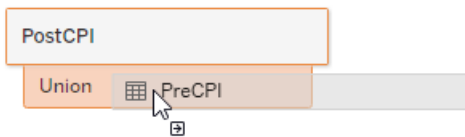


Question 2

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

On the data source page, create a union of the PostCPI and PreCPI tables.

PostCPI (Gold Oil CPI)



PostCPI (Gold Oil CPI)



Logical Table: PostCPI
 Unioned Tables: PostCPI, PreCPI
 Double-click this logical table to see its physical tables.

Question 3

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

Create a calculation that combines Month and Year into a date field. Set the date to be the first of the month for the specified date and year so that for example “May” and “2018” becomes May 1st, 2018.

YearMonth

```
MAKEDATE ([Year], int ([Month]), 1)
```

```
MAKEDATE(year, month, day)
```

The calculation is valid.

Question 4

[1.4.2.Rename columns]

Rename the CPI field to “Consumer Price Index”

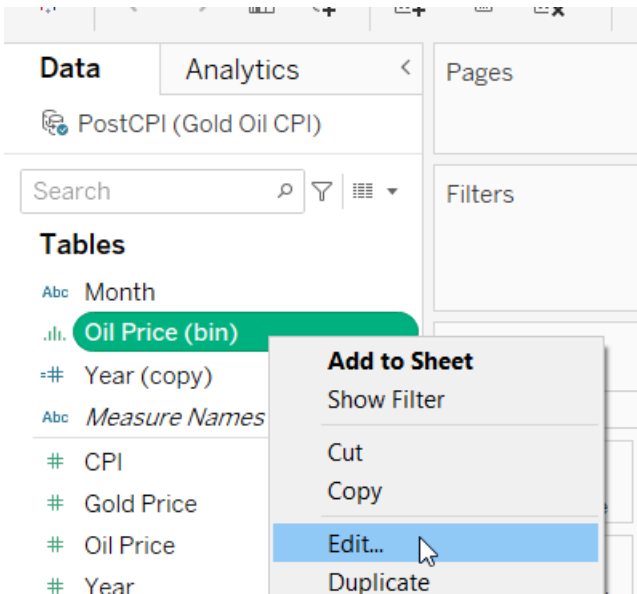
Right-click the field in the data pane and select “Rename”



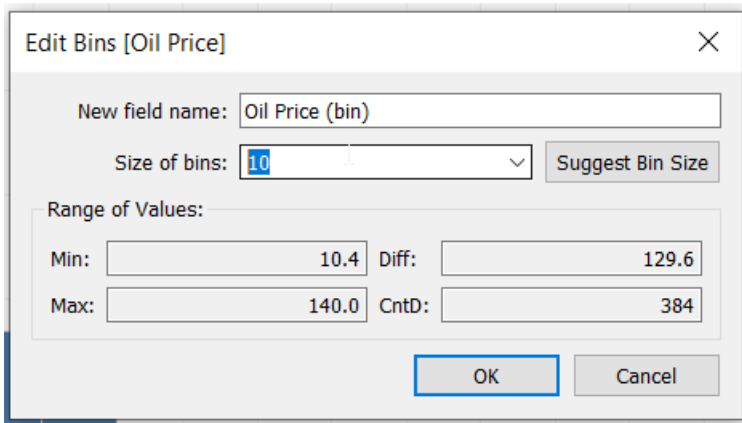
Question 5

[2.6. Structure the data – bins]

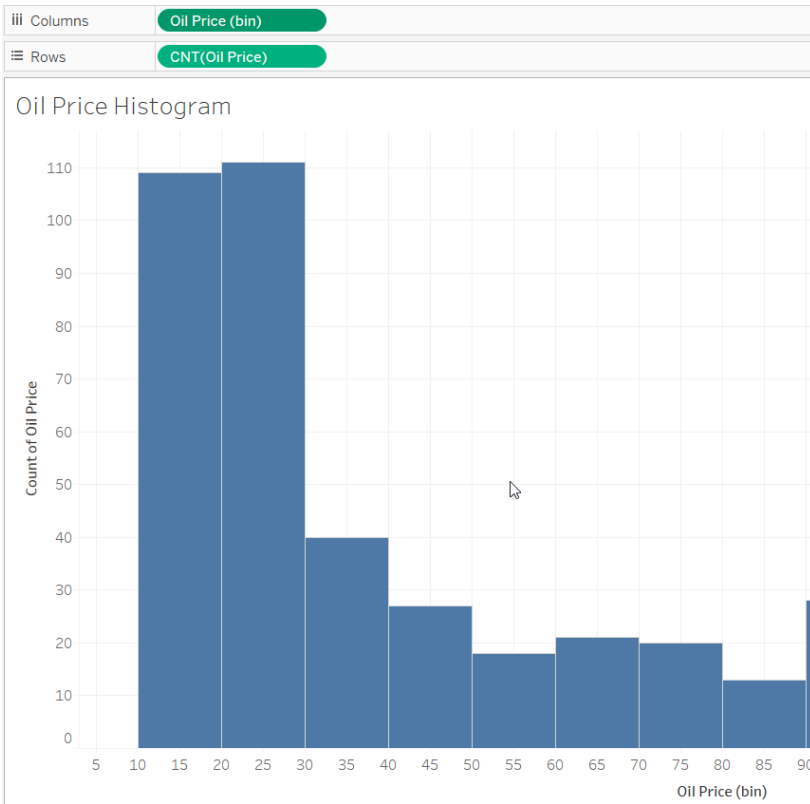
On the Oil Price Histogram worksheet, change the bin size to 10.



Change the size to 10 and click OK



Result:



Question 6

[2.4.2. Configure filter settings including Top N, Bottom N, include, exclude, wildcard, and conditional]

Update the “Gold Price Table” worksheet so that only the top 5 values with the highest average gold price are shown.

Create Set ✕

Name:

General Condition **Top**

None

By field:

Top by

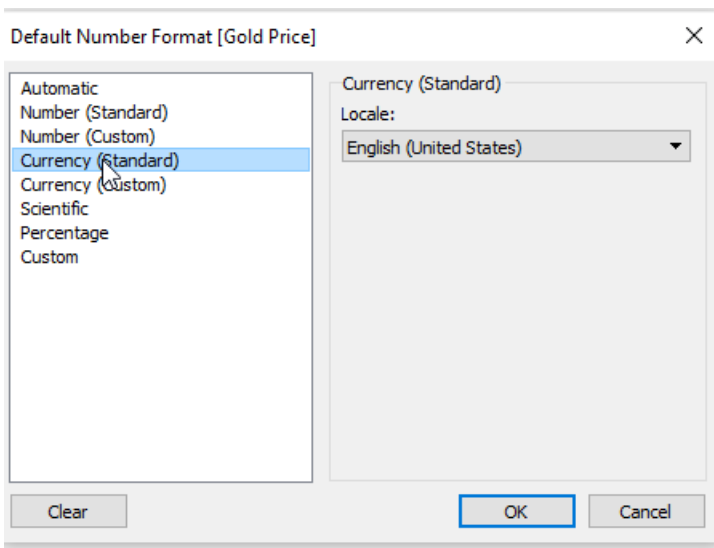
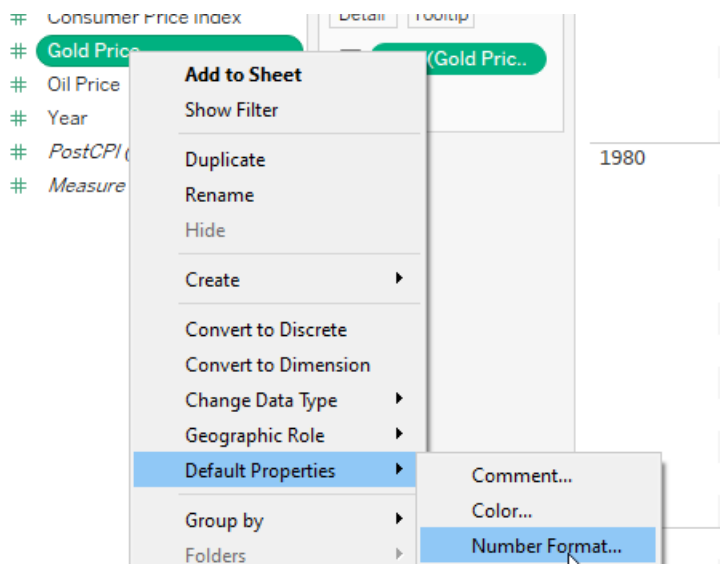
Gold Price

By formula:

Question 7

[1.4.1. Change default field properties (types, sorting, etc.)]

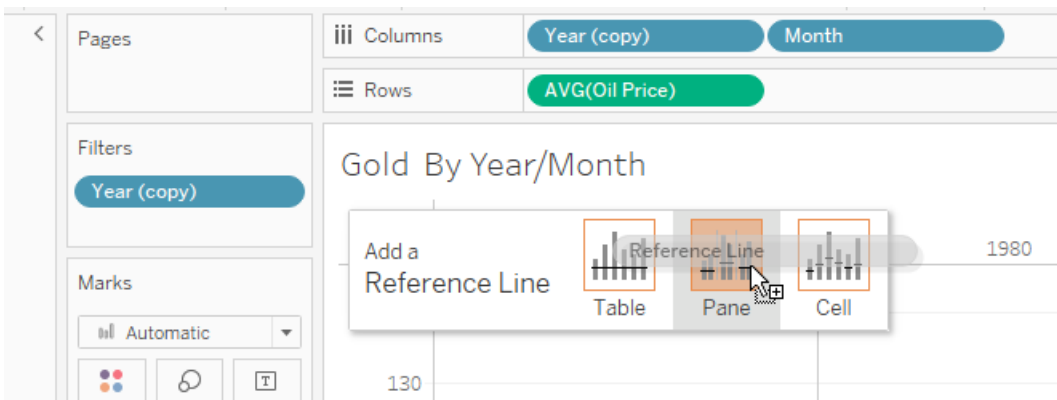
Change the default format for Gold Price to so that, for example, a value of 100 will have a default formatting of \$100.00.



Question 8

[2.8.4. Average lines]

On the “Gold by Year/Month” worksheet, add a reference line showing the lowest value for each year



Edit Reference Line, Band, or Box [X]

Line
 Band
 Distribution
 Box Plot

Scope

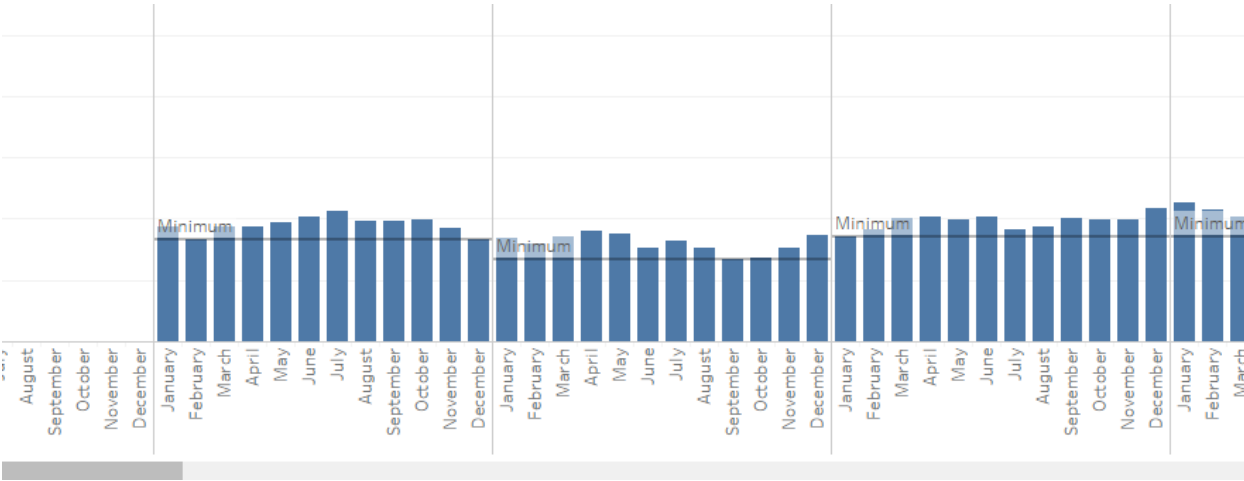
Entire Table
 Per Pane
 Per Cell

Line

Value:

Label:

Tooltip:



Question 9

[2.8.5 trend lines] Add a linear trend line to the scatterplot.

Jeau Public - Tableau Data Analyst Practice Lab

File Data Worksheet Dashboard Story Analysis Map Format Window Help

Standard

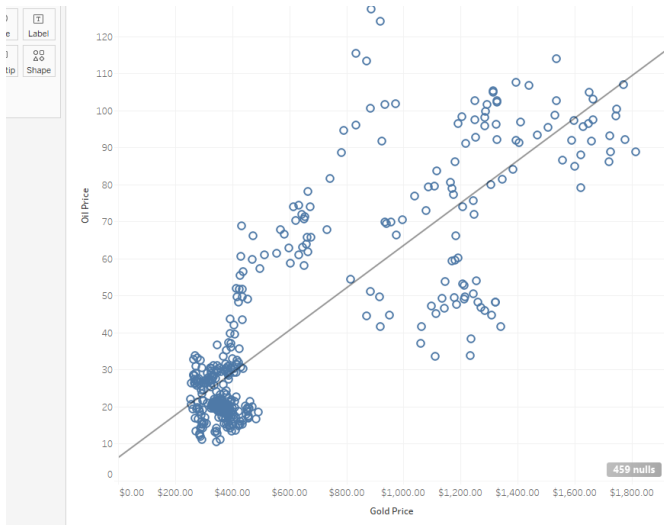
Columns: Gold Price

Rows: Oil Price

Scatter

Add a Trend Line
 Linear
 Logarithmic
 Exponential
 Polynomial
 Power

130
 120
 110

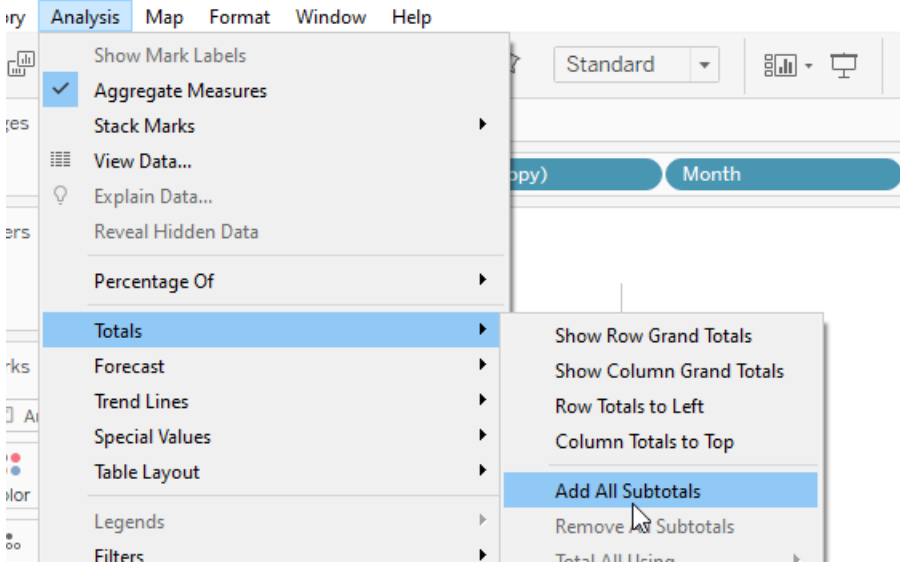


Question 10

[2.8.1. Totals and Subtotals]

Add subtotals to the Price Table worksheet.

Practice Lab



Result:

A screenshot of the Tableau worksheet showing a table with months and prices. The table has a 'Total' row highlighted. A tooltip is displayed over the 'Total' row, showing the following information:

September	\$397.25
October	\$382.00
November	\$415.65
December	\$512.00
Total	\$320.08
January	
February	\$6
March	\$4
April	\$5
May	\$535.50

The tooltip also shows the following summary statistics:

- Month: All
- Year (copy): 1979
- Avg. Gold Price: \$320.08