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Question: I really need the answer to question e! Please do it in r markd...

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You can access datasets from the R datasets package by using

data(NAME_OF_DATASET)

For this question, we will use the dimaonds data from the ggplot2 library.

library(tidyverse) # Note the tidyverse package loads the ggplot2 library data(diamonds)

Note you can learn about this dataset by using

help(diamonds)

- a. Determine the (i) mode and (ii) class of the diamonds data object.
- b. How would you find how many rows and columns the object has by using R functions nrow and ncol? Give the code and the result.
- c. What is the value contained in row 12345 and the depth column (which contains the depth percentage)?
- d. Write a line of code that creates a new data object called diamonds_imp which is of the same mode and class as the original diamonds data object and contains the same columns as the original, but also contains three new columns: x_{imp} , y_{imp} , z_{imp} where each of these measurements are Imperial measurements in inches, i.e. x_imp is equal to x divided by 25.4, as there are 25.4 mm in 1 inch. Show the first 6 rows of the resulting data object.
- e. Write a line of code that adds a column named over_under to the diamonds_imp data object that contains the difference between the price of the diamond in that row and the median of the prices of other diamonds with the same color.
- f. Write a line of code that creates a new data object from the original diamonds data object named Expensive that contains only the diamonds whose price is strictly greater than \$18800 and show the contents of that data object.

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Thanks

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Expert Answer (1)



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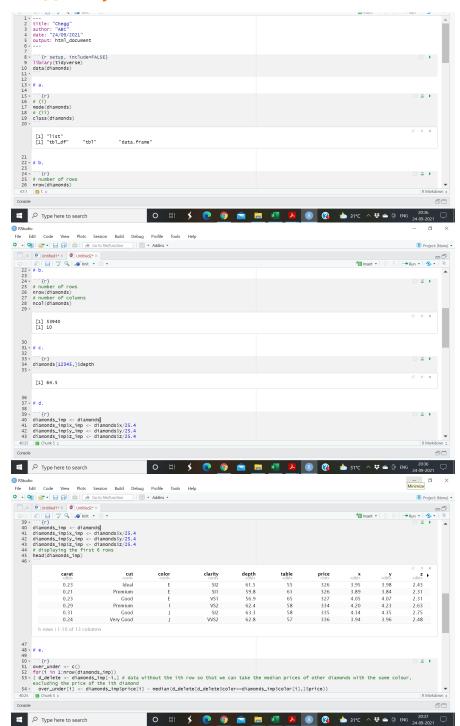
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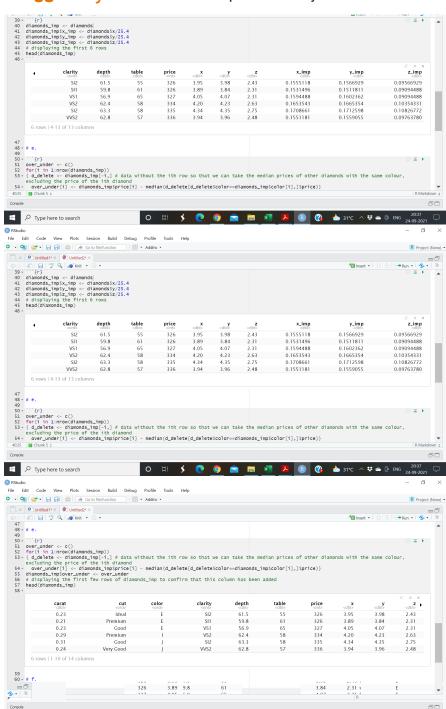
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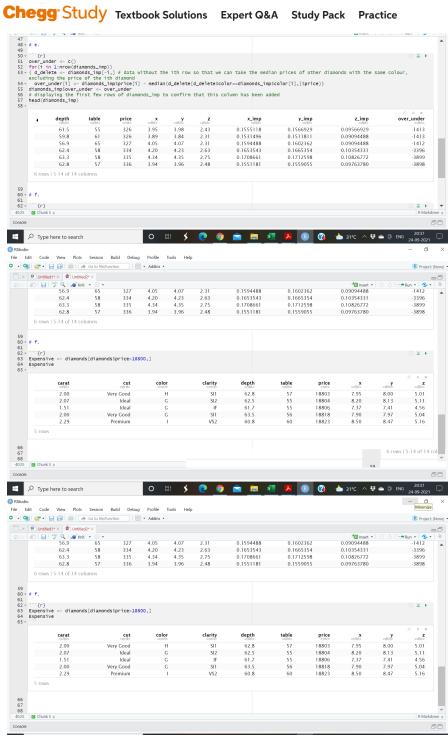




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