WU #5 - Verbs

Monday, September 16, 2024

DS 002R - Jo Hardin

Ν	ame: _								_			
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	0.23		E	SI2			326			2.43		
2 3		Premium Good	E E	SI1 VS1	56.9		326 327		3.84 4.07	2.31 2.31		
	1. Wh	ich color	diamor	nd seems	to be t	he large	est on a	average	(in ter	ms of c	arats)?	[I use

2. What is the average price per carat of diamonds that cost more than \$10,000?

average color in the population.]

the word "seem" because this is simply one dataset, and maybe it isn't representative of all diamonds. That is, the largest average color in this sample may not be the largest

Solution:

1. Which color diamond seems to be the largest on average (in terms of carats)? [I use the word "seem" because this is simply one dataset, and maybe it isn't representative of all diamonds. That is, the largest average color in this sample may not be the largest average color in the population.]

```
diamonds |>
  group_by( color ) |>
  summarize( avesize = mean(carat) ) |>
  arrange( desc(avesize) ) |> head(1)
```

```
# A tibble: 1 x 2
  color avesize
  <ord>     <dbl>
1 J 1.16
```

2. What is the average price per carat of diamonds that cost more than \$10,000?

```
diamonds |>
  filter(price > 10000) |>
  summarise( mean.ppc = mean(price/carat) ) |>
  arrange( desc(mean.ppc) ) |> head(1)
```