Activity 16

A survey was given to 500 people to help decide what types of shoes to recommend. Using the data, you need to identify any patterns or trends in the data that can help your model make predictions. You should look for "hot spots" in the data where there are large clusters of answers, then use that to identify trends.

Question 1: Where do you plan to spend time today?

	Shoe Preference					
	cowboy boots	crocs	dress shoes	sandals	tennis shoes	work boots
bed	2	13	0	16	0	0
city	23	6	15	10	47	40
indoors	14	10	50	18	88	10
nature	15	19	12	28	17	47

What is a trend you can find in the data? Use it to complete this sentence:

People who answer _____ also tend to wear _____

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Question 2: What is the weather like today?

	Shoe Preference					
	cowboy boots	crocs	dress shoes	sandals	tennis shoes	work boots
rainy	18	8	17	8	11	25
snowy	5	5	21	0	0	55
sunny	16	16	15	41	74	6
windy	15	19	24	23	67	11

What is a trend you can find in the data? Use it to complete this sentence:

People who answer _____ also tend to wear _____

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Question 3: Do you plan on wearing socks today?

	Shoe Preference					
	cowboy boots	crocs	dress shoes	sandals	tennis shoes	work boots
no	36	29	20	61	25	0
yes	18	19	57	11	127	97

What is a trend you can find in the data? Use it to complete this sentence:

People who answer _____ also tend to wear _____

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Question 4: How would you describe your plans for today?

	Shoe Preference					
	cowboy boots	crocs	dress shoes	sandals	tennis shoes	work boots
casual	21	15	4	26	78	9
lazy	7	13	0	34	29	0
professional	22	18	73	0	34	12
work	4	2	0	12	11	76

What is a trend you can find in the data? Use it to complete this sentence:

People who answer _____ also tend to wear _____

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Question 5: Do you want people to notice and compliment your shoes?

	Shoe Preference					
	cowboy boots	crocs	dress shoes	sandals	tennis shoes	work boots
no	0	19	42	35	29	53
yes	54	29	35	37	123	44

What is a trend you can find in the data? Use it to complete this sentence:

People who answer _____ also tend to wear _____

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Shoe Predictions

1) Using the data from all five questions, describe a recommendation you think your model can make based on the answers to several questions. You can use these sentence starters to help:

Your model should recommend shoe _____ when people select the following answers:

A. _____

B. _____

C. _____

2) Using the data from all five questions, are there any responses that don't seem to be very helpful in predicting shoes? This means all of the answers to that question are around the same value, so it's hard to find any "hot spots" that can help your model make predictions.

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