

Categorical variables. Visualization techniques

EXERCISE 1

Ice cream shop

Background

There is an ice cream shop, that is operating in New York, LA and San Francisco.

Data

You have sold 12,327 ice creams in New York; 17,129 in LA and 19,923 in San Francisco.

Task

Order the data in a frequency distribution table.

SOLUTION --->

City	Sales	frequency(%)	frequency
NY	12327	25%	0.25
LA	17129	35%	0.35
SF	19923	40%	0.40
Total	49379	100%	1.00

EXERCISE 3

Task 1

Order the table by frequency.

Task 2

Create a bar (column) chart representing the ordered data.

Task 3

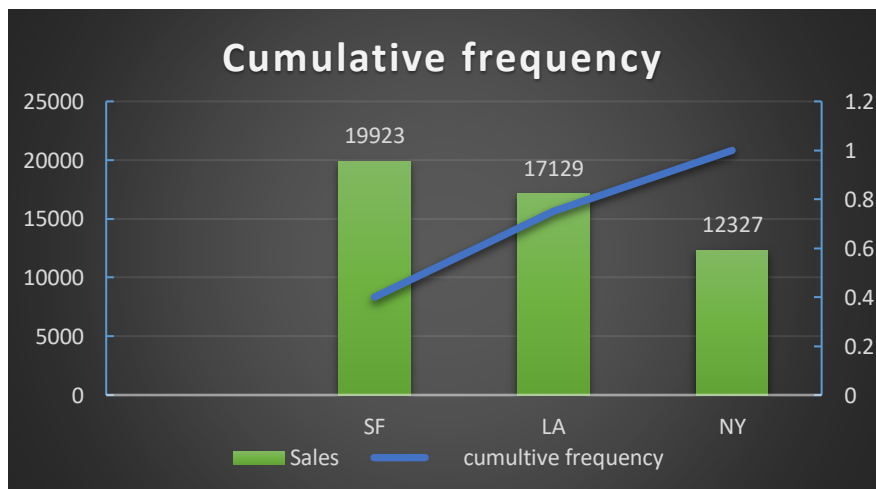
In a new column, calculate the cumulative frequency of the data.

Task 4

On a second axis in the same chart, represent the cumulative frequency of the data.

SOLUTION -->

City	Sales	frec	frequency	cumulative frequency
SF	19923	40%	0.40	0.40
LA	17129	35%	0.35	0.75
NY	12327	25%	0.25	1.00
Total	49379	100%	1.00	



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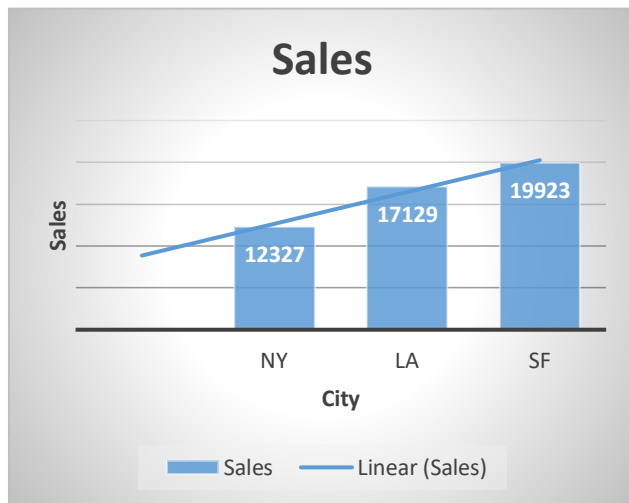
EXERCISE 2

Background You have a frequency distribution table with all the sales.

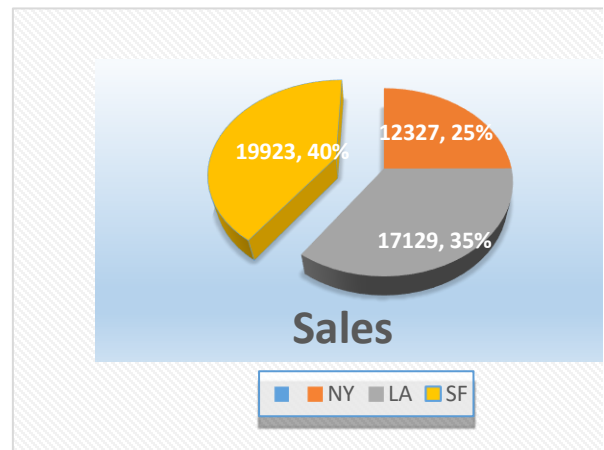
Task Create a bar chart, representing the data. Note that in Excel, the term for a bar charts are called both: 'column'

SOLUTION -->

Bar Chart



Pie Chart



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n charts' and 'bar charts'.

