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 2

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

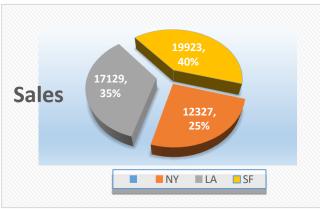
Create a bar and pir chart, representing the data.

SOLUTION -->

Bar Chart



Pie Chart



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.

City	Sales	frec	frequency	cumultive 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	

