

# ASSIGNMENT 1

Dataset: 50-Startup-Dataset

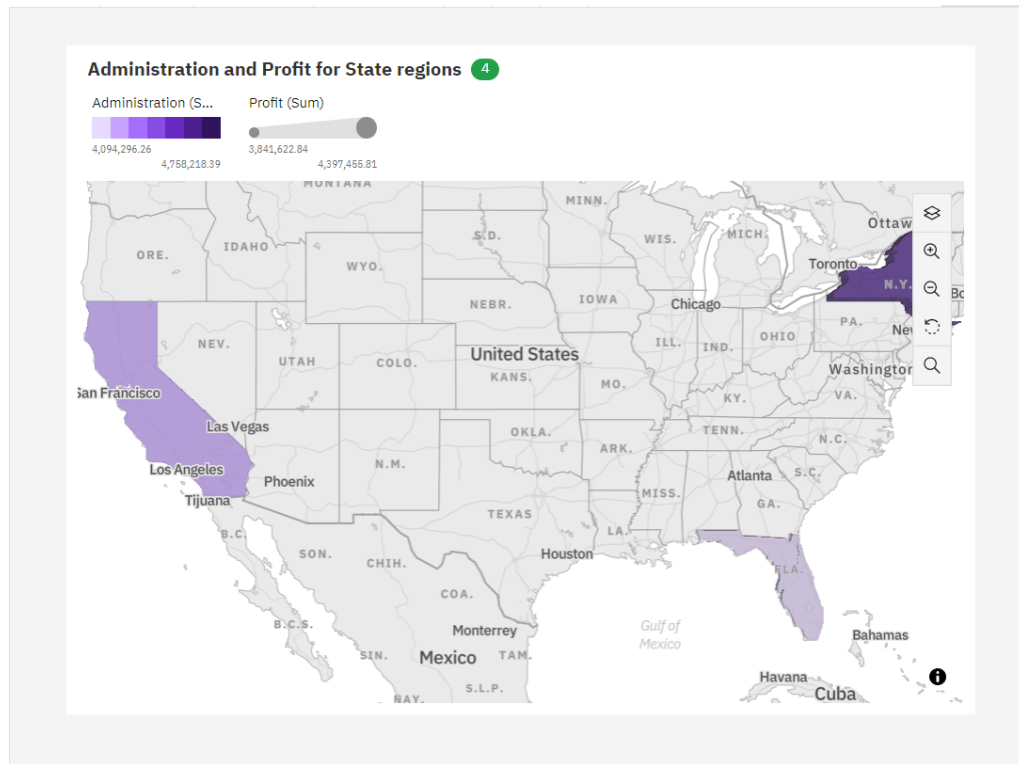
Challenge:

Upload the dataset to Cognos Analytics, explore and visualize the dataset

## 1. DATA RELATIONSHIP:



## Administration and Profit for State regions



## Analytics



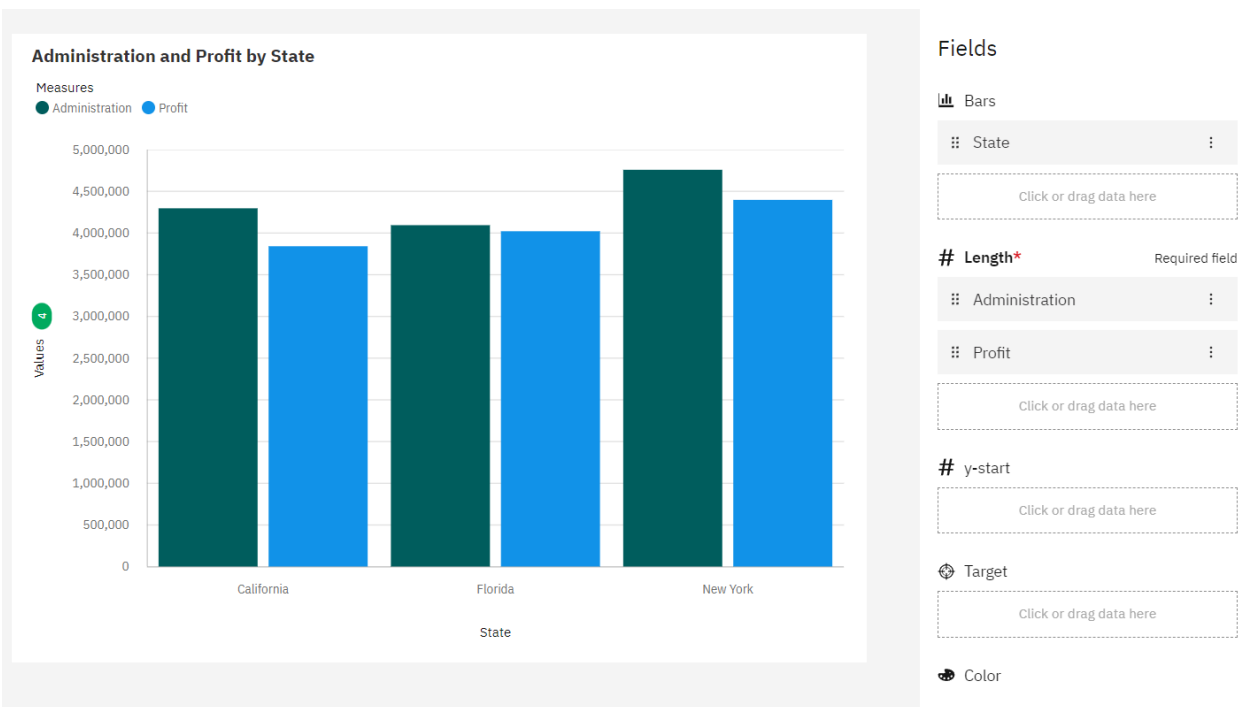
The widget selected does not use forecasting or analytic insights

Select a visualization with analytics support to manage the analytics settings

## Details

Across all **states**, the sum of **Administration** is over 13 million.

**Administration** ranges from nearly 4.1 million, in Florida, to nearly 4.8 million, in New York.



## Details

**Administration** ranges from almost 4.1 million, in Florida, to nearly 4.8 million, in New York.

**Profit** ranges from over 3.8 million, in California, to almost 4.4 million, in New York.

The total number of results for **Profit**, across all **states**, is 108.

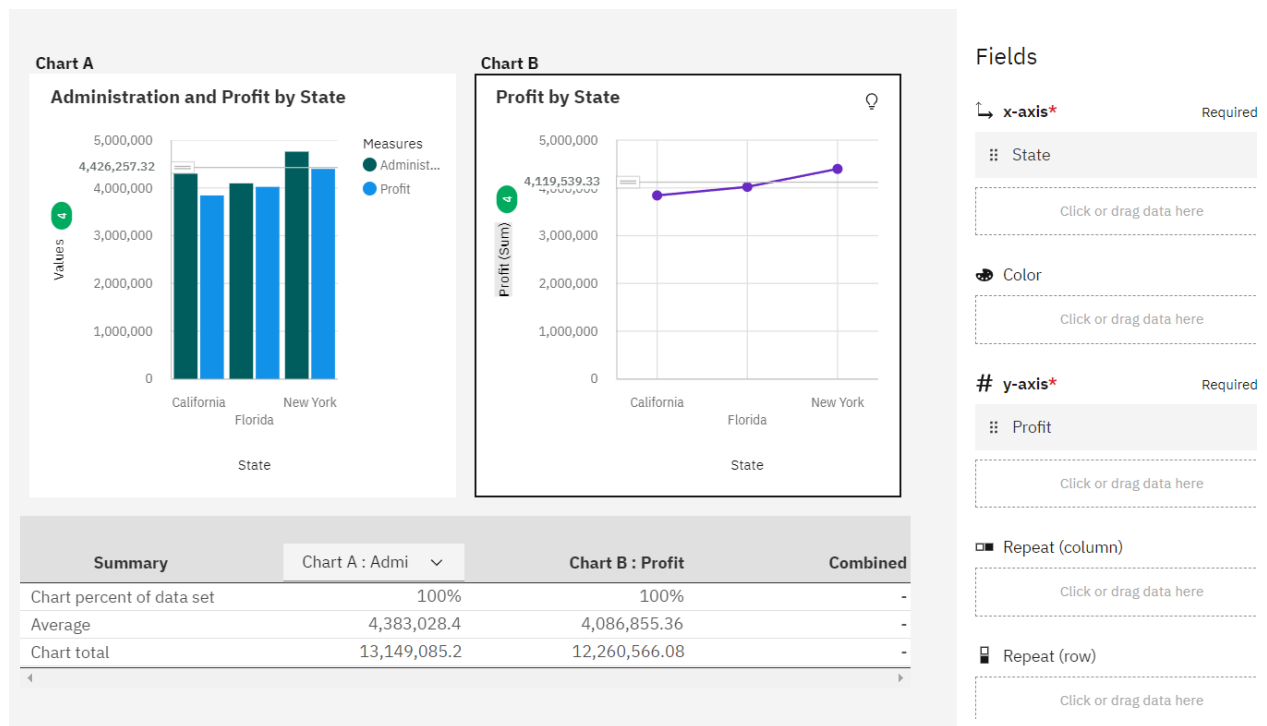
Over all **states**, the average of **Profit** is almost 114 thousand.

The most common values of **State** are New York (36.1 %) and California (33.3 %), together occurring 75 times, which is 69.4 % of the total.

The total number of results for **Administration**, across all **states**, is 108.

Over all **states**, the average of **Administration** is almost 122 thousand.

comparison between bar graph and line graph:

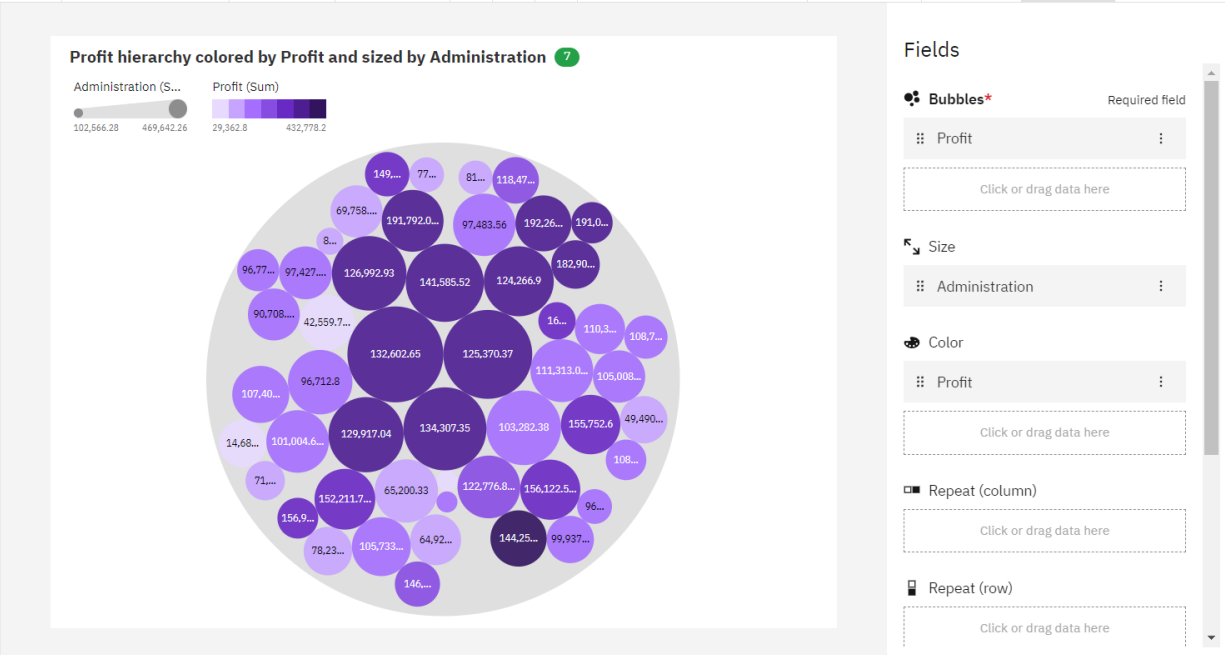


## Details

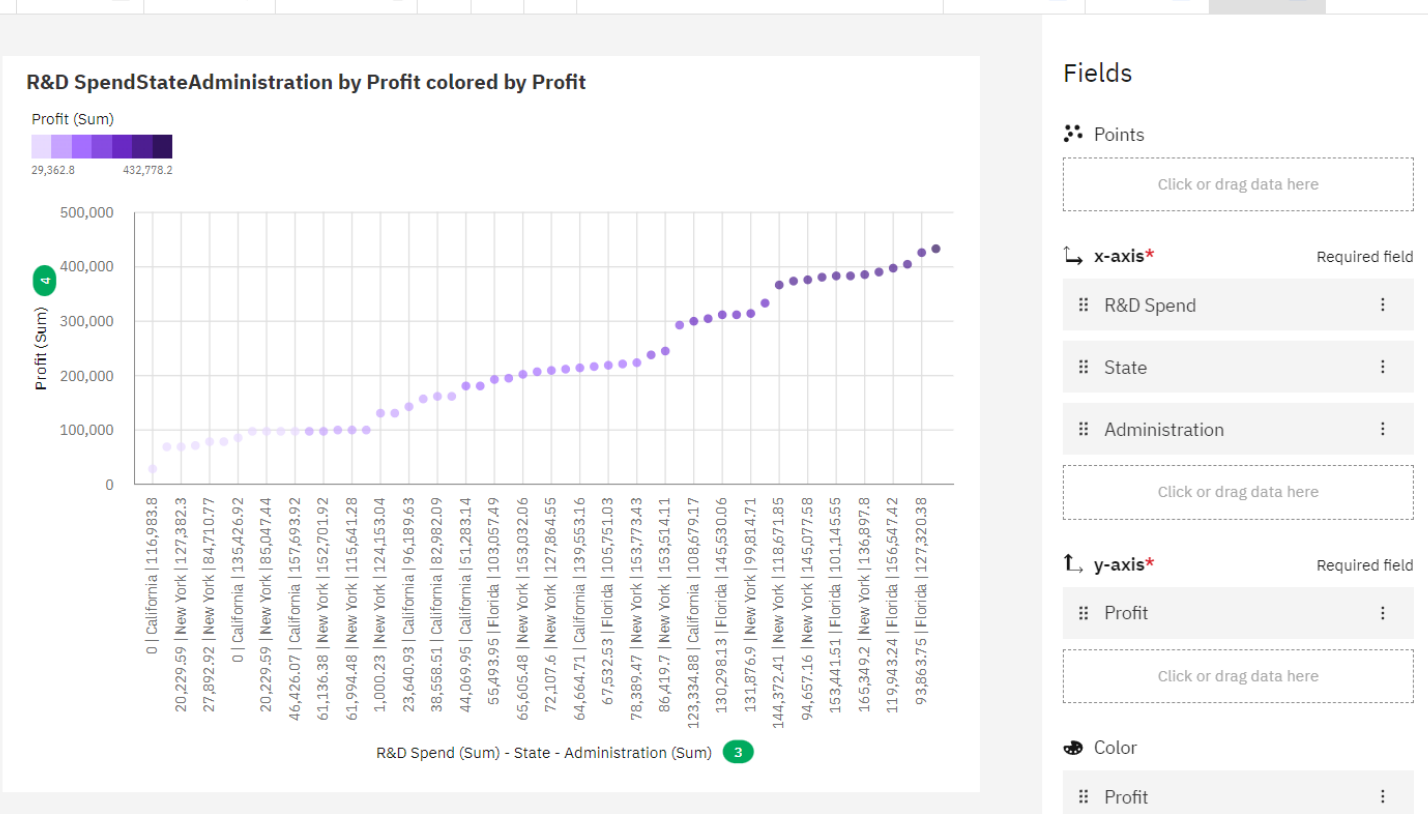
Across all **states**, the sum of **Profit** is over 12 million.

**Profit** ranges from over 3.8 million, in California, to almost 4.4 million, in New York.

## hierachy bubble



scatter plot:



## Details

The total number of results for **R&D Spend**, across all **r&d spend - state - administrations**, is 108.

Over all **r&d spend - state - administrations**, the average of **R&D Spend** is almost 114 thousand.

The most common values of **R&D Spend - State - Administration** are 20229.59|New York|127382.3 (4.6 %) and 0|California|116983.8 (3.7 %), together occurring 9 times, which is 8.3 % of the total.

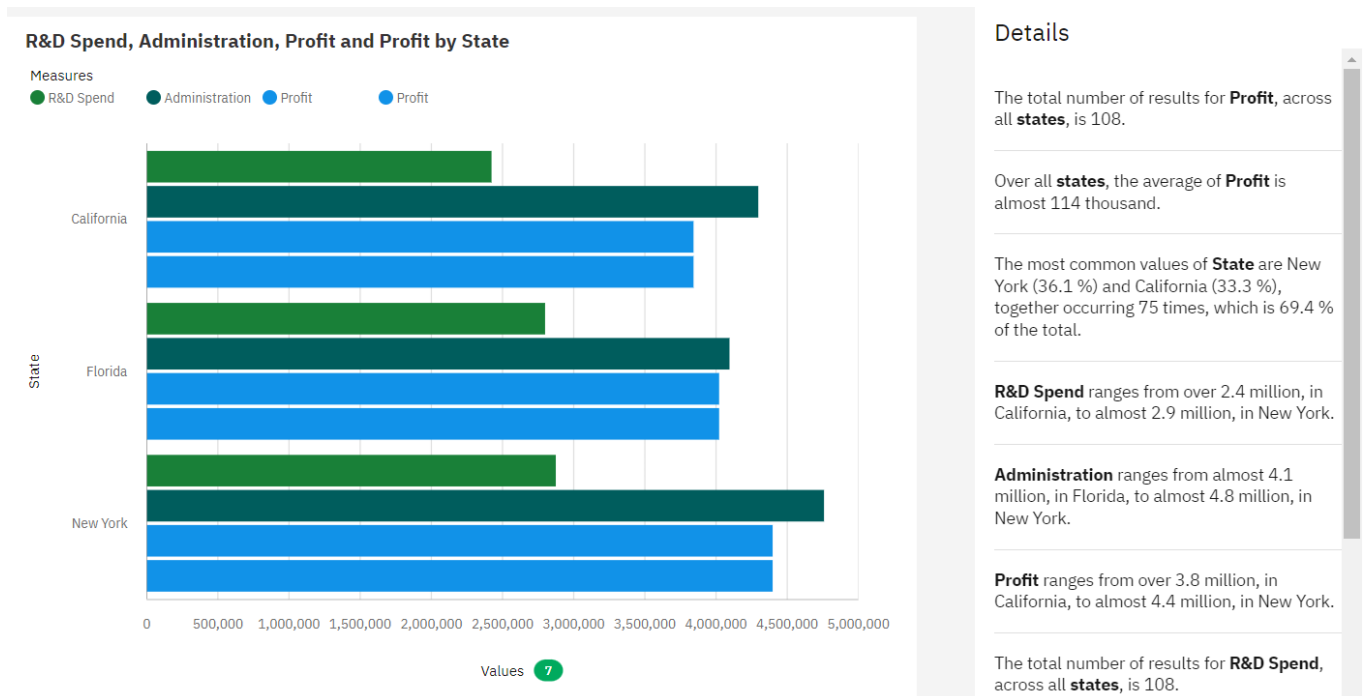
**Profit** ranges from 0, when **R&D Spend - State - Administration** is 0|California|116983.8, to 2, when **R&D Spend - State - Administration** is 27892.92|New York|84710.77.

**R&D Spend** ranges from over 29 thousand, when **R&D Spend - State - Administration** is 0|California|116983.8, to almost 433 thousand, when **R&D Spend - State - Administration** is 153441.51|Florida|101145.55.

The total number of results for **Profit**, across all **r&d spend - state - administrations**, is 108.

Over all **r&d spend - state - administrations**, the average of **Profit** is 0.5093.

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## Details

The total number of results for **Profit**, across all **states**, is 108.

Over all **states**, the average of **Profit** is almost 114 thousand.

The most common values of **State** are New York (36.1 %) and California (33.3 %), together occurring 75 times, which is 69.4 % of the total.

**R&D Spend** ranges from over 2.4 million, in California, to almost 2.9 million, in New York.

**Administration** ranges from almost 4.1 million, in Florida, to almost 4.8 million, in New York.

**Profit** ranges from over 3.8 million, in California, to almost 4.4 million, in New York.

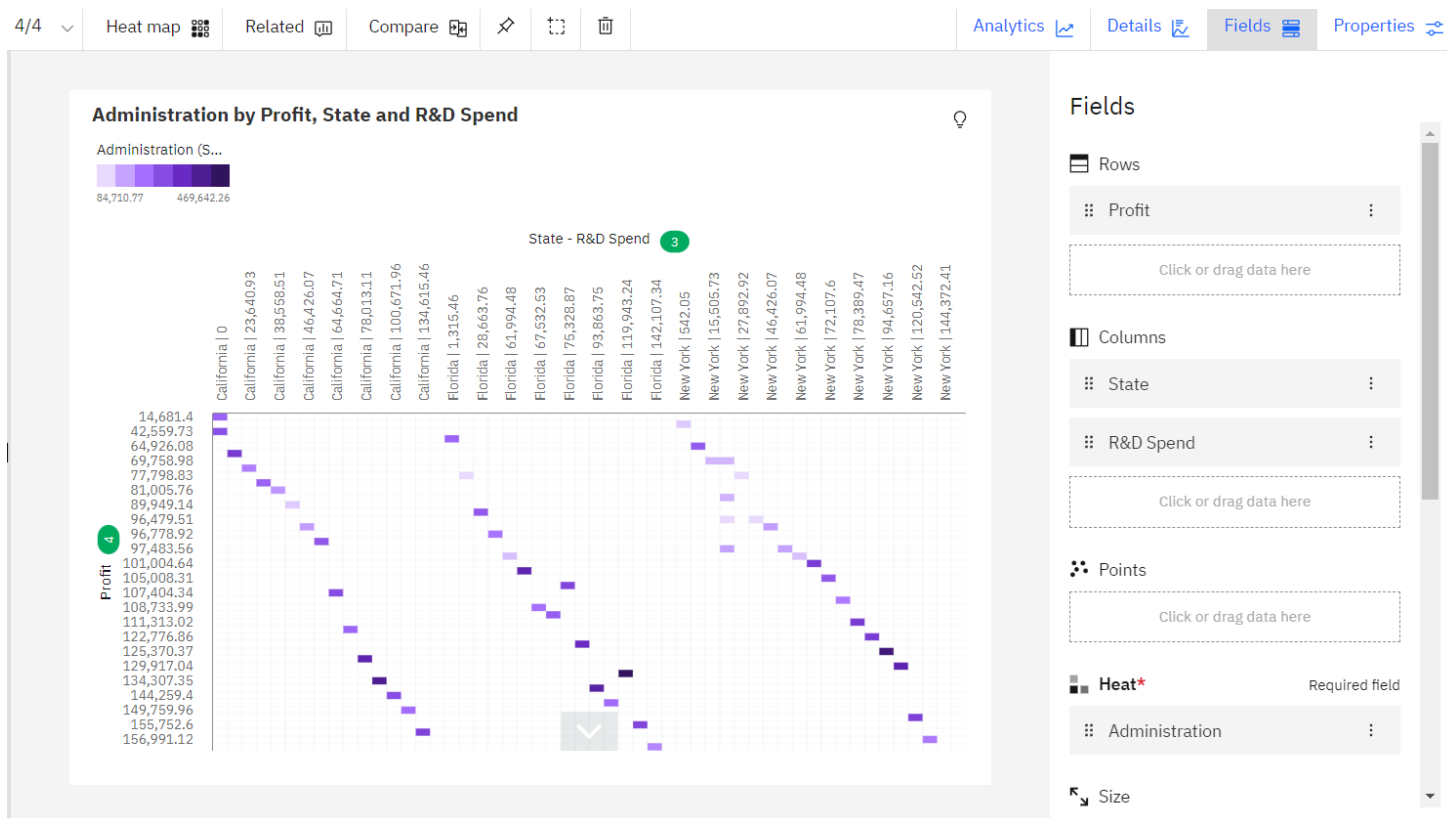
The total number of results for **R&D Spend**, across all **states**, is 108.

Over all **states**, the average of **R&D Spend** is almost 75 thousand.

The total number of results for **Administration**, across all **states**, is 108.

Over all **states**, the average of **Administration** is almost 122 thousand.

heat map:



## Details

For **Administration**, the most significant values of **Profit** are 97483.56, 96479.51, and 69758.98, whose respective **Administration** values add up to 212, or 16 % of the total.

Over all **profits** and **state - r&d spends**, the sum of **Administration** is almost 1500.

For **Administration**, the most significant value of **State - R&D Spend** is California|23640.93, whose respective **Administration** values add up to 828, or 62.5 % of the total.

The summed values of **Administration** range from 0 to 48.

For **Administration**, the most significant value of **State - R&D Spend** is series\_CAT2, whose respective **Administration** values add up to 828, or 62.5 % of the total.

**Administration** is unusually high when **State - R&D Spend** is series\_CAT2, series\_CAT1 and series\_CAT0.