

Analytics for Hospitals Health-Care Data

Assignment -1

NAME : MONISHA A

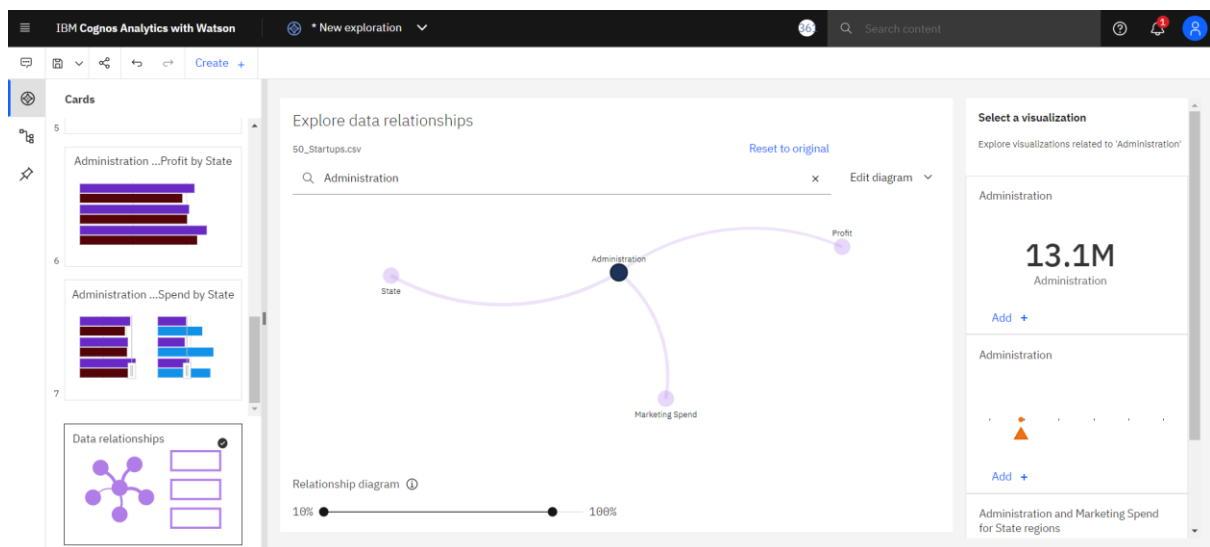
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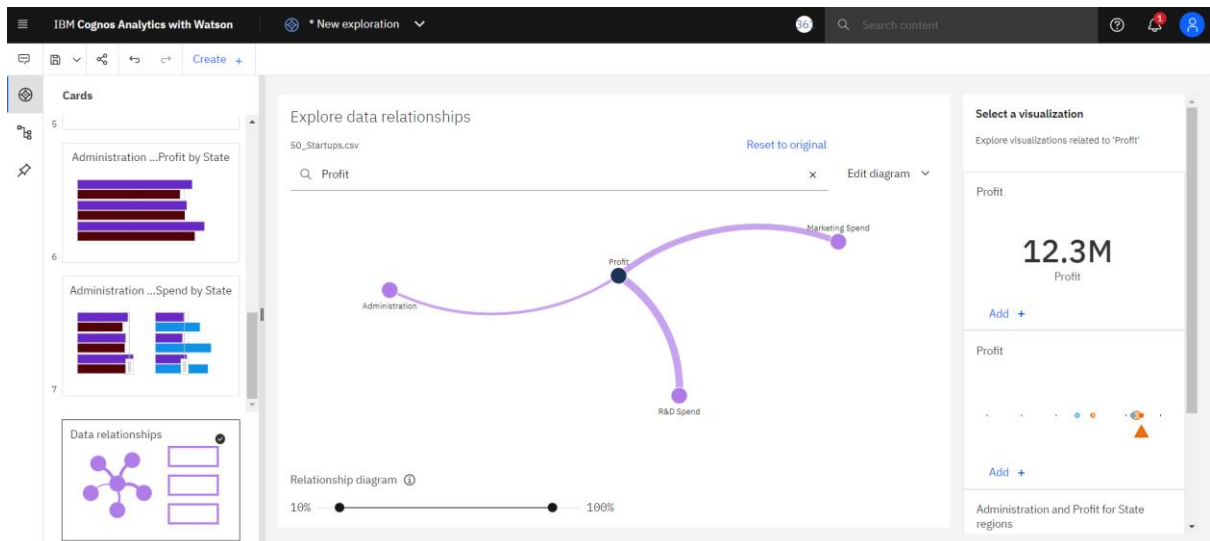
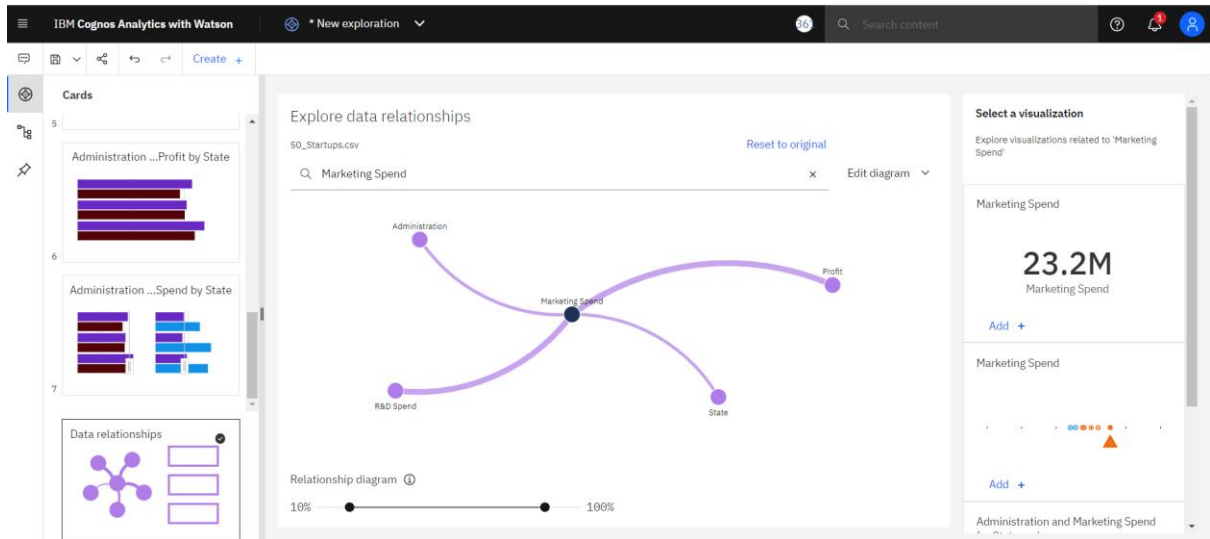
Challenge : Upload the dataset to Cognos Analytics, explore and visualize the dataset

Dataset :

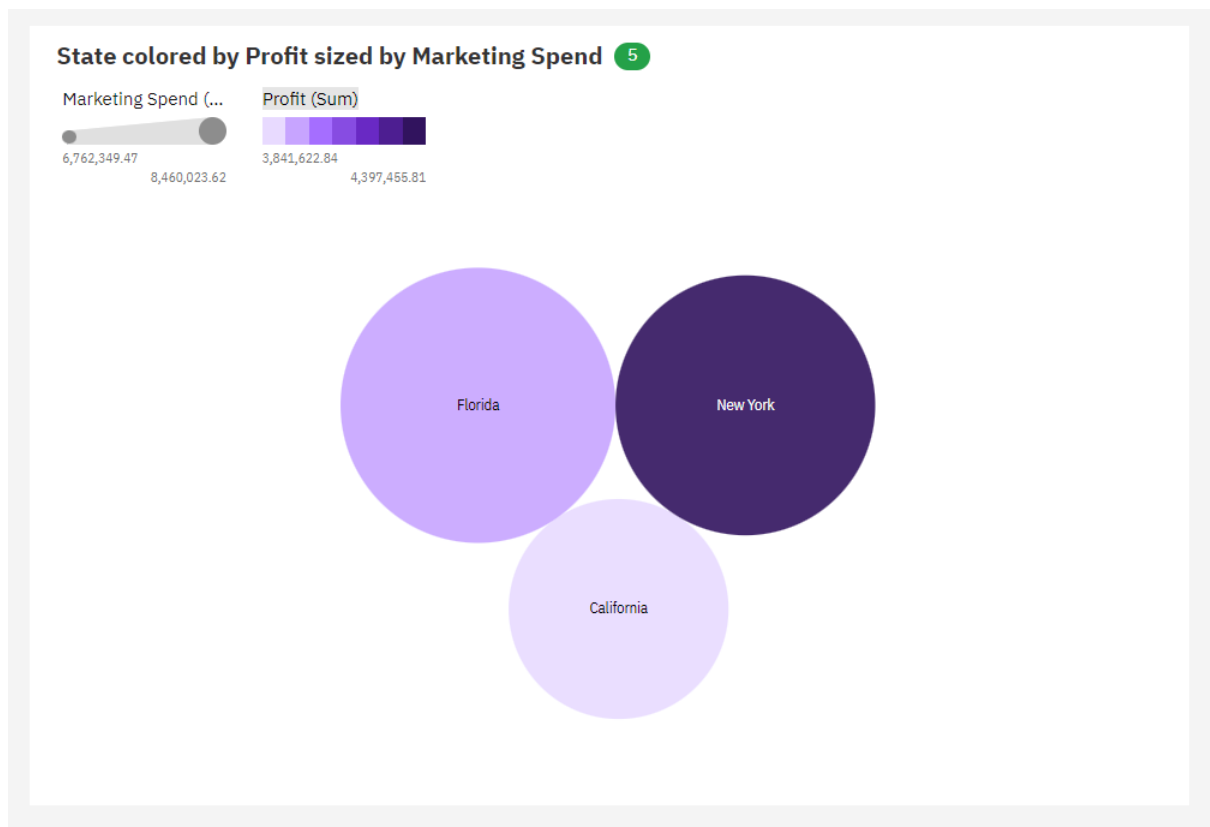
https://drive.google.com/file/d/100OUpJFG8GQjhFztbfG5JP_jvzRgoihr/view

Data Relation Exploration



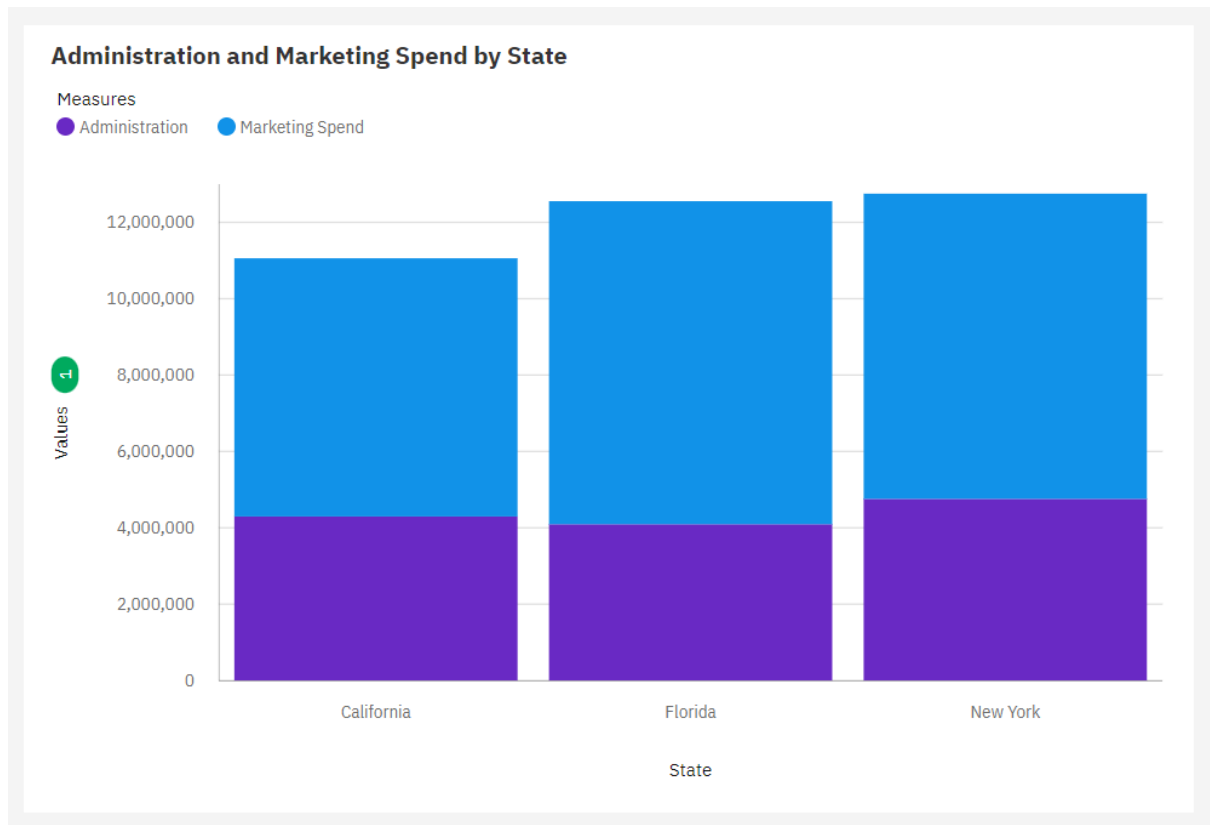


DATA VISUALIZATION



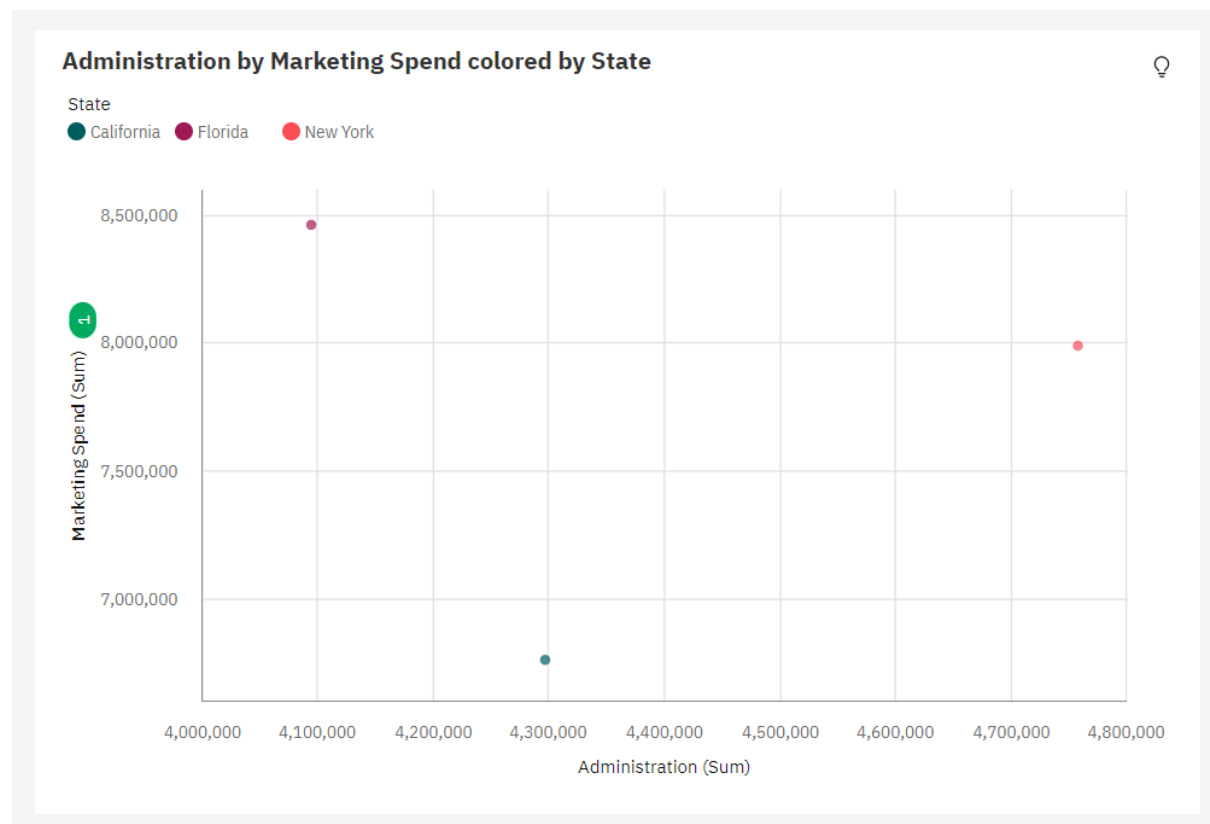
- ✚ Across all **states**, the sum of **Marketing Spend** is over 23 million.
- ✚ For **Marketing Spend**, the most significant values of **State** are Florida and New York, whose respective **Marketing Spend** values add up to over 16 million, or 70.9 % of the total.
- ✚ **Marketing Spend** ranges from almost 6.8 million, in California, to nearly 8.5 million, in Florida.

Administration and Marketing Spend by State

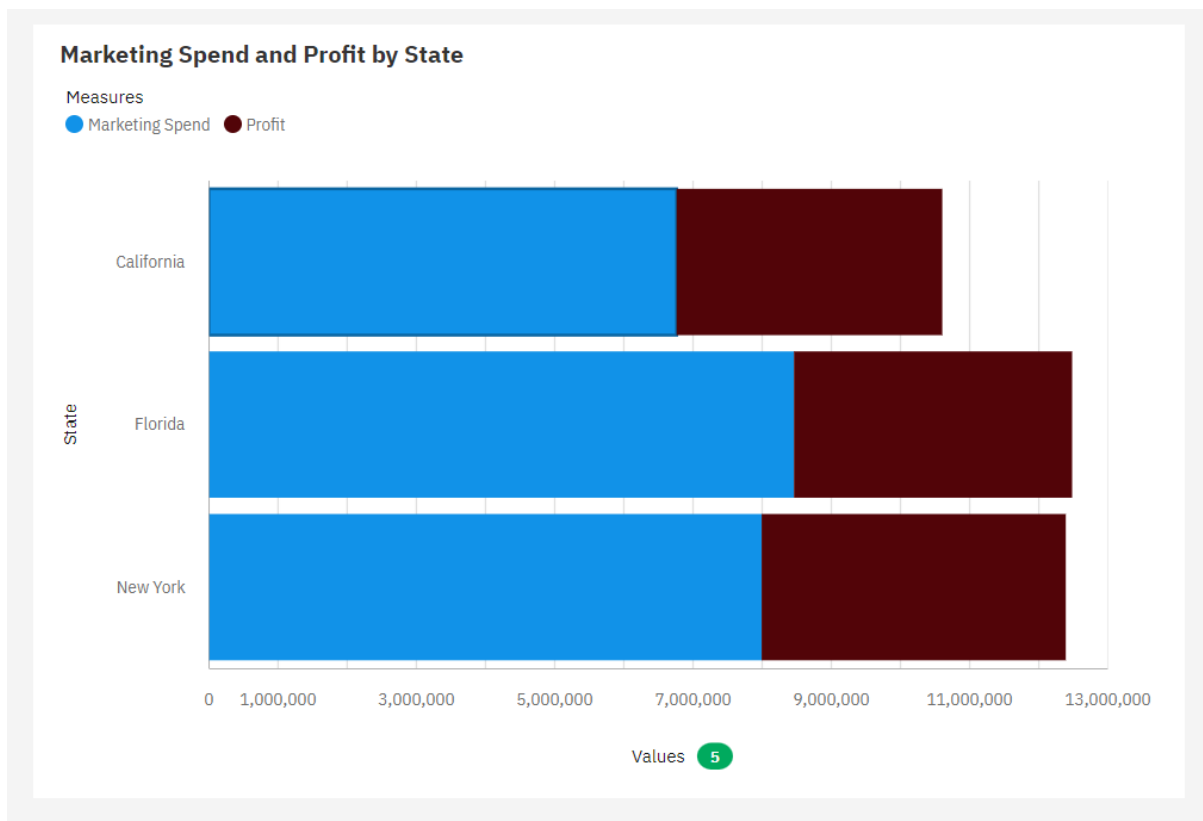


- The total number of results for **Marketing Spend**, across all **states**, is 108.
- Over all **states**, the average of **Marketing Spend** is almost 215 thousand.
- The most common values of **State** are New York (36.1 %) and California (33.3 %), together occurring 75 times, which is 69.4 % of the total.
- Administration** ranges from nearly 4.1 million, in Florida, to almost 4.8 million, in New York.
- Marketing Spend** ranges from almost 6.8 million, in California, to nearly 8.5 million, in Florida.
- The total number of results for **Administration**, across all **states**, is 108.

Administration by Marketing Spend colored by State

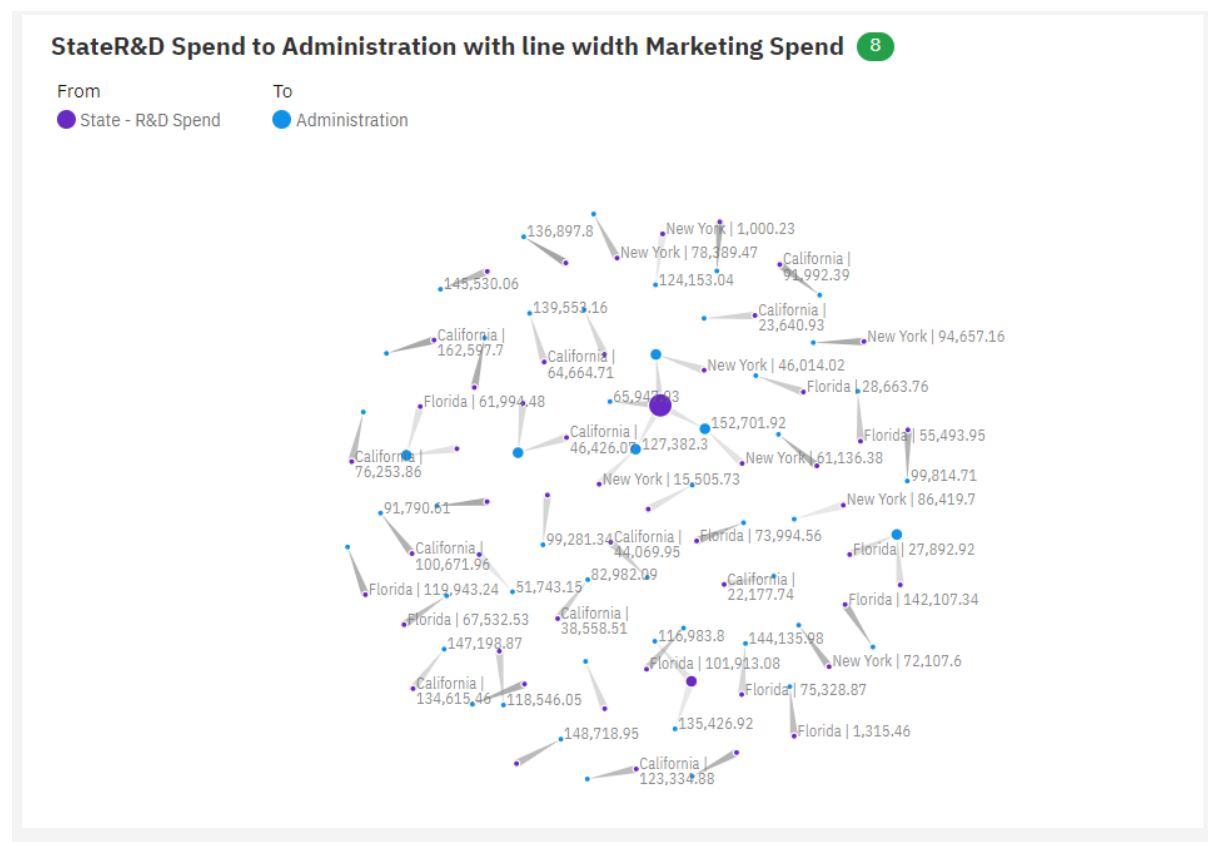


- ✚ Across all **states**, the sum of **Marketing Spend** is over 23 million.
- ✚ For **Marketing Spend**, the most significant values of **State** are Florida and New York, whose respective **Marketing Spend** values add up to over 16 million, or 70.9 % of the total.
- ✚ **Marketing Spend** ranges from almost 6.8 million, in California, to almost 8.5 million, in Florida.
- ✚ There is a strong quadratic relationship between **Marketing Spend** and **Administration**, being $\text{Marketing Spend} = 335809392 - 148.1 * \text{Administration} + 0.00001666 * \text{Administration}^2$.
- ✚ **Marketing Spend** has a fitted minimum value of 6,383,475 when **Administration** is 4,447,397.



- ✚ **Marketing Spend** ranges from nearly 6.8 million, in California, to almost 8.5 million, in Florida.
- ✚ **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 **Marketing Spend**, across all **states**, is 108.
- ✚ Over all **states**, the average of **Marketing Spend** is nearly 215 thousand.

StateR&D Spend to Administration with line width Marketing Spend



- ✚ The most common values of **State - R&D Spend** are categories_CAT2 (36.1 %) and categories_CAT0 (33.3 %), together occurring 75 times, which is 69.4 % of the total.
- ✚ The most common values of **Administration** are 65947.93 (4.6 %) and 124153.04 (3.7 %), together occurring 9 times, which is 8.3 % of the total.
- ✚ Across all **state - r&d spends**, the sum of **Profit** is over 23 million.
- ✚ For **Profit**, the most significant values of **State - R&D Spend** are categories_CAT1 and categories_CAT2, whose respective **Profit** values add up to over 16 million, or 70.9 % of the total.
- ✚ **Profit** is unusually high when **State - R&D Spend** is categories_CAT1, categories_CAT2 and categories_CAT0.