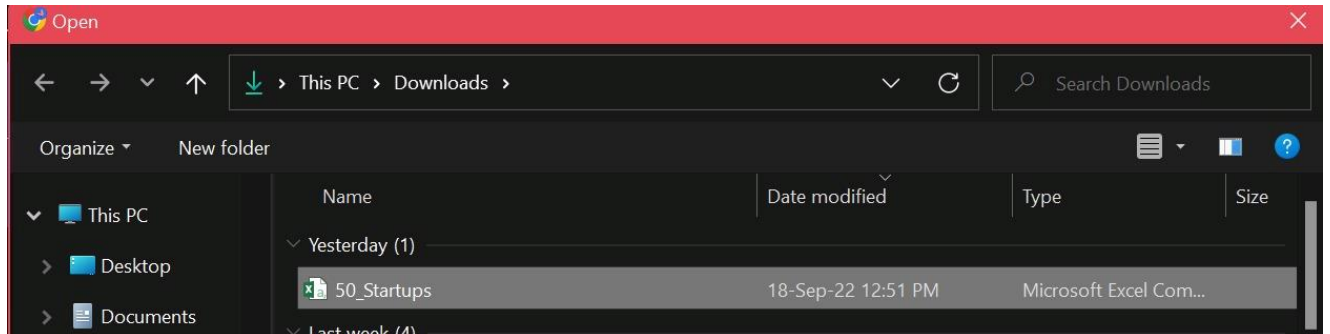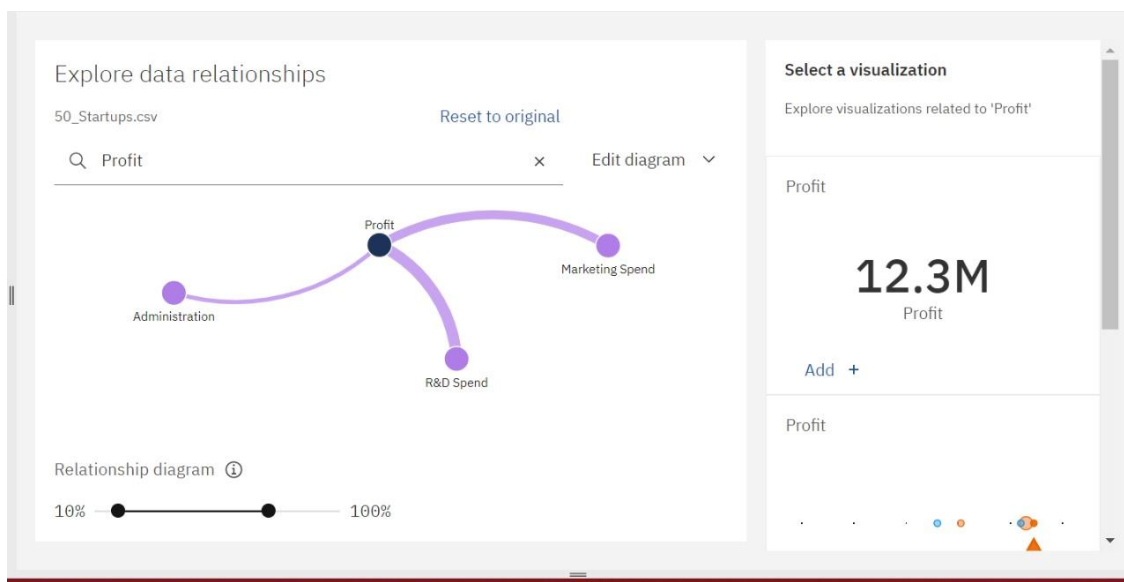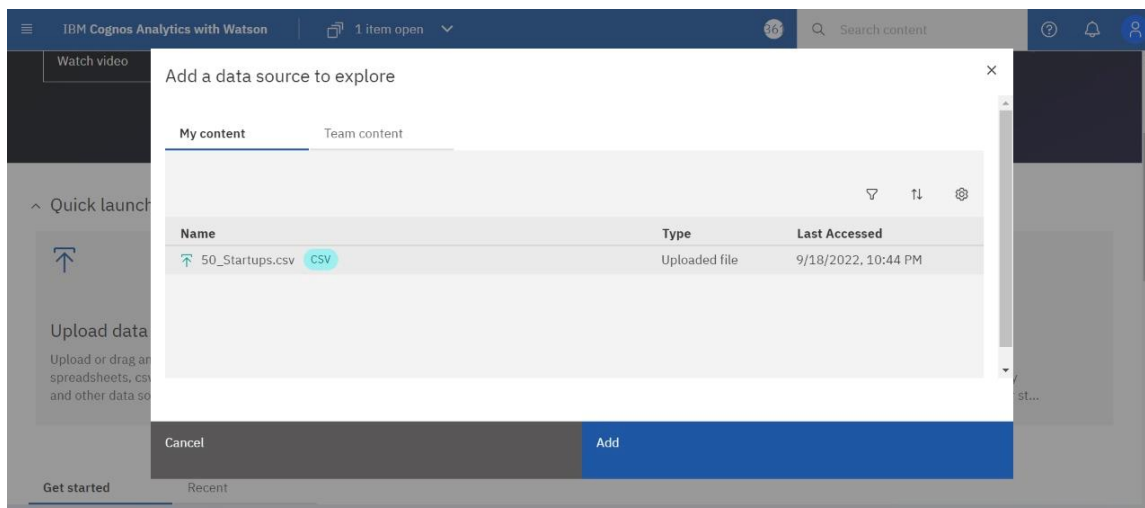# ASSIGNMENT 1

Uploaded the data:
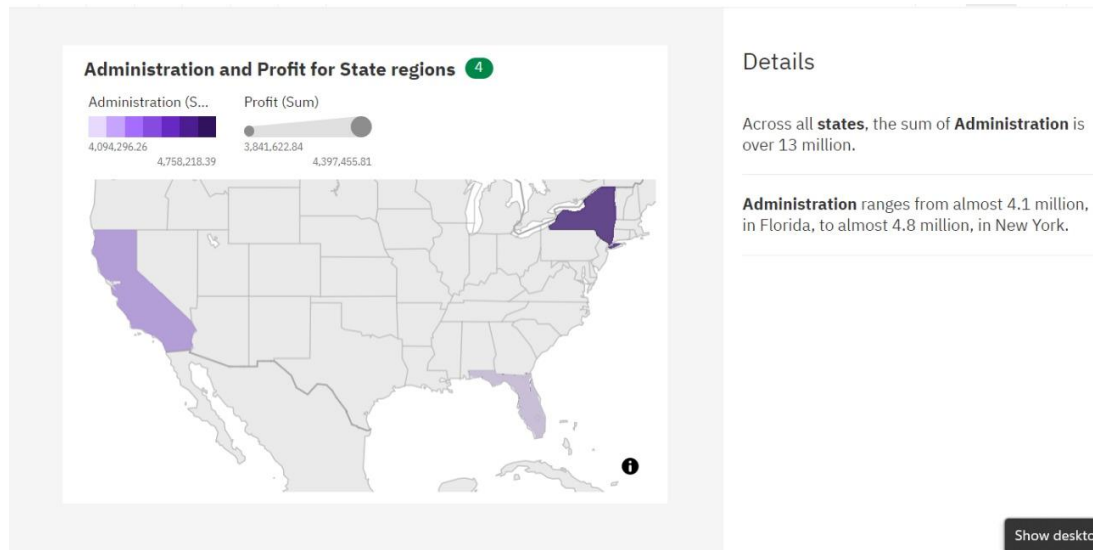

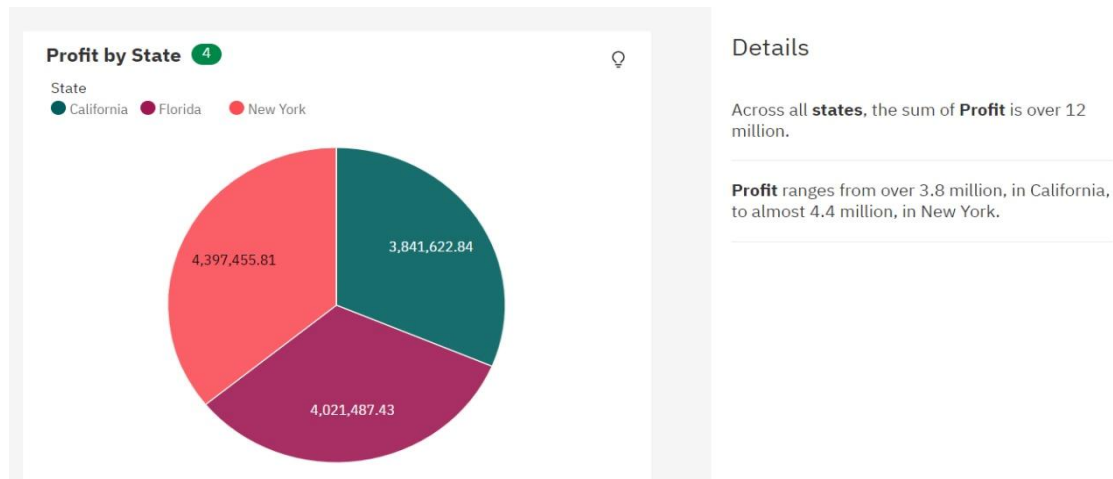**Explored the data:**

Visualization of data:

Link:

https://us3.ca.analytics.ibm.com/bi/?perspective=explore&pathRef=.my_folders%2FAssignment%2B1&subView=model0000018353e340b8_00000004
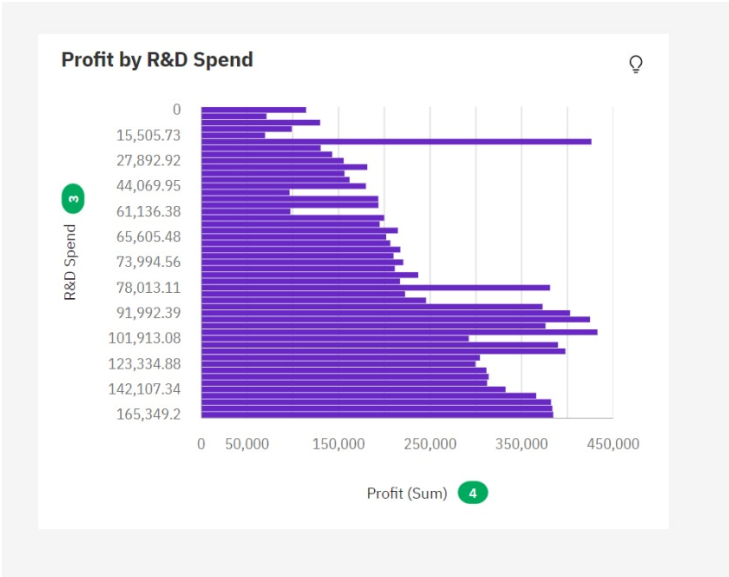
1)Map:

2) Pie:

3) Bar:

Profit by R&D Spend

R&D Spend	
0	
15,505.73	
27,892.92	
44,069.95	
61,136.38	
65,605.48	
73,994.56	
78,013.11	
91,992.39	
101,913.08	
123,334.88	
142,107.34	
165,349.2	

Profit (Sum) axis: 0, 50,000, 150,000, 250,000, 350,000, 450,000
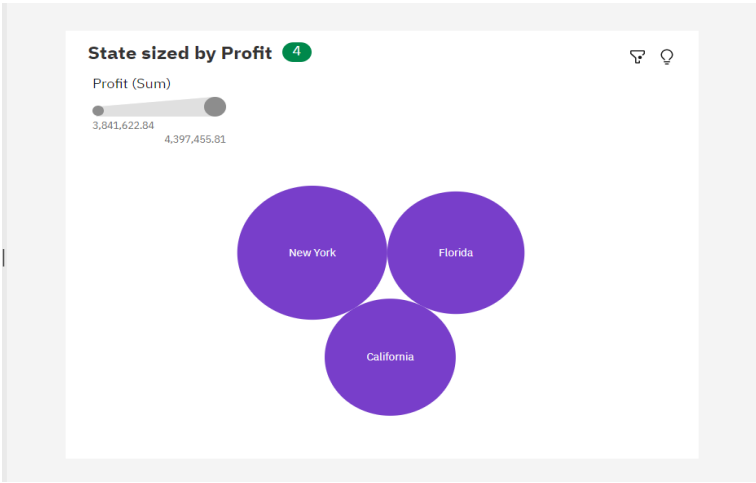
Details

Across all **r&d spends**, the sum of **Profit** is over 12 million.

For **Profit**, the most significant values of **R&D Spend** are 100671.96, 20229.59, and 93863.75, whose respective **Profit** values add up to almost 1.3 million, or 10.5 % of the total.

Profit ranges from nearly 70 thousand, when **R&D Spend** is 15505.73, to nearly 433 thousand, when **R&D Spend** is 100671.96.

4) Packed Bubble:

State sized by Profit

Profit (Sum)

3,841,622.84
4,397,455.81

New York, Florida, California

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.

5) Cross tab:

Profit for State and R&D Spend ⑧

| Profit	New York	Summary
542.05	71,346.82	**71,346.82**
1,000.23	129,852.16	**129,852.16**
15,505.73	69,758.98	**69,758.98**
20,229.59	426,180.17	**426,180.17**
27,892.92	77,798.83	**77,798.83**
46,014.02	96,479.51	**96,479.51**
46,426.07	96,712.8	**96,712.8**
61,136.38	97,483.56	**97,483.56**
61,994.48	99,937.59	**99,937.59**
65,605.48	202,009.28	**202,009.28**

Details

For **Profit**, the most significant value of **R&D Spend** is 20229.59, whose respective **Profit** values add up to over 426 thousand, or 9.7 % of the total.

Over all **states** and **r&d spends**, the sum of **Profit** is almost 4.4 million.

The summed values of **Profit** range from nearly 70 thousand to over 426 thousand.

6) Column:

Profit and Marketing Spend by State
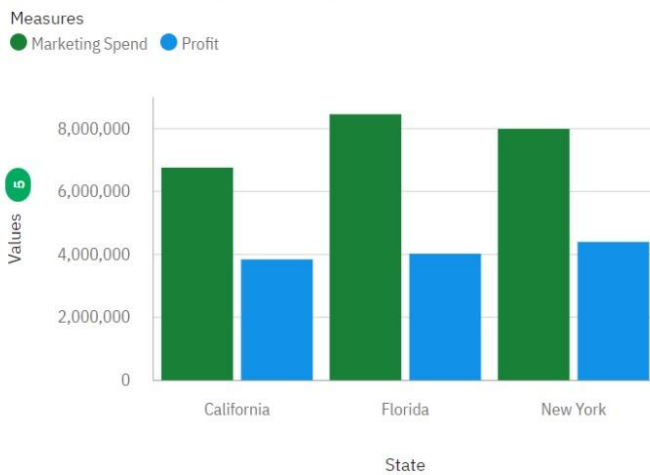
Details

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.

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