

IBM – Data Analytics

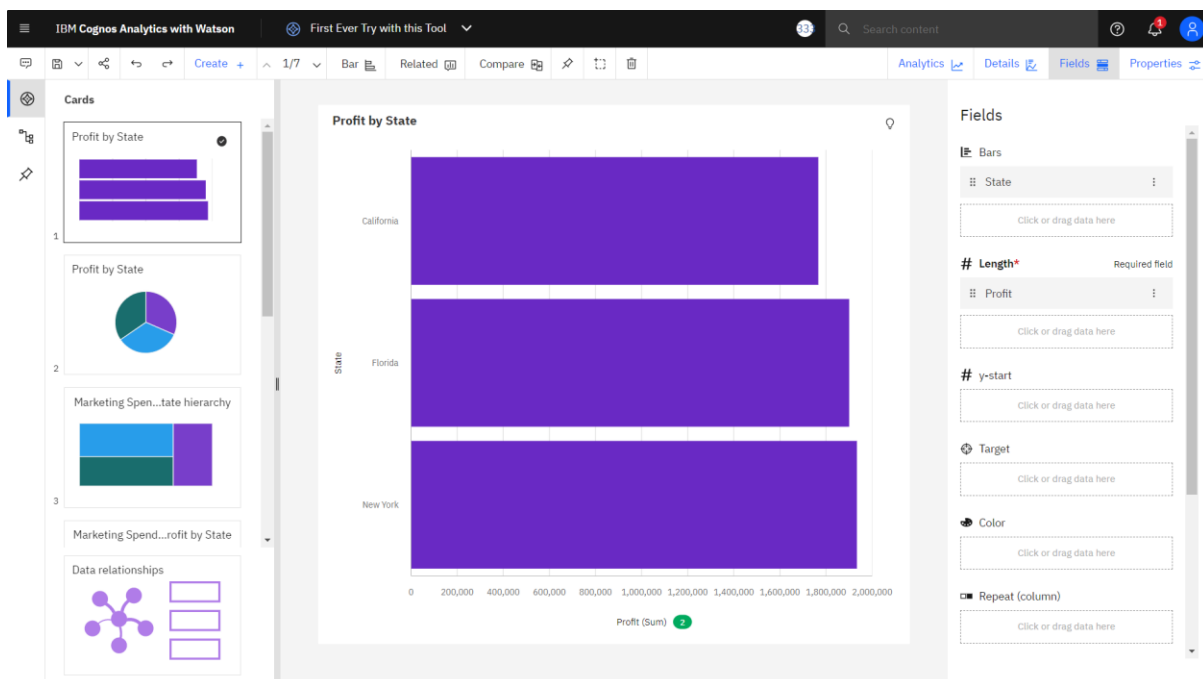
Assignment - 1

Name	Ragul M GA
Roll Number	917719IT073

Challenge:

Upload the dataset to Cognos Analytics, prepare the data, explore and create interactive dashboard.

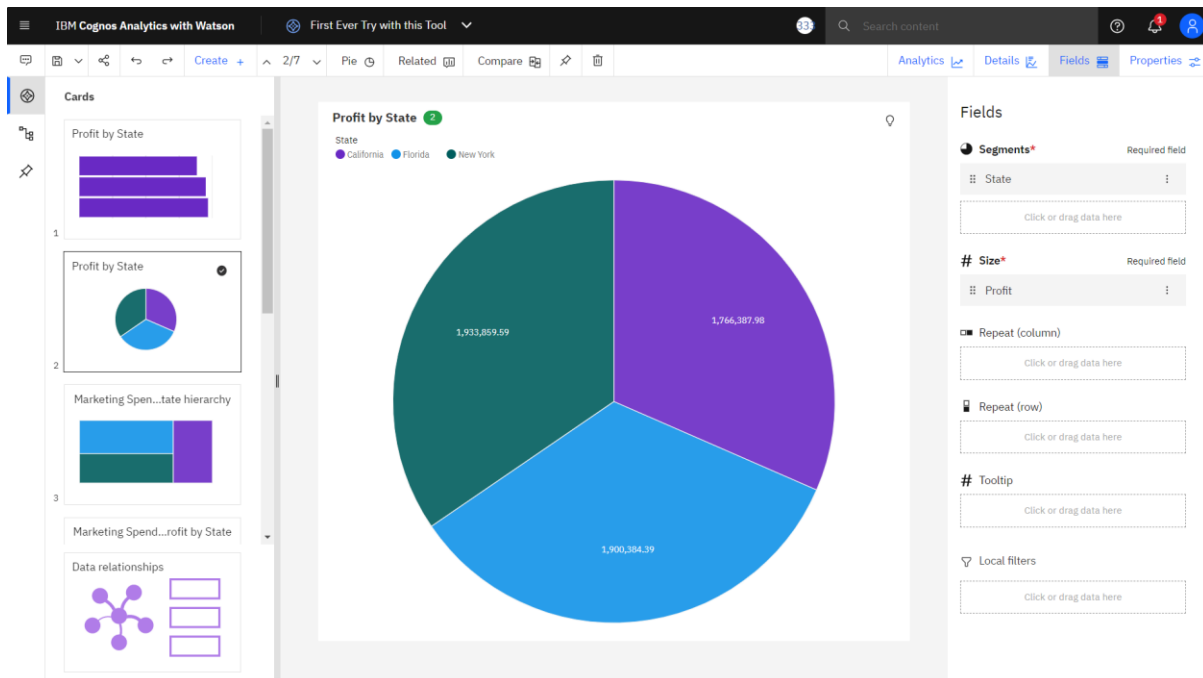
1) Profit by State (Bar):



Inference:

- Across all **states**, the sum of **Profit** is over 5.6 million.
- For **Profit**, the most significant values of **State** are New York and Florida, whose respective **Profit** values add up to over 3.8 million, or 68.5 % of the total.
- **Profit** ranges from nearly 1.8 million, in California, to over 1.9 million, in New York.

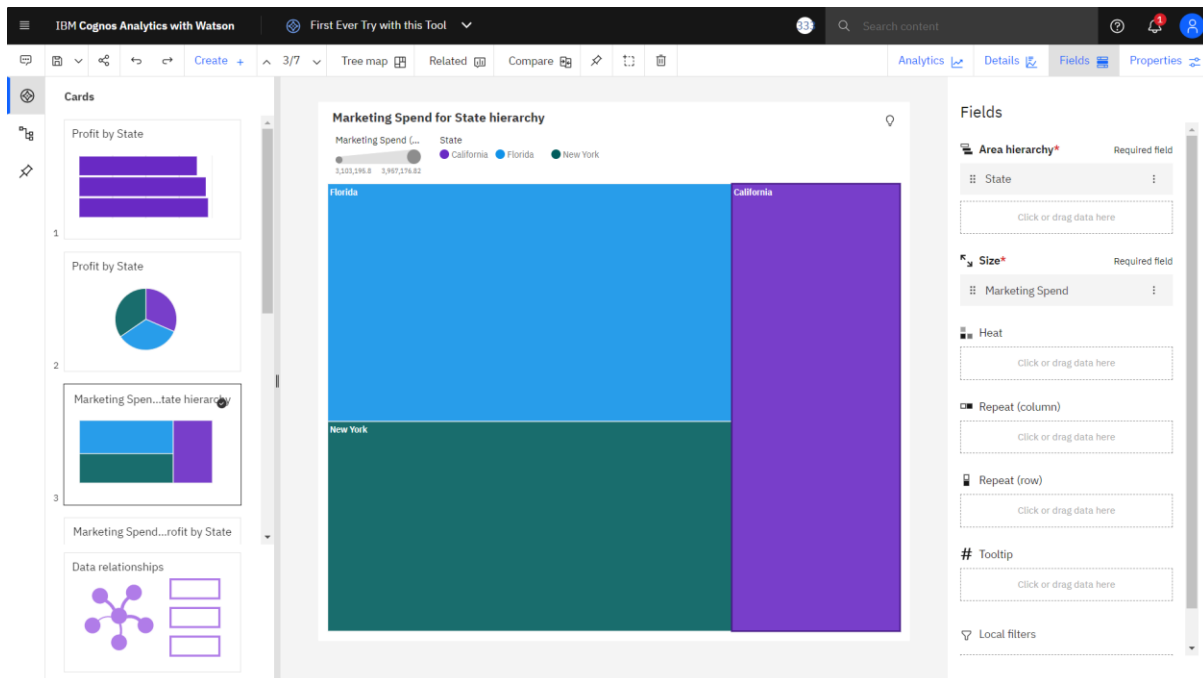
2) Profit by State (Pie):



Inference:

- Across all **states**, the sum of **Profit** is over 5.6 million.
- For **Profit**, the most significant values of **State** are New York and Florida, whose respective **Profit** values add up to over 3.8 million, or 68.5 % of the total.
- **Profit** ranges from nearly 1.8 million, in California, to over 1.9 million, in New York.

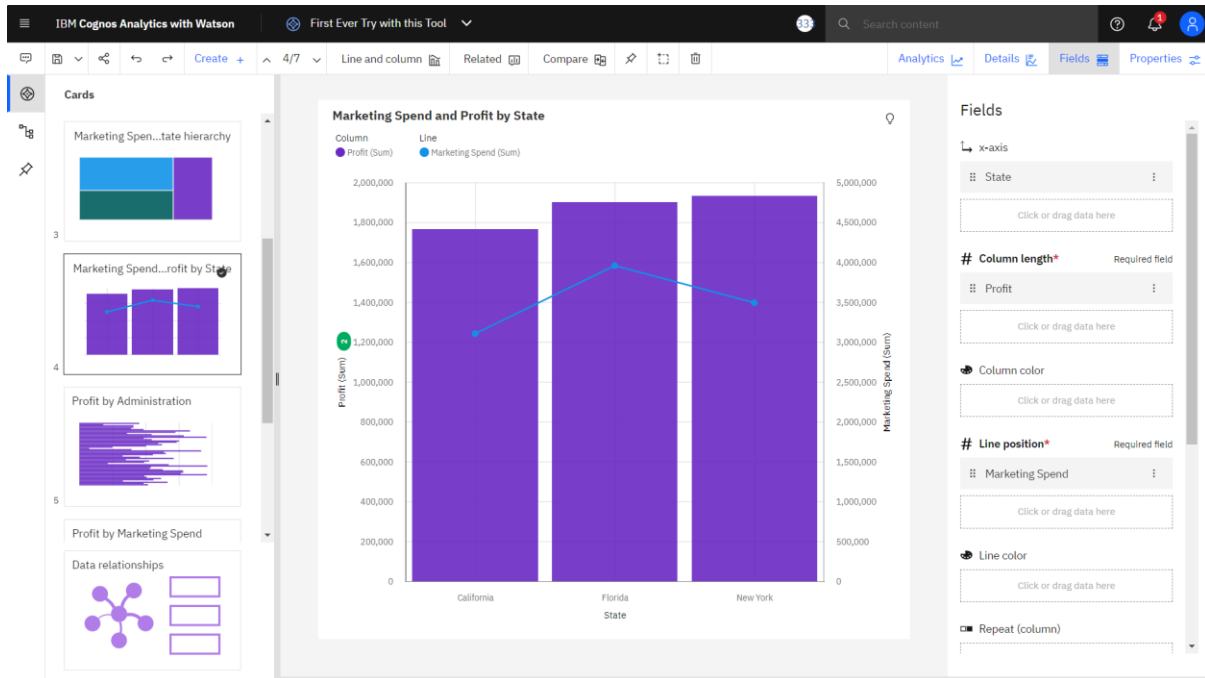
3) Marketing Spend for State Hierarchy (Tree Map):



Inference:

- Over all **states**, the sum of **Marketing Spend** is nearly 11 million.
- **Marketing Spend** ranges from over 3.1 million, in California, to almost 4.0 million, in Florida.

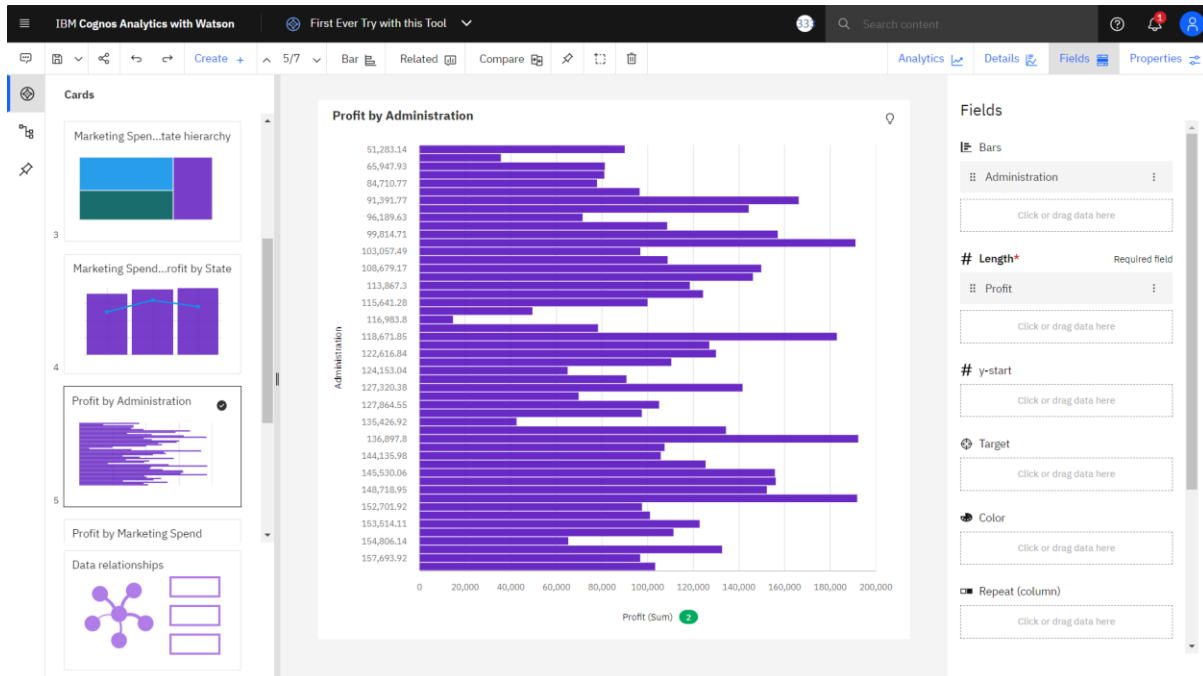
4) Marketing Spend and Profit by State (Line and Column):



Inference:

- Across all **states**, the sum of **Profit** is over 5.6 million.
- For **Profit**, the most significant values of **State** are New York and Florida, whose respective **Profit** values add up to over 3.8 million, or 68.5 % of the total.
- **Profit** ranges from nearly 1.8 million, in California, to over 1.9 million, in New York.
- Over all **states**, the sum of **Marketing Spend** is nearly 11 million.
- **Marketing Spend** ranges from over 3.1 million, in California, to nearly 4.0 million, in Florida.

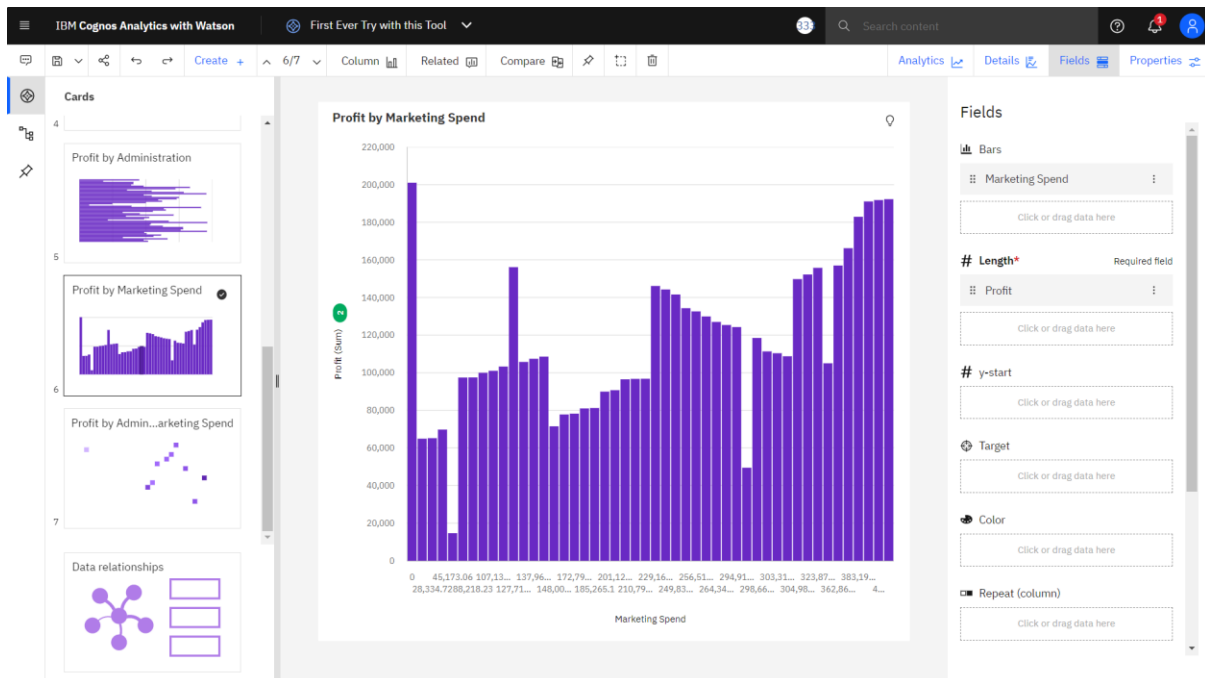
5) Profit by Administration (Bar):



Inference:

- Across all **administrations**, the sum of **Profit** is over 5.6 million.
- For **Profit**, the most significant values of **Administration** are 136897.8, 151377.59, 101145.55, and 118671.85, whose respective **Profit** values add up to over 758 thousand, or 13.5 % of the total.
- **Profit** ranges from nearly fifteen thousand, when **Administration** is 116983.8, to over 192 thousand, when **Administration** is 136897.8.

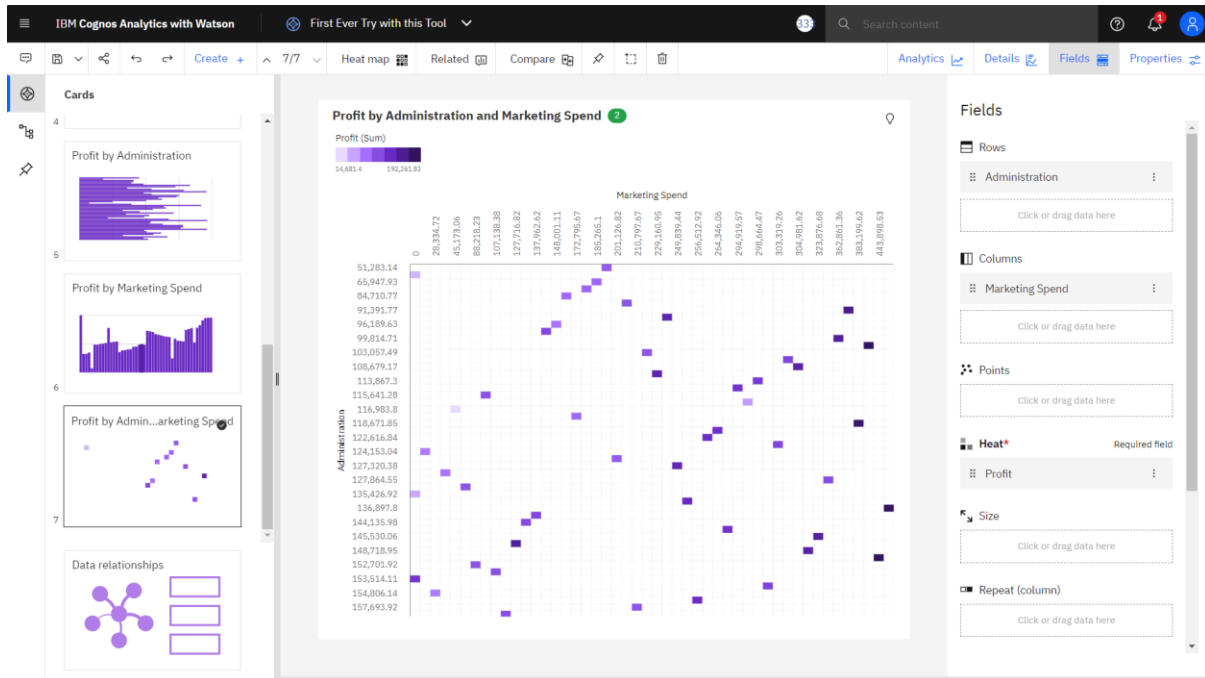
6) Profit by Marketing Spend (Column):



Inference:

- Across all **marketing spends**, the sum of **Profit** is over 5.6 million.
- **Profit** ranges from nearly fifteen thousand, when **Marketing Spend** is 45173.06, to over 201 thousand, when **Marketing Spend** is 0.

7) Profit by Administration and Marketing Spend (Heat Map):



Inference:

- For **Profit**, the most significant values of **Administration** are 136897.8, 151377.59, 101145.55, and 118671.85, whose respective **Profit** values add up to over 758 thousand, or 13.5 % of the total.
- Across all **administrations** and **marketing spends**, the sum of **Profit** is over 5.6 million.
- For **Profit**, the most significant value of **Marketing Spend** is 0, whose respective **Profit** values add up to over 201 thousand, or 3.6 % of the total.
- The summed values of **Profit** range from almost fifteen thousand to over 192 thousand.