

# ASSIGNMENT

## 1. Checking the data preparation form the data set given

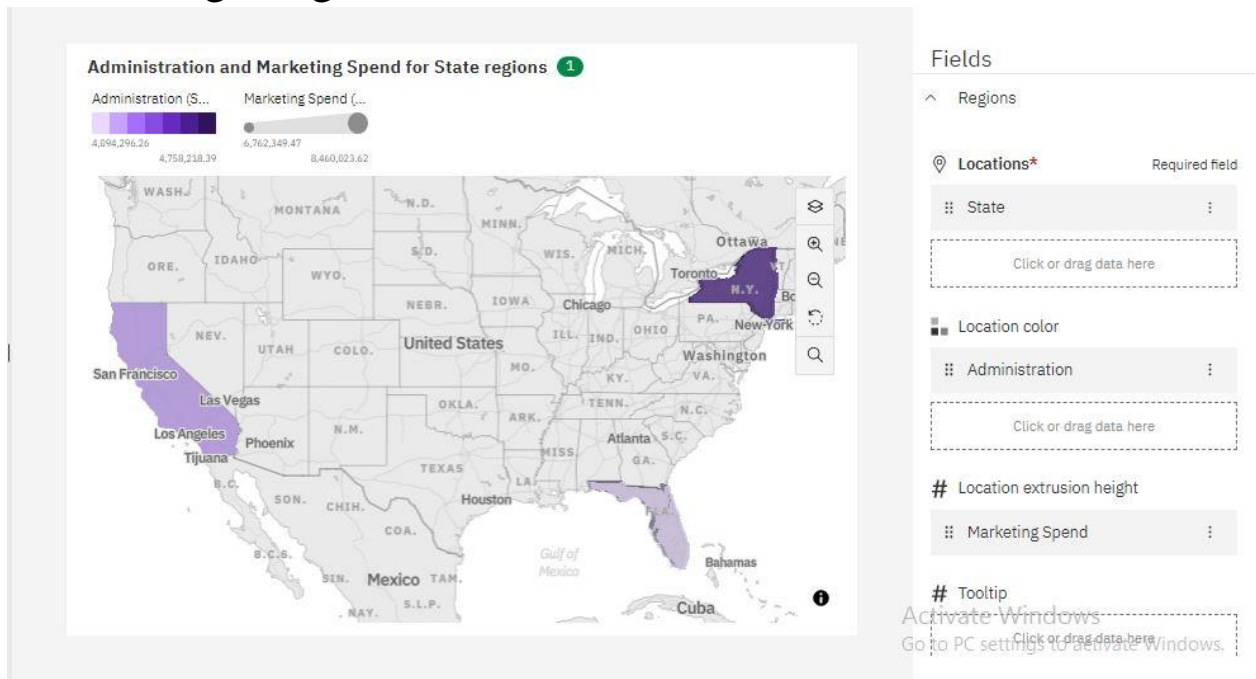
The screenshot shows the IBM Cognos Analytics interface. On the left, the 'Data module' pane lists the data source '50\_Startups\_DataPrep.csv' and its fields: Row Id, R&D Spend, Administration, Marketing Spend, State, and Profit. The 'R&D Spend' field is selected. The main area displays a table with 13 rows of data. The columns are Row Id, R&D Spend, Administration, Marketing Spend, State, and Profit. The data is as follows:

Row Id	R&D Spend	Administration	Marketing Spend	State	Profit
1	165349.2	136897.8	471784.1	New York	192261.83
2	162597.7	151377.59	443898.53	California	191792.06
3	153441.51	101145.55	407934.54	Florida	191050.39
4	144372.41	118671.85	383199.62	New York	182901.99
5	142107.34	91391.77	366168.42	Florida	166187.94
6	131876.9	99814.71	362861.36	New York	156991.12
7	134615.46	147198.87	127716.82	California	156122.51
8	130298.13	145530.06	323876.68	Florida	155752.6
9	120542.52	148718.95	311613.29	New York	152211.77
10	123334.88	108679.17	304981.62	California	149759.96
11	101913.08	110594.11	229160.95	Florida	146121.95
12	100671.96	91790.61	249744.55	California	144259.4
13	93863.75	127320.38	249839.44	Florida	141585.52

## 2. Explore data relationships



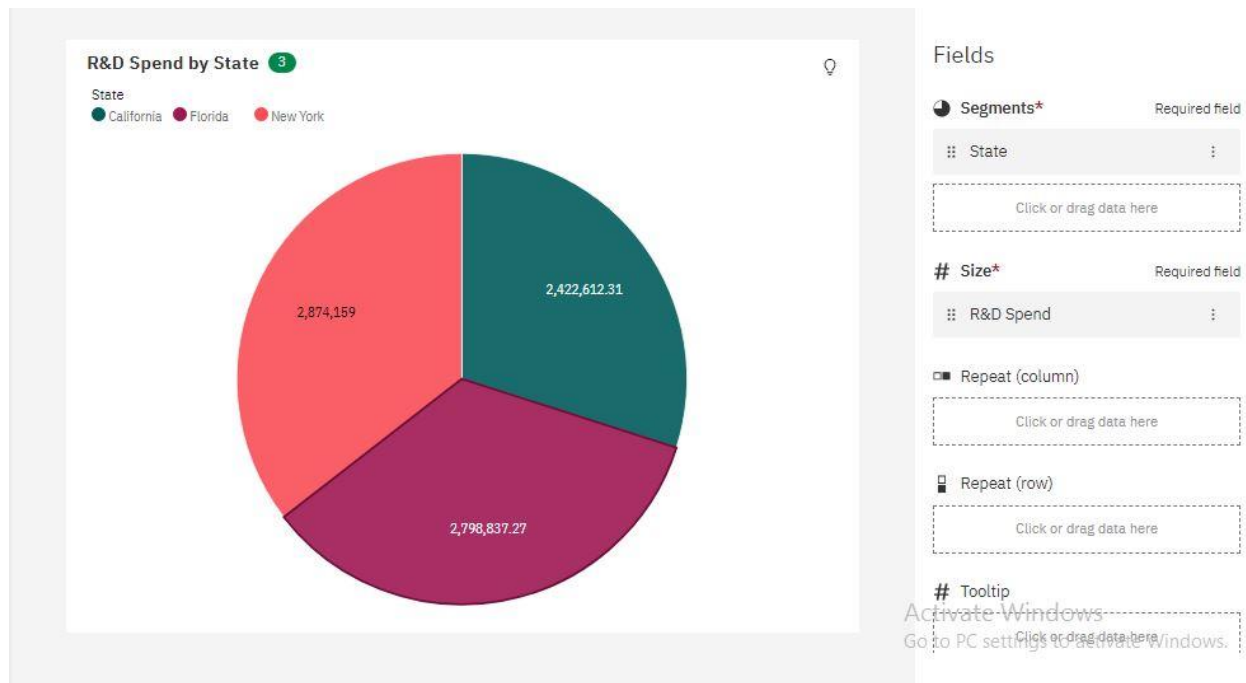
### 3. Visualizing the given dataset



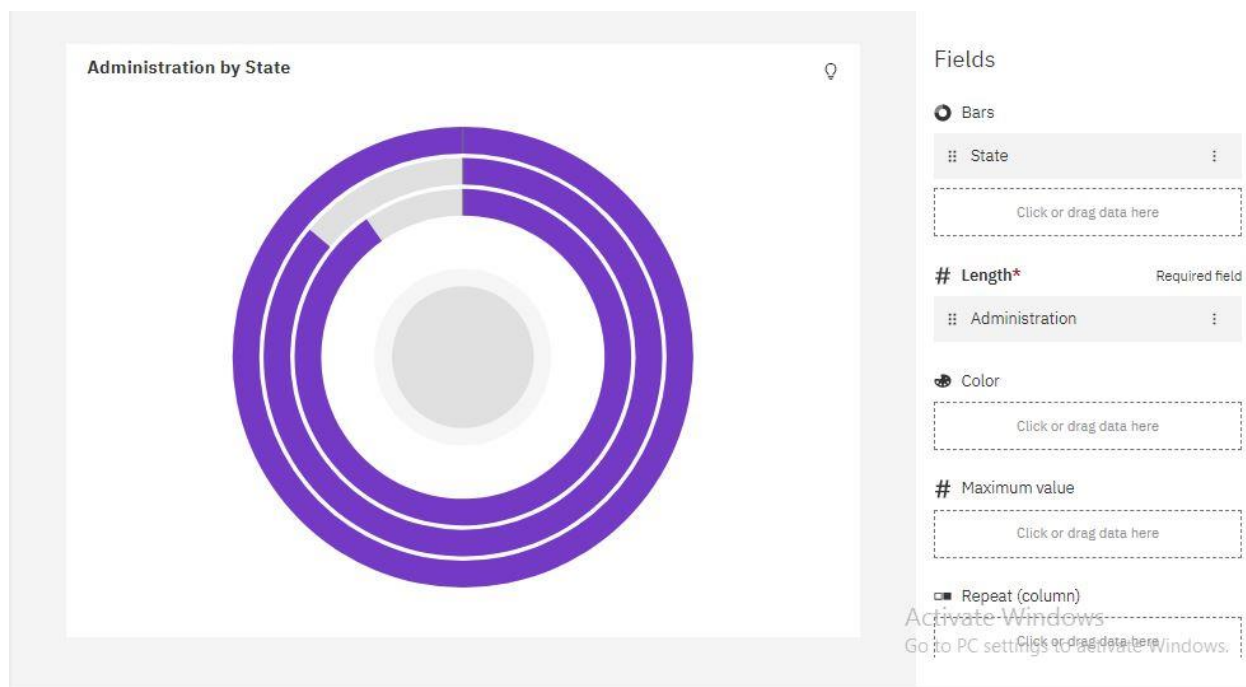
### 4. Bar chart (Profit by State)



## 5. Pie Chart(R&D Spend by State)



## 6. Radial Chart (Administration by State)



## 7. Area Chart (Marketing Spend by State)

