Assignment -1

Assignment Date	09 September 2022
Student Name	Mohammed Asik T
Student Roll Number	420819104011
Maximum Marks	2 Marks

QUESTIONS :

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

Cards

Profit by R&D Spend

1

Administration b...ints for Profit

2

Data relationships

Administration by Profit with points for Profit [4]

Profit (Sum) vs Administration (Sum)

Y-axis: 0, 100,000, 200,000, 300,000, 400,000, 500,000
X-axis: 50,000, 100,000, 150,000, 200,000, 250,000, 300,000, 350,000, 400,000, 450,000, 500,000

Details

The total of **Profit** is over 12 million.

Profit and **Administration** have a weak positive linear association, being Profit = 51224 + 0.7555 * Administration

---

Cards

2

Marketing Spend ...ints for Profit

3

Profit by State

Data relationships

Marketing Spend by Profit with points for Profit [4]

Marketing Spend (...
0 — 1,000,000

Profit (Sum) vs Marketing Spend (Sum)

Y-axis: 0, 100,000, 200,000, 300,000, 400,000, 500,000
X-axis: 0, 100,000, 300,000, 500,000, 700,000, 900,000

Marketing Spend (Sum) [1]

Details

The total of **Profit** is over 12 million.

Profit is unusually low when **Marketing Spend** is 594,229.

Profit and **Marketing Spend** have a medium positive linear association, being Profit = 63039 + 0.3753 * Marketing Spend

Cards

Profit by State

Profit by State

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.

State: California, Florida, New York

Profit (Sum) — 0, 500,000, 1,500,000, 2,500,000, 3,500,000, 4,500,000

Profit

Data relationships

Cards

Profit

0   20   40   60   80   100

Predictive strength

Properties

Value axis show zero origin

Profit by R&D Spend (Group) and Marketing Spend (Group)

Profit (Average)

48,799.99   191,701.48

| | 78630.683 to < 157261.367 | 235892.050 to < 314522.733 | 393153.417 an... |
| less than 78630.683 | 157261.367 to < 235892.050 | 314522.733 to < 393153.417 | |

Add +

Profit and Stat...pend and State

Data relationships

Analytics ∿   Details ╚   Filters ▽   Fields ▦   Properties ⇄

Create +   ∧ 6/6 ∨   Column ▥   Related ▦   ⚲ ⌖ ▮ ▦   Sync ∨   🗑

Cards

Profit

5

Profit and Stat...pend and State

Data relationships

Chart A

Profit and State by State

Column
● State (Count)

Line
● Profit (Sum)

State

Chart B

Profit by R&D Spend, Administration, Marketing Spend and State

| | 20,229.59... | 38,558.51... | 61,994.48... | 75,328.87... | 93,863.75... | 130,298.1... |
| 11... | 1,315.46 ... | 27,892.92... | 46,426.07... | 66,051.52... | 78,389.47... | 114,523.6... | 144... |

Summary	Chart A : State ∨	Chart B : Profit	Combined
Chart percent of data set	100%	100%	-
Average	36	218,938.68	-
Chart total	108	12,260,566.08	-