

HX8001

**PROFESSIONAL READINESS FOR
INNOVATION,EMPLOYMENTABILITY AND
ENTREPRENEURSHIP**

ASSIGNMENT-1

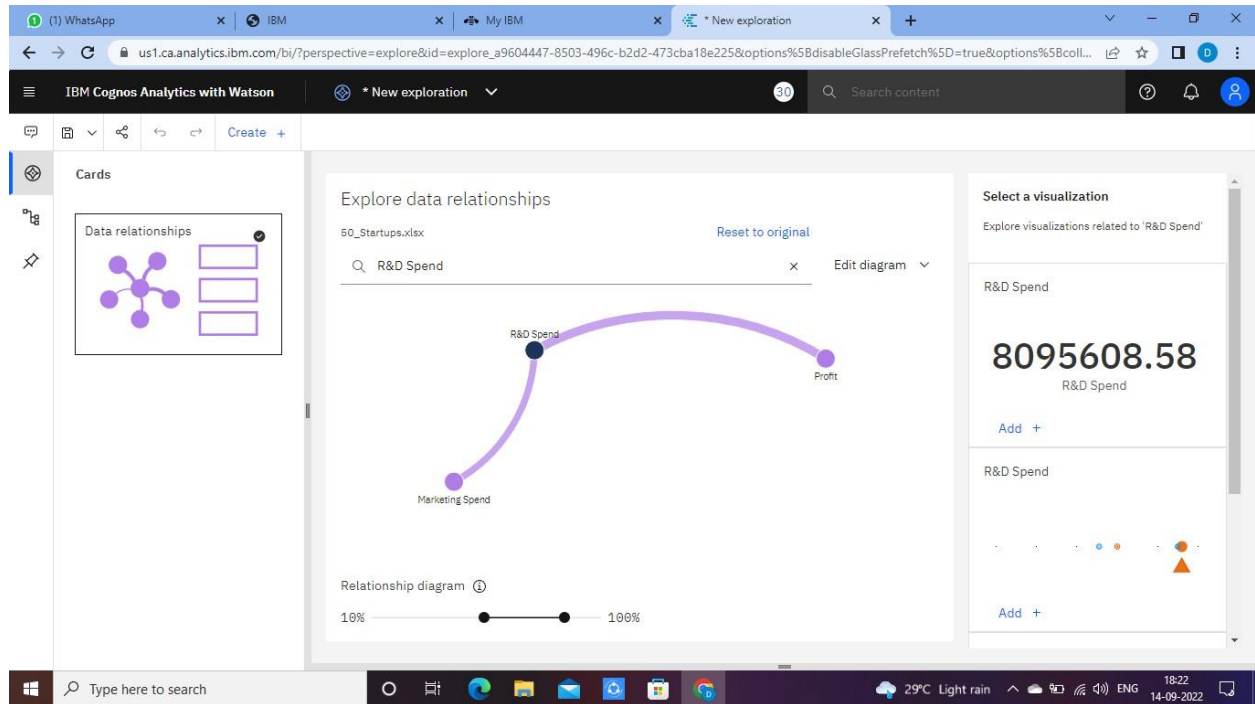
TEAM ID: PNT2022TMID42779

PROJECT TITLE: ESTIMATE THE CROP YIELD USING DATA ANALYTIC

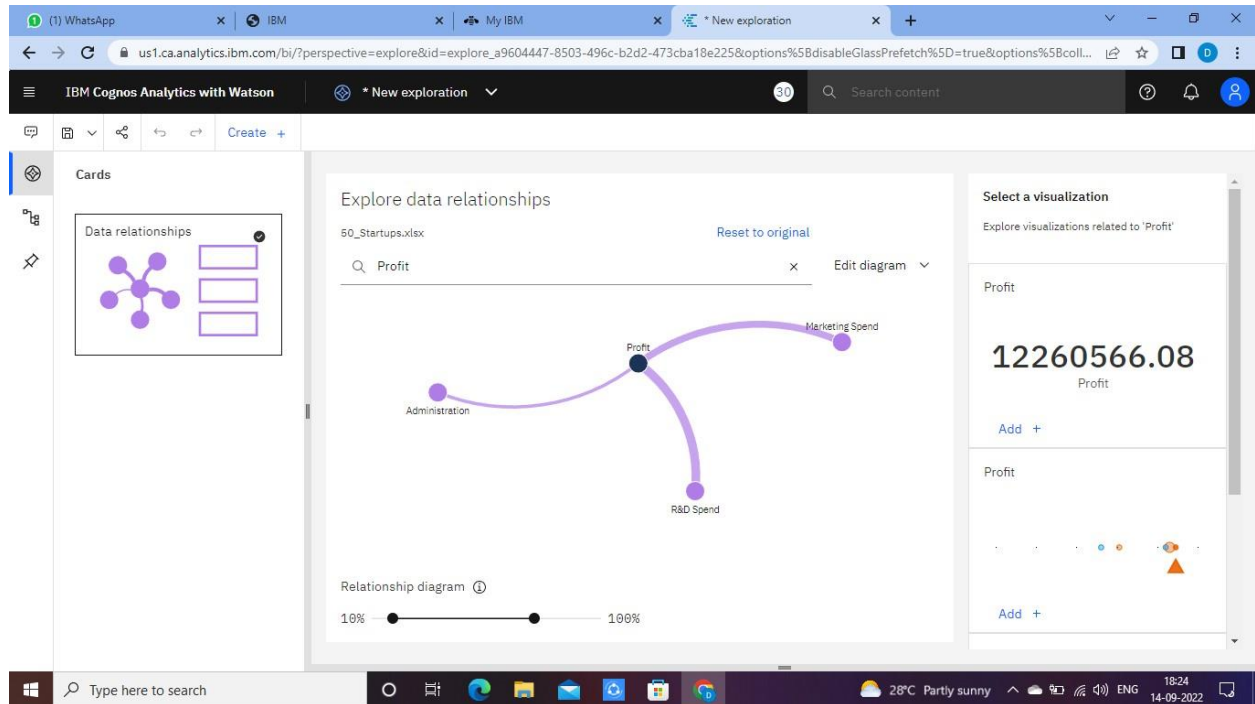
NAME : DHINESH K

Explore data relationship:

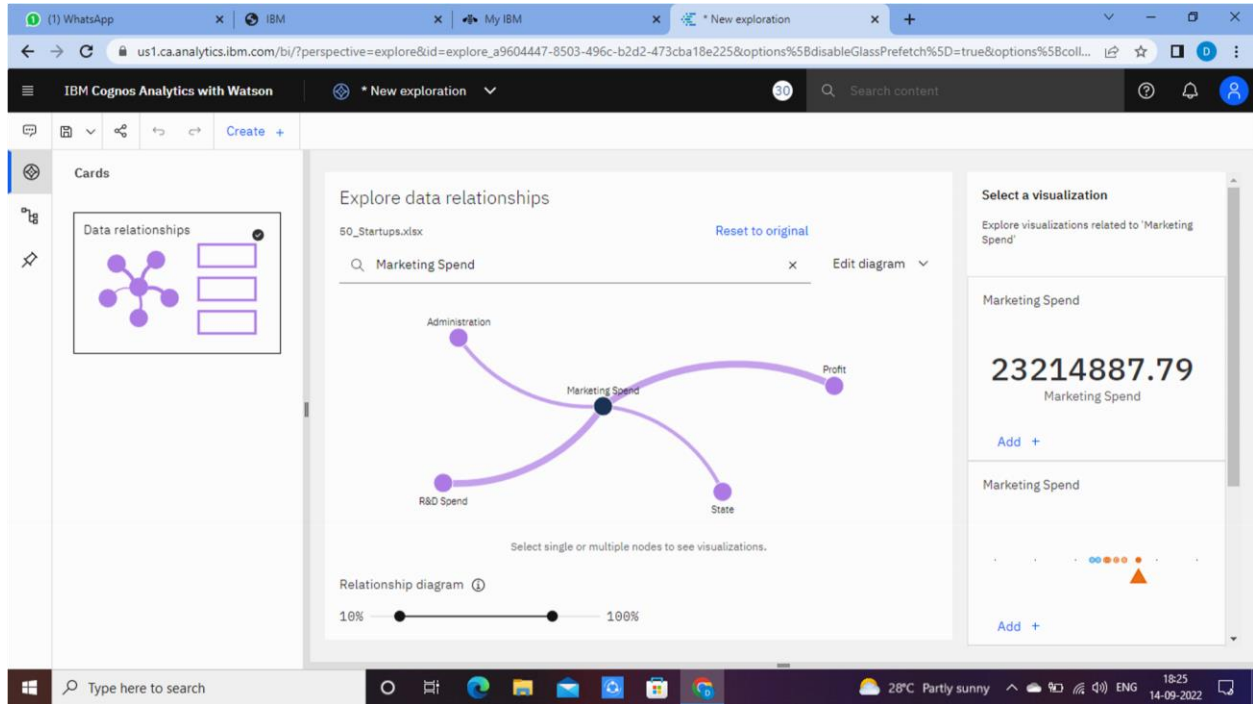
R&D Spend



Profit

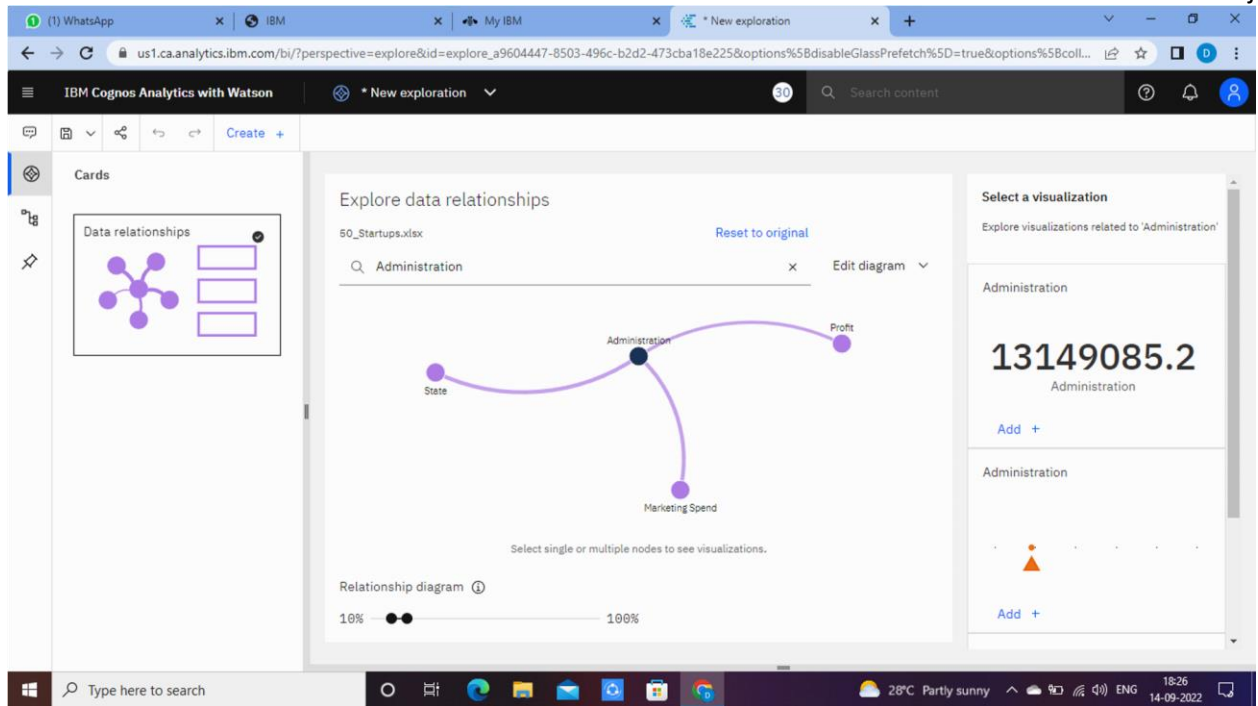


Marketing spend



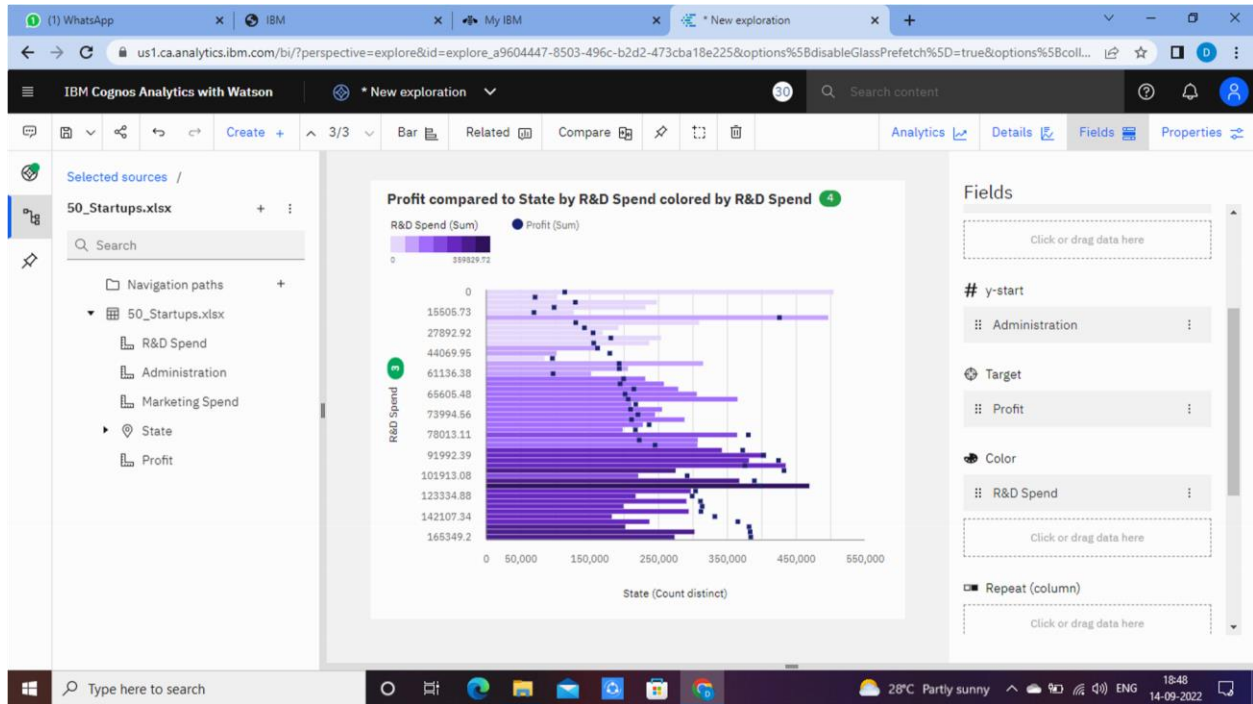
Administration

hj

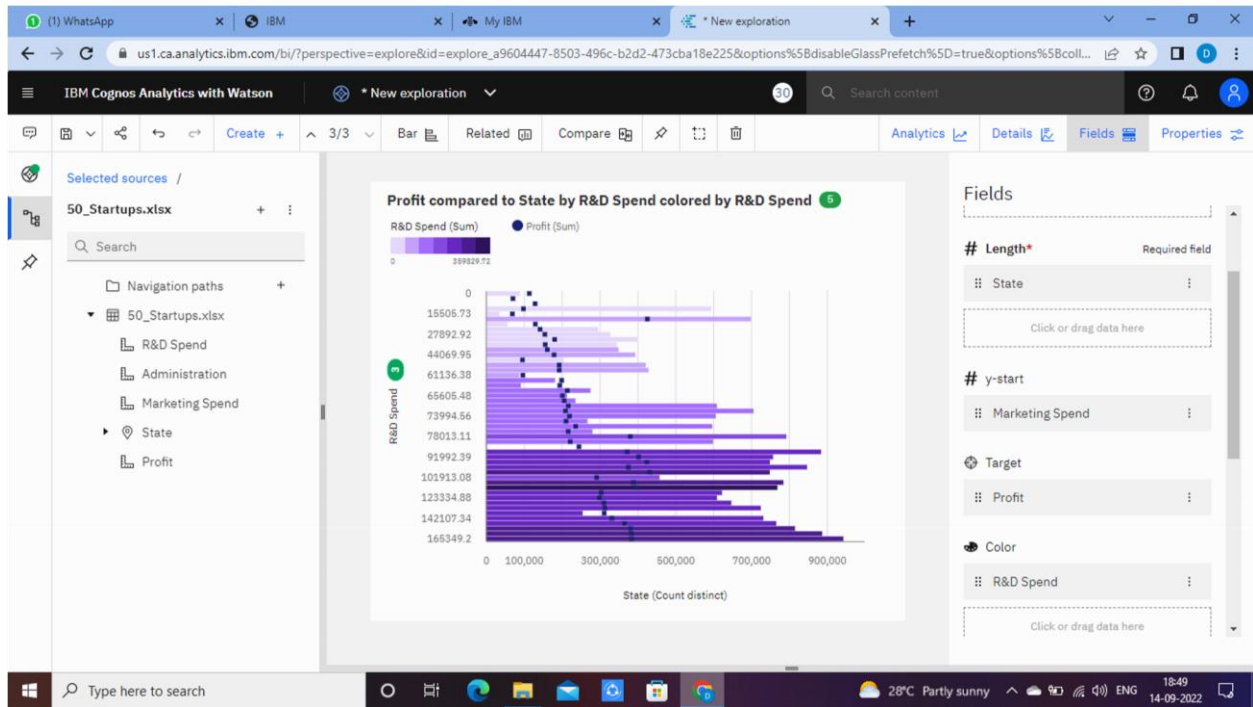


Bar diagram :

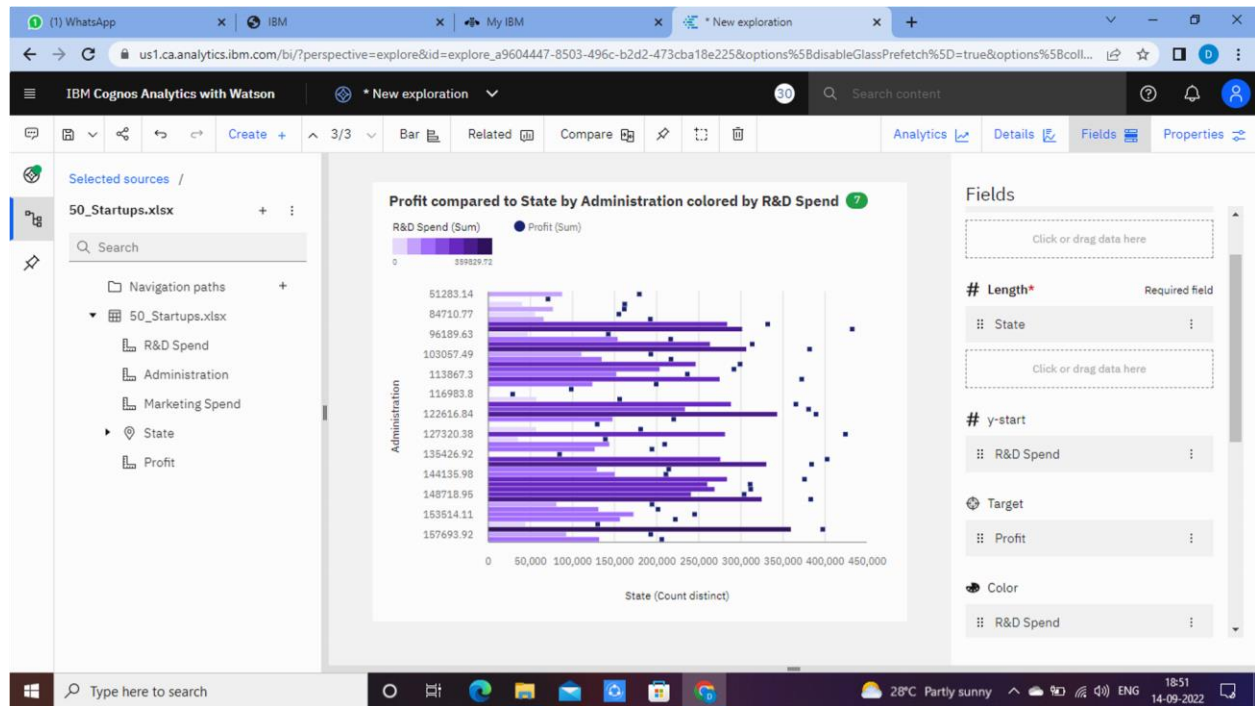
Profit compared to state by R&D spend colored by R&D spend



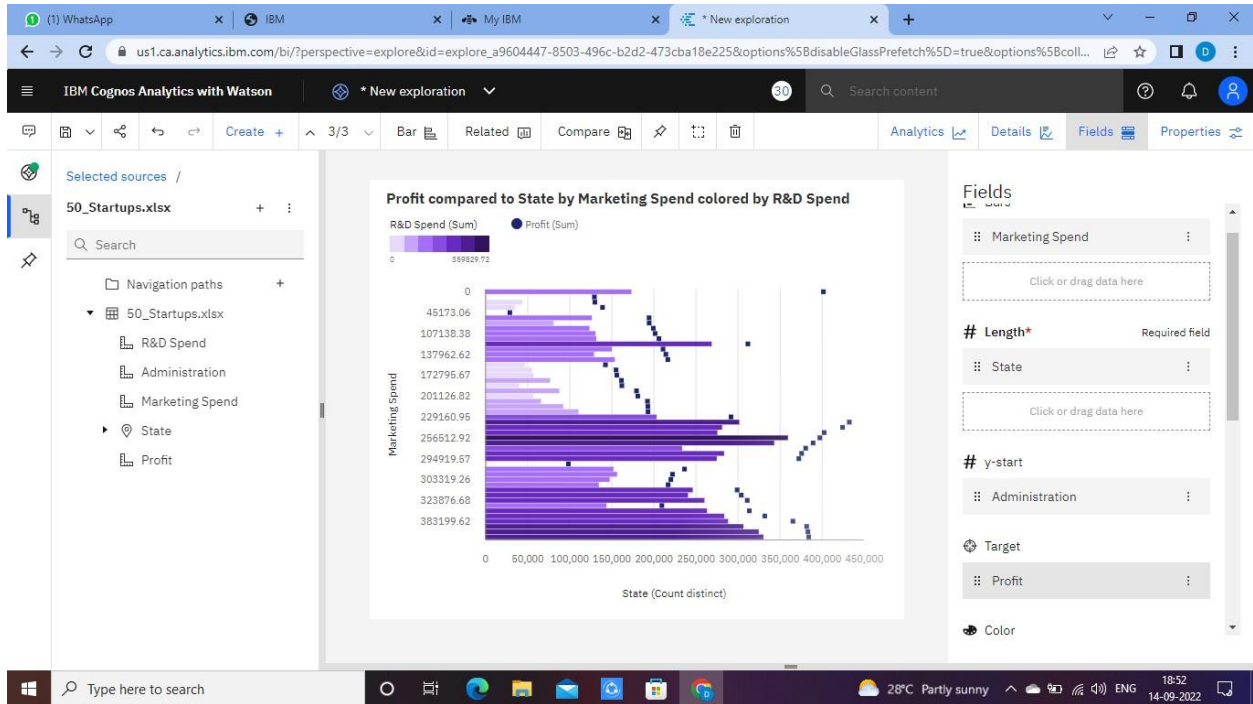
Profit compared to state by R&D Spend colored by R&D spend



Profit compared to state by administration colored by R&D spend

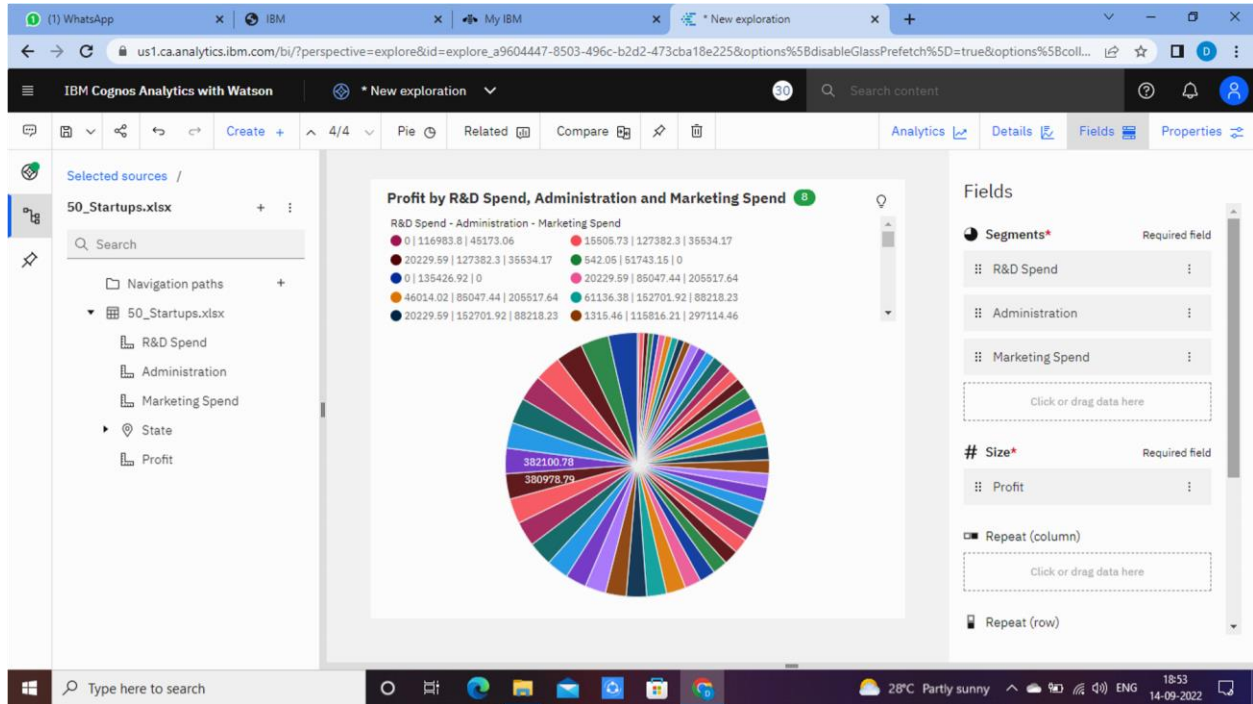


Profit compared to state by marketing spend colored by R&D spend



Pie chart :

Profit by R&D spend ,administration and marketing spend



Cross tab:

Profit for R&D spend and administration

The screenshot displays the IBM Cognos Analytics web interface. The main report area shows a cross-tab titled "Profit for R&D Spend and Administration". The report is structured with "Profit" on the vertical axis and "R&D Spend" and "Administration" on the horizontal axis. The data is presented in a table format with rows for various profit values and columns for the two categories. The interface includes a left-hand navigation pane with a tree view showing the data source "50_Startups.xlsx" and its dimensions: "R&D Spend", "Administration", "Marketing Spend", "State", and "Profit". The right-hand pane shows the "Fields" section with "Columns" and "Rows" sections, where "R&D Spend" and "Administration" are assigned to the columns and "Profit" is assigned to the rows. The bottom of the screen shows the Windows taskbar with the date and time "18:56 14-09-2022".

| Profit | 0 | 542.05 | 1000.23 | 1315.46 |
|----------|------------|------------|------------|---------|
| 51283.14 | (no value) | (no value) | (no value) | (r |
| 51743.15 | (no value) | 71346.82 | (no value) | (r |
| 65947.93 | (no value) | (no value) | (no value) | (r |
| 82982.09 | (no value) | (no value) | (no value) | (r |
| 84710.77 | (no value) | (no value) | (no value) | (r |
| 85047.44 | (no value) | (no value) | (no value) | (r |
| 91391.77 | (no value) | (no value) | (no value) | (r |
| 91790.61 | (no value) | (no value) | (no value) | (r |
| 96189.63 | (no value) | (no value) | (no value) | (r |
| 99281.34 | (no value) | (no value) | (no value) | (r |
| 99814.71 | (no value) | (no value) | (no value) | (r |

Profit for R&D spend and marketing spend

The screenshot displays the IBM Cognos Analytics interface. On the left, the 'Selected sources' pane shows a file named '50_Startups.xlsx' with a navigation tree containing 'R&D Spend', 'Administration', 'Marketing Spend', 'State', and 'Profit'. The main workspace features a pivot table titled 'Profit for R&D Spend and Marketing Spend'. The table has 'Profit' as the row field and 'R&D Spend' and 'Marketing Spend' as column fields. The data is summarized in a table with four columns representing different profit levels: 0, 542.05, 1000.23, and 1315.46. The rows represent different R&D spend levels. The 'Fields' pane on the right shows the configuration: 'R&D Spend' in Columns, 'Marketing Spend' in Rows, and 'Profit' in Values.

| Profit | 0 | 542.05 | 1000.23 | 1315.46 |
|-----------|------------|------------|------------|---------|
| 0 | 85119.46 | 71346.82 | (no value) | (r |
| 1903.93 | (no value) | (no value) | 129852.16 | (r |
| 28334.72 | (no value) | (no value) | (no value) | (r |
| 35534.17 | (no value) | (no value) | (no value) | (r |
| 45173.06 | 29362.8 | (no value) | (no value) | (r |
| 46085.25 | (no value) | (no value) | (no value) | (r |
| 88218.23 | (no value) | (no value) | (no value) | (r |
| 91131.24 | (no value) | (no value) | (no value) | (r |
| 107138.38 | (no value) | (no value) | (no value) | (r |
| 118148.2 | (no value) | (no value) | (no value) | (r |
| 127716.82 | (no value) | (no value) | (no value) | (r |

Profit for R&D spend and State

The screenshot displays the IBM Cognos Analytics web interface. The main view is a pivot table titled "Profit for R&D Spend and State". The table has "Profit" as the column header and "State" as the row header. The data is organized into a grid with columns for "0", "542.05", "1000.23", and "1315.46". The rows are "California", "Florida", "New York", and "Summary".

| Profit | 0 | 542.05 | 1000.23 | 1315.46 |
|------------|------------|------------|------------|------------|
| California | 114482.26 | (no value) | (no value) | (no value) |
| Florida | (no value) | (no value) | (no value) | 9852.16 |
| New York | (no value) | 71346.82 | 129852.16 | (no value) |
| Summary | 114482.26 | 71346.82 | 129852.16 | 9852.16 |

The interface includes a left sidebar with "Selected sources" showing a file named "50_Startups.xlsx" and a navigation tree with categories like "Navigation paths", "50_Startups.xlsx", "R&D Spend", "Administration", "Marketing Spend", "State", and "Profit". The right sidebar shows the "Fields" panel with "Columns" (R&D Spend), "Rows" (State), and "# Values*" (Profit). The bottom of the screen shows a Windows taskbar with the date "14-09-2022" and time "18:59".

Profit for administration and R&D spend

IBM Cognos Analytics with Watson

Selected sources / 50_Startups.xlsx

Navigation paths

- 50_Startups.xlsx
 - R&D Spend
 - Administration
 - Marketing Spend
 - State
 - Profit

Profit for Administration and R&D Spend

| Profit | 51283.14 | 51743.15 | 65947.93 | 82982.09 |
|----------|------------|------------|------------|------------|
| 0 | (no value) | (no value) | (no value) | (no value) |
| 542.05 | (no value) | 71346.82 | (no value) | (no value) |
| 1000.23 | (no value) | (no value) | (no value) | (no value) |
| 1315.46 | (no value) | (no value) | (no value) | (no value) |
| 15505.73 | (no value) | (no value) | (no value) | (no value) |
| 20229.59 | (no value) | (no value) | 162458.12 | (no value) |
| 22177.74 | (no value) | (no value) | (no value) | (no value) |
| 23640.93 | (no value) | (no value) | (no value) | (no value) |
| 27892.92 | (no value) | (no value) | (no value) | (no value) |
| 28663.76 | (no value) | (no value) | (no value) | (no value) |
| 28754.33 | (no value) | (no value) | (no value) | (no value) |

Fields

Columns

- Administration

Rows

- R&D Spend

Values* Required field

- Profit

27°C Light rain 19:00 14-09-2022

Profit for state and administration

IBM Cognos Analytics with Watson

Profit for State and Administration

| Profit | California | Florida | New York | Summary |
|----------|------------|------------|------------|-----------|
| 51283.14 | 179898.28 | (no value) | (no value) | 179898.28 |
| 51743.15 | (no value) | (no value) | 71346.82 | 71346.82 |
| 65947.93 | (no value) | (no value) | 162458.12 | 162458.12 |
| 82982.09 | 162011.52 | (no value) | (no value) | 162011.52 |
| 84710.77 | (no value) | 77798.83 | 77798.83 | 155597.66 |
| 85047.44 | (no value) | (no value) | 192959.02 | 192959.02 |
| 91391.77 | (no value) | 332375.88 | (no value) | 332375.88 |
| 91790.61 | 432778.2 | (no value) | (no value) | 432778.2 |
| 96189.63 | 142996.98 | (no value) | (no value) | 142996.98 |
| 99281.34 | (no value) | (no value) | 217104.08 | 217104.08 |
| 99814.71 | (no value) | (no value) | 313982.24 | 313982.24 |

Fields

Columns

State

Rows

Administration

Values*

Profit

Profit for state and R&D spend

The screenshot displays the IBM Cognos Analytics web interface. The main content area features a pivot table titled "Profit for State and R&D Spend". The table has columns for Profit, California, Florida, New York, and Summary. The rows represent different states, with the last row being a summary row. The interface includes a left-hand navigation pane with a tree view showing the data source "50_Startups.xlsx" and its dimensions: "R&D Spend", "Administration", "Marketing Spend", "State", and "Profit". The "State" dimension is currently selected. On the right, the "Fields" pane shows the dimensions being used in the pivot table: "State" for columns, "R&D Spend" for rows, and "Profit" for values. The bottom of the screen shows a Windows taskbar with various application icons and system information.

| Profit | California | Florida | New York | Summary |
|----------|------------|------------|------------|-----------|
| 0 | 114482.26 | (no value) | (no value) | 114482.26 |
| 542.05 | (no value) | (no value) | 71346.82 | 71346.82 |
| 1000.23 | (no value) | (no value) | 129852.16 | 129852.16 |
| 1315.46 | (no value) | 98981.5 | (no value) | 98981.5 |
| 15505.73 | (no value) | (no value) | 69758.98 | 69758.98 |
| 20229.59 | (no value) | (no value) | 426180.17 | 426180.17 |
| 22177.74 | 130400.66 | (no value) | (no value) | 130400.66 |
| 23640.93 | 142996.98 | (no value) | (no value) | 142996.98 |
| 27892.92 | (no value) | 77798.83 | 77798.83 | 155597.66 |
| 28663.76 | (no value) | 181416.38 | (no value) | 181416.38 |
| 28754.33 | 156479.82 | (no value) | (no value) | 156479.82 |

Profit for state and marketing spend

The screenshot displays the IBM Cognos Analytics interface. On the left, the 'Selected sources' pane shows a file named '50_Startups.xlsx' with a tree view containing 'Navigation paths', '50_Startups.xlsx', 'R&D Spend', 'Administration', 'Marketing Spend', 'State', and 'Profit'. The main workspace features a pivot table titled 'Profit for State and Marketing Spend'. The table has columns for 'Profit', 'California', 'Florida', 'New York', and 'Summary'. The rows list various profit values, with some cells containing '(no value)'. On the right, the 'Fields' pane shows 'Columns' with 'State' and 'Rows' with 'Marketing Spend'. Below these, there is a section for '# Values*' with 'Profit' listed as a required field. The bottom of the screen shows a Windows taskbar with the search bar and system tray.

| Profit | California | Florida | New York | Summary |
|-----------|------------|------------|------------|-----------|
| 0 | 85119.46 | (no value) | 316900.54 | |
| 1903.93 | (no value) | (no value) | 129852.16 | 129852.16 |
| 28334.72 | 130400.66 | (no value) | (no value) | 130400.66 |
| 35534.17 | (no value) | (no value) | 139517.96 | 139517.96 |
| 45173.06 | 29362.8 | (no value) | (no value) | 29362.8 |
| 46085.25 | 194855.68 | (no value) | (no value) | 194855.68 |
| 88218.23 | (no value) | (no value) | 194967.12 | 194967.12 |
| 91131.24 | (no value) | 99937.59 | 99937.59 | 199875.18 |
| 107136.38 | (no value) | (no value) | 202009.28 | 202009.28 |
| 118148.2 | (no value) | 206564.76 | (no value) | 206564.76 |
| 127716.82 | 312245.02 | (no value) | (no value) | 312245.02 |