

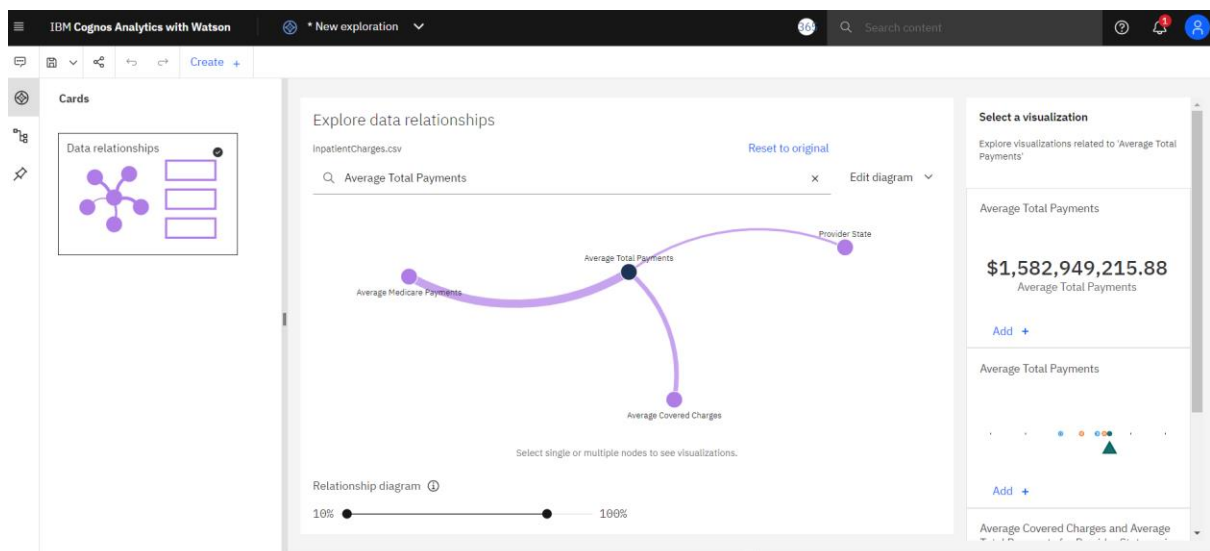
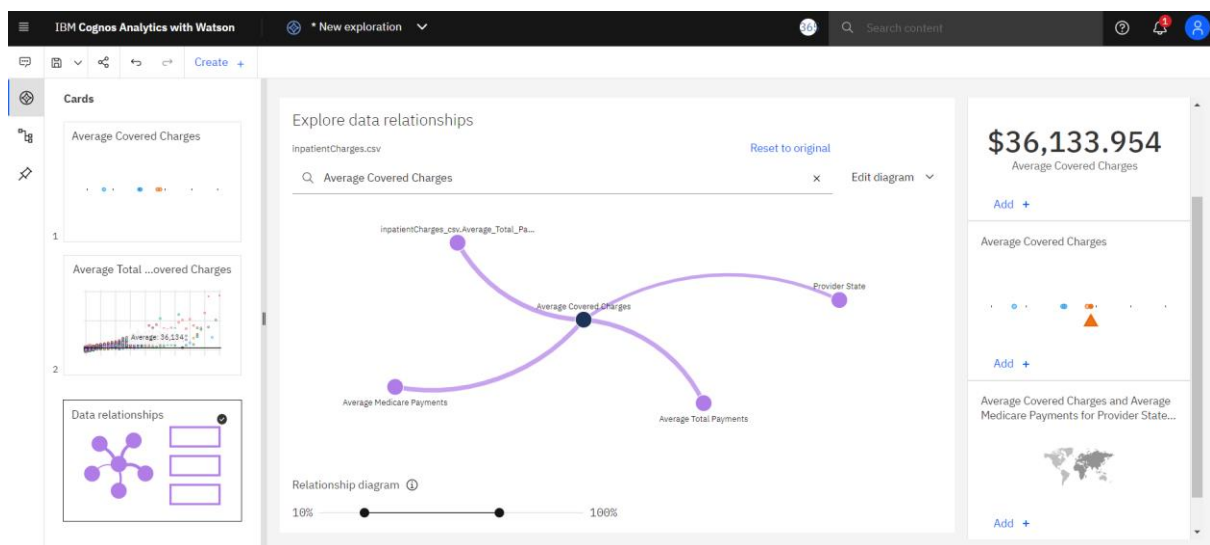
Analytics for Hospitals Health-Care Data

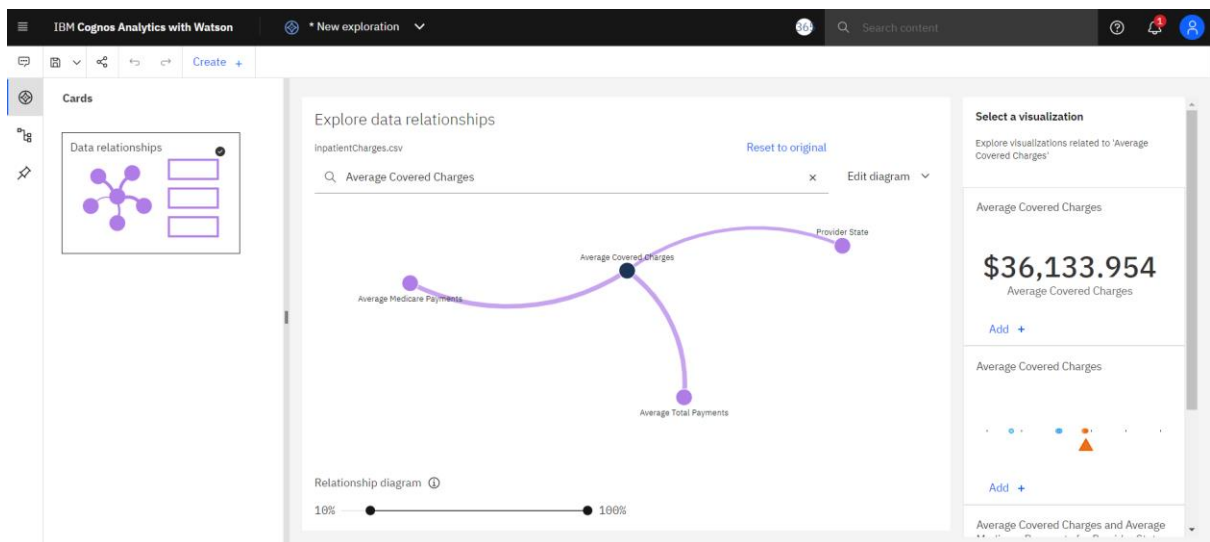
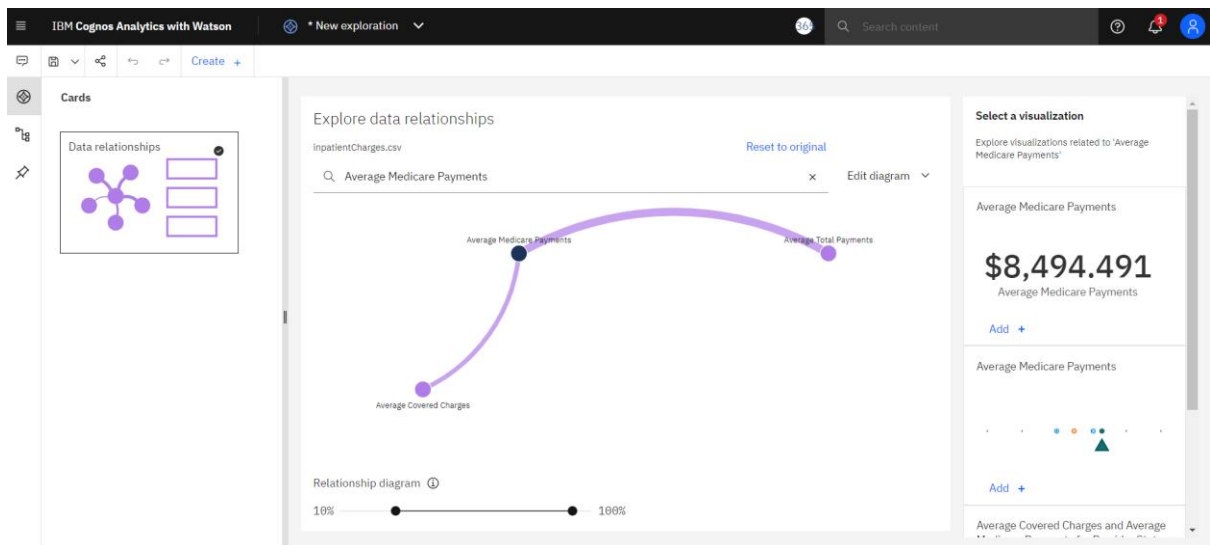
Assignment -1

ROLL NO:737819CSR105

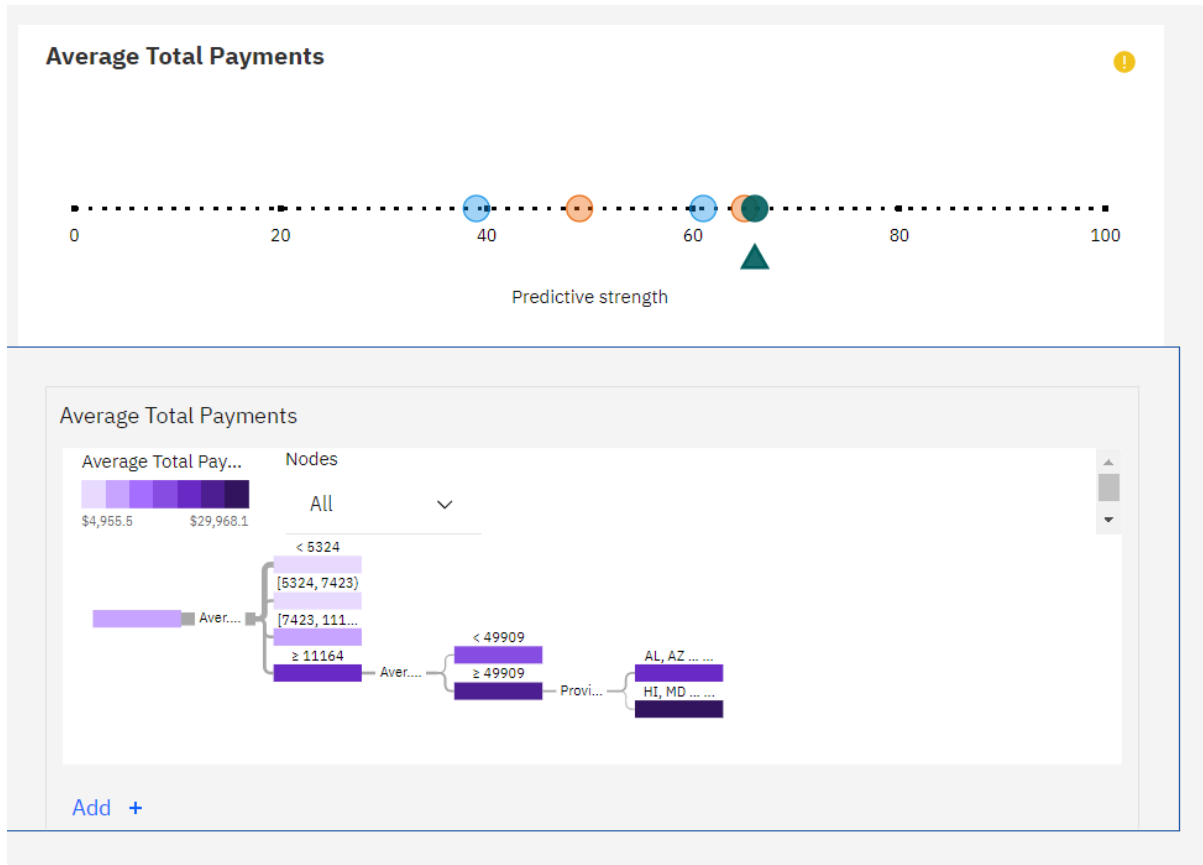
Data Visualization

Data relationship :

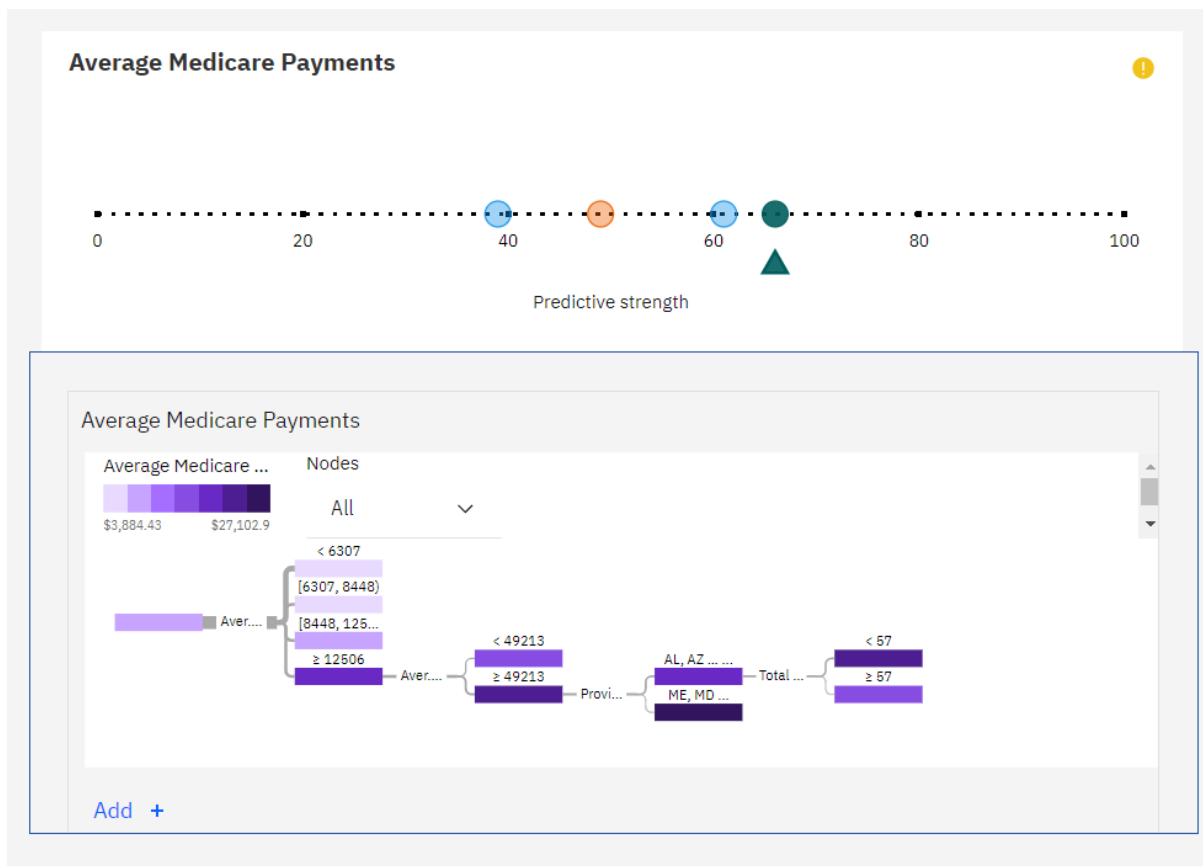




Advanced data analytics (Driver analysis)

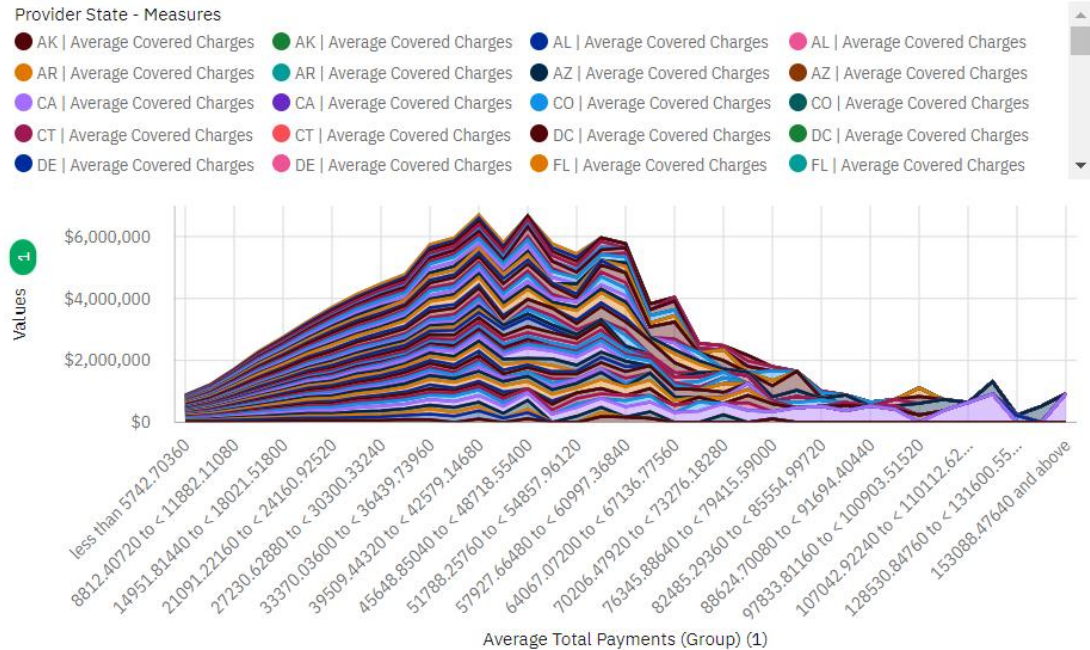


- **Average Total Payments, Average Covered Charges, Provider State, and Total Discharges** predict **Average Medicare Payments** with a strength of 66.8%.
- **Average Total Payments** is the most significant predictor of **Average Medicare Payments** being three times better than any other field.



- **Average Medicare Payments, Average Covered Charges, and Provider State** predict **Average Total Payments** with a strength of 66.6%.
- **Average Medicare Payments** is the most significant predictor of **Average Total Payments** being two times better than any other field.

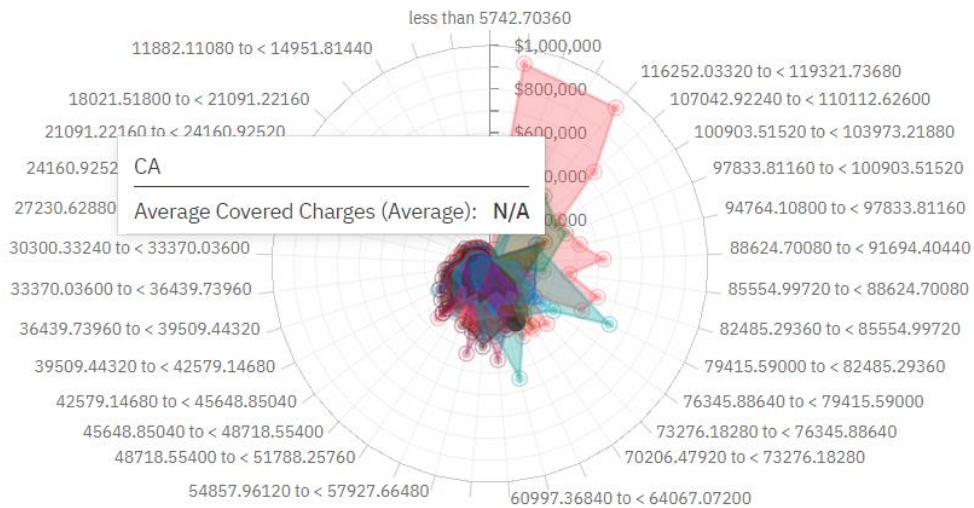
Average Covered Charges and Average Covered Charges by Average Total Payments (Group) (1) colored by Provider State



- The total number of results for **Average Covered Charges**, across all **Average Total Payments (Group) (1)**, is over 163 thousand.
- The average values of **Average Covered Charges** range from nearly 5500, occurring when **Average Total Payments (Group) (1)** is less than 5742.70360, to over 929 thousand, when **Average Total Payments (Group) (1)** is 153088.47640 and above.
- The most common values of **Average Total Payments (Group) (1)** are less than 5742.70360 (31.9 %) and 5742.70360 to < 8812.40720 (30.4 %), together occurring over 101 thousand times, which is 62.2 % of the total.

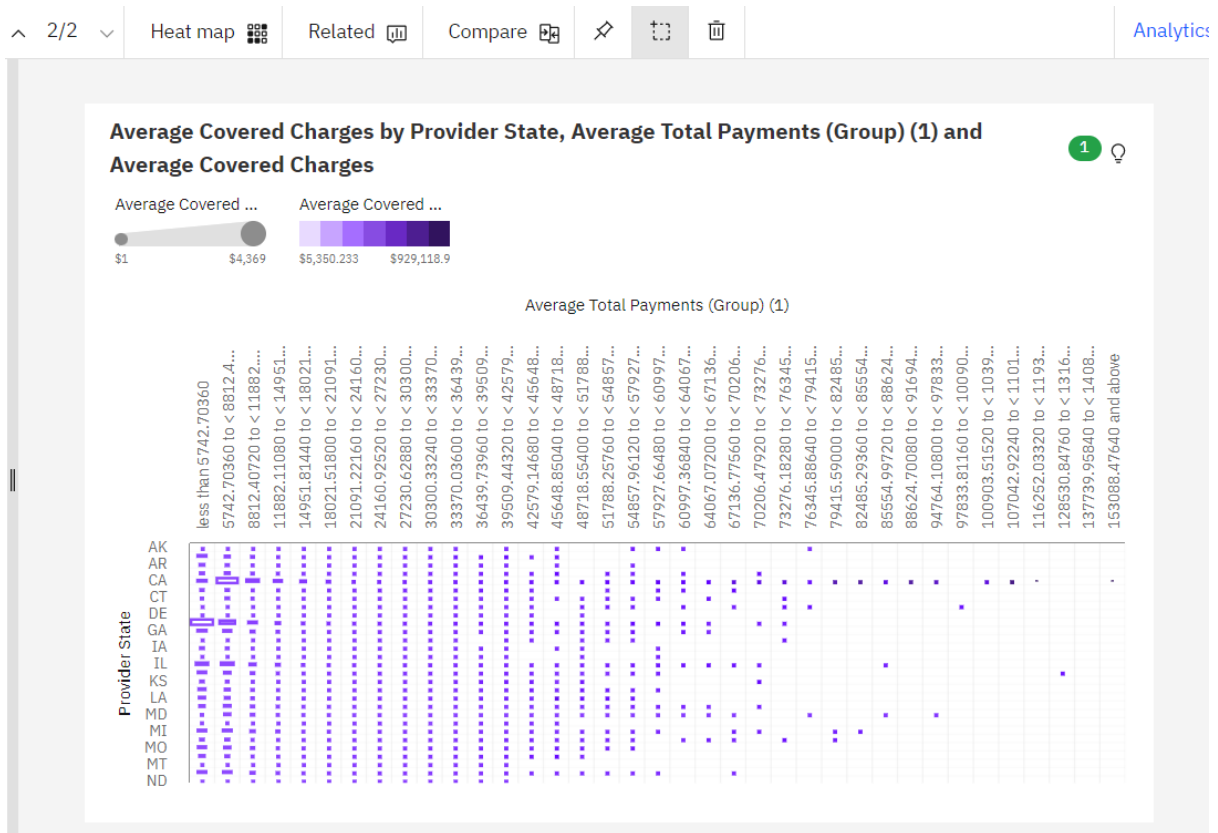
Average Covered Charges by Average Total Payments (Group) (1) colored by Provider State

Provider State



The total number of results for **Average Covered Charges** is 163,065.
The average of **Average Covered Charges** is over 36 thousand.

DATA COMPARISON USING HEATMAP



- The most common values of **Provider State** are CA (8 %), TX (7.3 %), and FL (6.8 %), together occurring over 36 thousand times, which is 22.1 % of the total.
- The most common values of **Average Total Payments (Group) (1)** are less than 5742.70360 (31.9 %) and 5742.70360 to < 8812.40720 (30.4 %), together occurring over 101 thousand times, which is 62.2 % of the total.
- **Average Total Payments (Group) (1)** moderately affects **Average Covered Charges** (60%).
- **Average Covered Charges** is unusually high when **Average Total Payments (Group) (1)** is 153088.47640 and above.
- **Provider State** weakly affects **Average Covered Charges** (14%).
- **Average Covered Charges** is most unusual when **Provider State** is CA, NJ, NV and MD.
- Across all values of **Provider State** and **Average Total Payments (Group) (1)**, the average of **Average Covered Charges** is over 36 thousand.

- The average values of **Average Covered Charges** range from almost 5500 to over 929 thousand.
- **Provider State** and **Average Total Payments (Group) (1)** strongly affect **Average Covered Charges** (77%).
- **Average Covered Charges** is unusually high when the combinations of **Provider State** and **Average Total Payments (Group) (1)** are CA and 153088.47640 and above and CA and 116252.03320 to < 119321.73680.
- The **Average Total Payments (Group) (1)** and **Average Covered Charges** relationship is weakly influenced by **Provider State**.

DATA COMPARISON USING HEATMAP AND BAR CHART

