

Act report

Showing visualization and the results:

- **Scatter plot**

1. Scatter plot between 'timestamp_first_active' and 'secs_elapse':
This scatter plot shows separated lines and have no relations.
2. Scatter plot between age and 'secs_elapsed':
This scatter plot shows continuous lines and have no relations.
3. Scatter plot between 'signup_flow' and 'secs_elapsed':
This scatter plot shows intermittent library lines separated spread and have no relations.
4. Scatter plot between 'timestamp_first_active' and age:
This scatter plot shows continuous domain lines and separated distributed and have no relations.
5. Scatter plot between 'timestamp_first_active' and 'signup_flow':
This scatter plot shows dashed transverse lines and have no relations.

- **Histogram plot:**

1. Histogram plot for age:
2. This histogram showing the most number of participant that login to the search browsers are from the age segment which start from (46:48).
3. Histogram plot for 'secs_elapsed':
4. This histogram showing the period between $(0: 0.5) \cdot 10^7$ which have the biggest frequency.
5. Histogram plot for 'timestamp_first_active':

6. This histogram showing the period between $(5.5:6.5) \times 10^8 + 2014 \times 10^{13}$ which have the biggest frequency.
7. Histogram plot for age:
8. This histogram showing the period between (45:49) which have the biggest frequency.

- **Box plot:**

1. Box plot for 'secs_elapsed' showing five number summary :

Min = 0

Q1 = 3.993895×10^5

Q2 (Median) = 1.084728×10^6

Q3 = 2.301022×10^6

Max = 2.724965×10^7

Range = 2.724965×10^7

Interquartile range = 1.9016325×10^6 .

2. Box plot for 'timestamp_first_active' showing five number summary :

Min = 2.014010×10^{13}

Q1 = 2.014023×10^{13}

Q2 (Median) = 2.014042×10^{13}

Q3 = 2.014052×10^{13}

Max = 2.014063×10^{13}

Range = 53

Interquartile range = 40

3. Box plot for age showing five number summary :

Min = 15

Q1 = 28

Q2 (Median) = 34

$$Q3 = 47$$

$$\text{Max} = 49$$

$$\text{Range} = 34$$

$$\text{Interquartile range} = 19$$

4. Box plot for 'signup_flow' showing five number summary :

$$\text{Min} = 0$$

$$Q1 = 0$$

$$Q2 (\text{Median}) = 0$$

$$Q3 = 0$$

$$\text{Max} = 25$$

$$\text{Range} = 25$$

$$\text{Interquartile range} = 0$$