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The following are the steps used to create visualizations for this assignment.

**Top 10 states with the largest Dog population**

1. Connected the data source to tableau

2. Added the location as column

3. Added the Dog population as rows with measure as sum

4. Selected the bar chart for visualization

**Top 10 states with the largest cat population**

1. Connected the data source to tableau

2. Added the location as column

3. Added the Cat population as rows with measure as sum

4. Selected the bar chart for visualization

5. Selected the mark as circle

**States that favor dogs over cats**

1. Added generated longitude as columns

2. Added generated latitude as rows

3. Selected map from the show me

4. Added location column from the data source to the map and selected **text** as mark

5. Created a calculated field named calculation1 with formula **[Dog Owning Households (1000s)] > [Cat Owning Households (in 1000)]**

6. Created a calculated field named calculation2 with formula **[Dog Owning Households (1000s)] = [Cat Owning Households (in 1000)]**

7. Added calculation1 and calculation2 on to the map with their marks as **color**

**Created a dashboard with size 1980 x 1024 with all the above three sheets and exported the image**