Lab Exercise 3 – Using Trendlines, Mapping, and Single Value Commands Description

In this lab exercise, use trendline, iplocation, geostats, geom and addtotals commands—as well as the single-value, choropleth map, and cluster map visualizations.

Steps

Task 1: Display user authentication failures during the last 7 days in a timechart with a trendl ine.

Final Example:



1. Search for failed password attempts on the web server [linux secure] during the last 7 days.

Results Example:



- . Using timechart, count the events for each day and rename this new column as failures.
- 3. Change the visualization to **Line Chart**.



4. Find the trendline of failures using a simple moving average (sma) and name the field as trend.



5. Save your search as report, L3S1

Task: Display the sales count of strategy games per day at Buttercup Games physical sales locations (i.e., not online) during the previous week, and display the sales count and trend for the previous day.

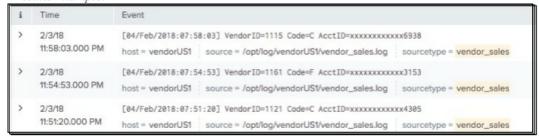
Final Results Example:



6. Search for retail sales [vendor_sales] of strategy games [categoryId="STRATEGY"] during the previous week.

NOTE: Since the <code>categoryId</code> comes from a lookup, the value being matched is case-sensitive. Therefore, be sure to type "STRATEGY" in all uppercase.

Results Example:

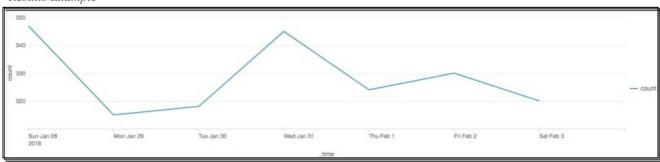


7. Using timechart, count the sales per day of strategy games.

_time ‡	count ‡ /
2018-01-28	347
2018-01-29	315
2018-01-30	318
2018-01-31	345
2018-02-01	324
2018-02-02	330
2018-02-03	320

8. Change the visualization to **Line Chart**.

Results Example



9. Change the visualization to **single value** with the following format:

· Caption: Strategy Games Sales – Previous Day

Show Trend Indicator: Yes
Show Sparkline: Yes
Use Colors Yes
Color By: Trend

Color Mode: Set so that the background shows the color based on the trend (e.g., green

for an increasing trend and red for a decreasing trend)

Results Example:



10. Save your search as report, L3S.

Task 3: Display a choropleth map of United States retail sales during the last 7 Days.

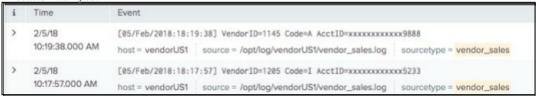
Final Results Example:



11. Search for United States retail sales during the last 7 Days.

Hint: United States vendors have a VendorID less than 3000.

Results Example:



1. Using the chart command, count the events over VendorStateProvince.

Results Example:



- 13. To display the data as a choropleth map, use the geom command to map <code>VendorStateProvince</code> to the <code>geo_us_states KMZ</code> file (<code>geom geo_us_states featureIdField=VendorStateProvince</code>).
- 14. Click the **Visualization** tab.

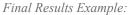


- 15. Change the visualization to use the Choropleth Map.
- 16. Zoom in on the map so you can clearly see the United States.



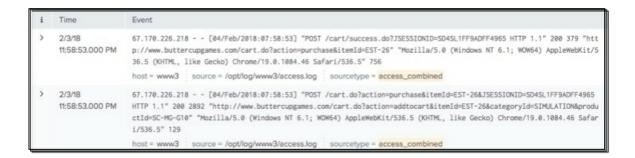
- 17. Click Format.
- 18. Click Tiles.
- 19. Click Populate from preset configuration.
- 0. Click Open Street Map.
- 1. Save your search as report, L3S3.

Task 4: Display a map of online sales by country during the previous week.





. Find successful online purchases [access_combined] during the **Previous week**. **Hint**: You can use the Fields sidebar to narrow your search results. From action, select purchase and from status, 00.



- 3. Use iplocation to extract the location of the purchases based on **clientip**. (You will see the lat and lon fields on the Fields sidebar.)
- 4. To place the events on a map, use geostats to count by clientip. (Note that you may need to manually change the visualization to a Cluster Map,

Results Example:



5. Save your search as report, L3S4.

Task 5: Count the retail sales units sold by country and include a grand total row.

6. Count the number of retail store purchases [vendor_sales] by VendorCountry during the last 4 hours and rename the new column to "Units Sold."



- 7. Use addtotals with the col and row options to display the column total and suppress the row total. Modify the search to include a Total label for the last row of the table.
- 8. Scroll to the bottom of the last page of the results to see the last row of the table, as shown below.



9. Save your search as report, L3S5.