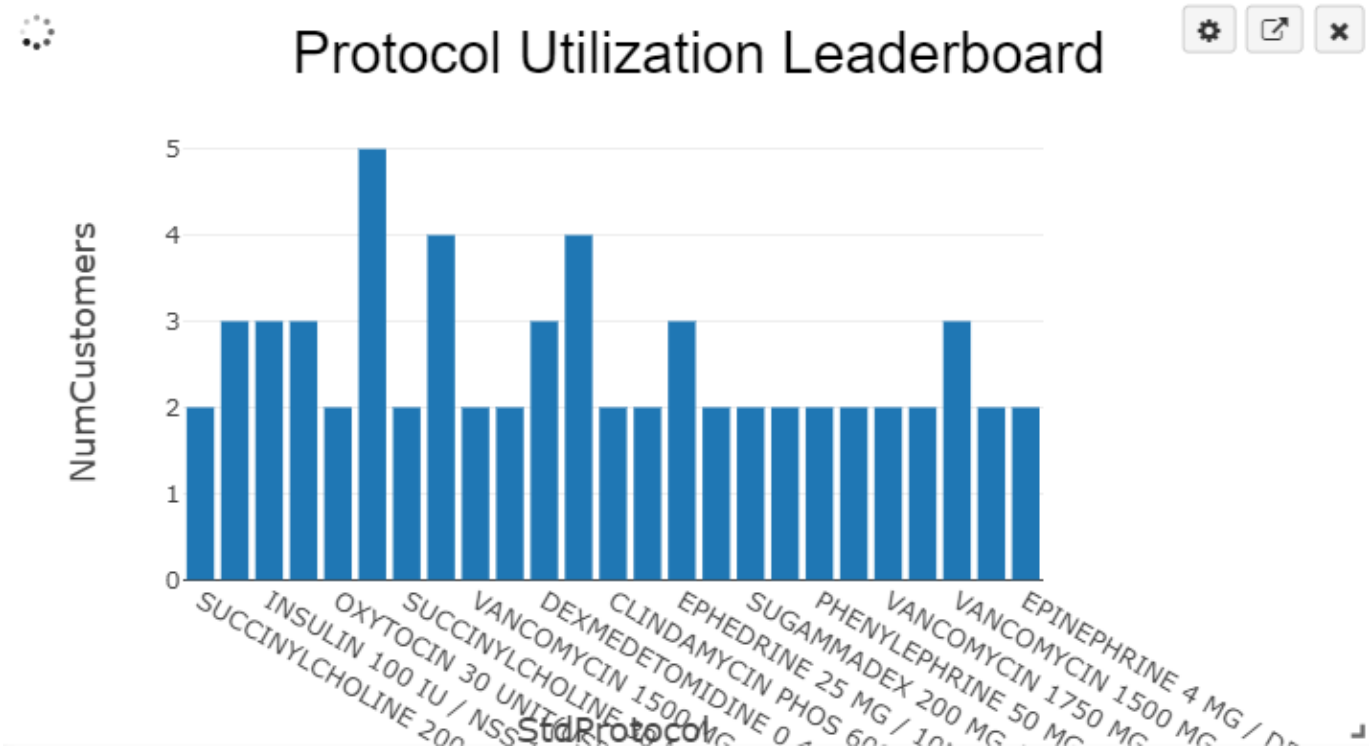
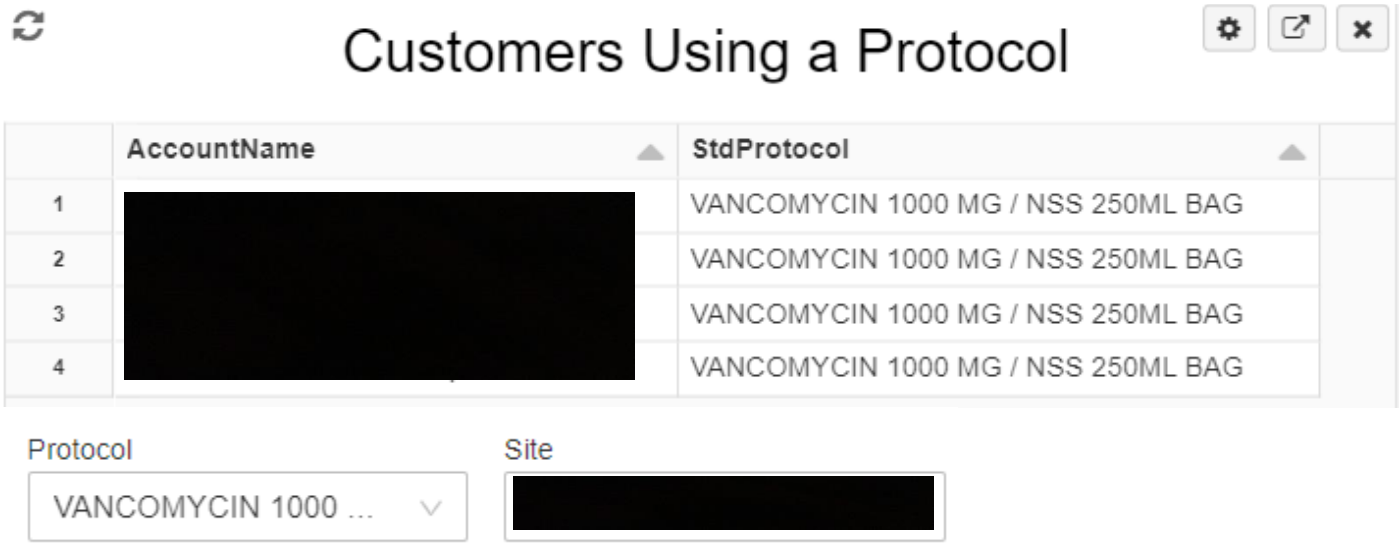
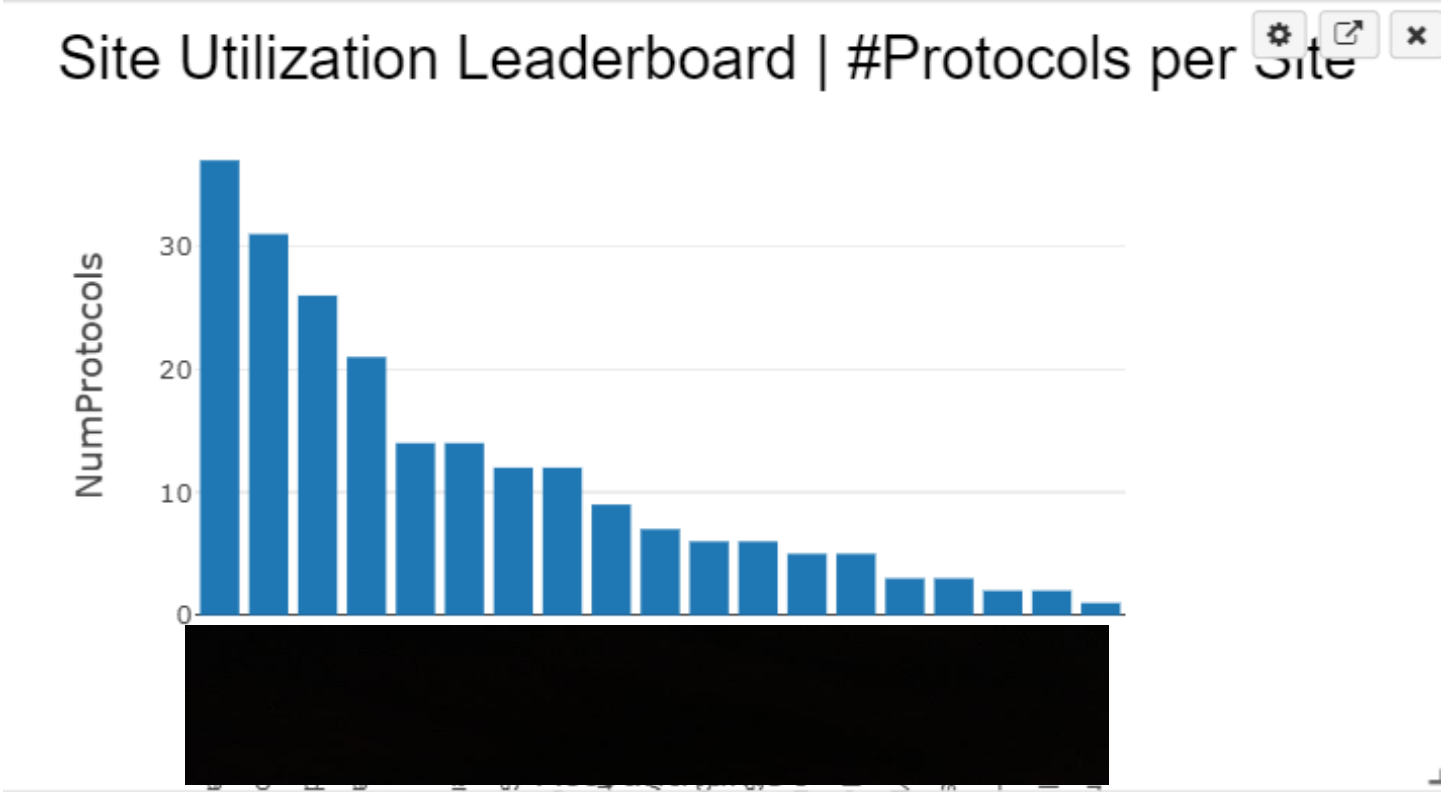
These analyses explore data related to the use of an Omnicell® pharmacy robot.



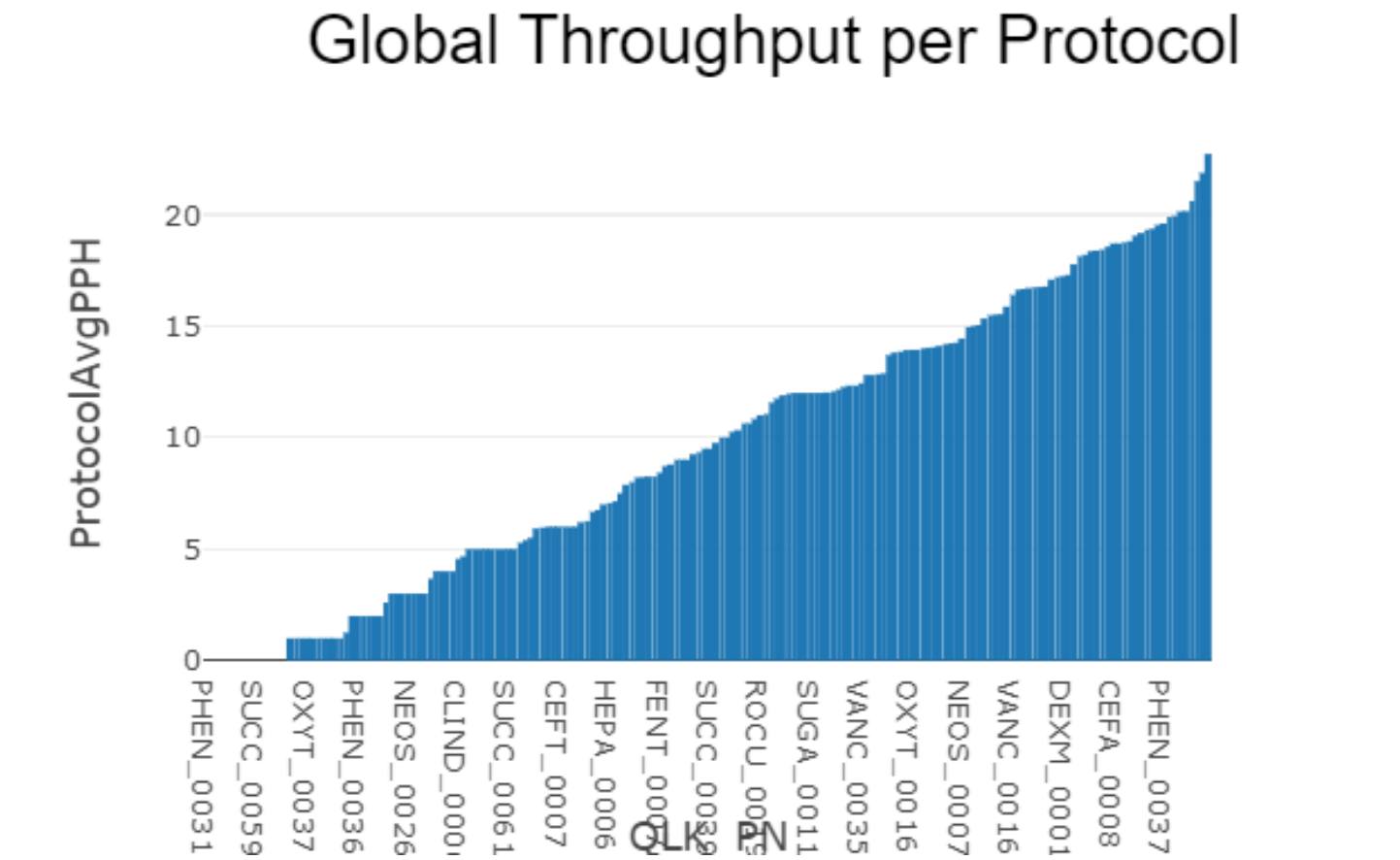
- Shows amount of customers utilizing a particular recipe for a medication (“protocol”)



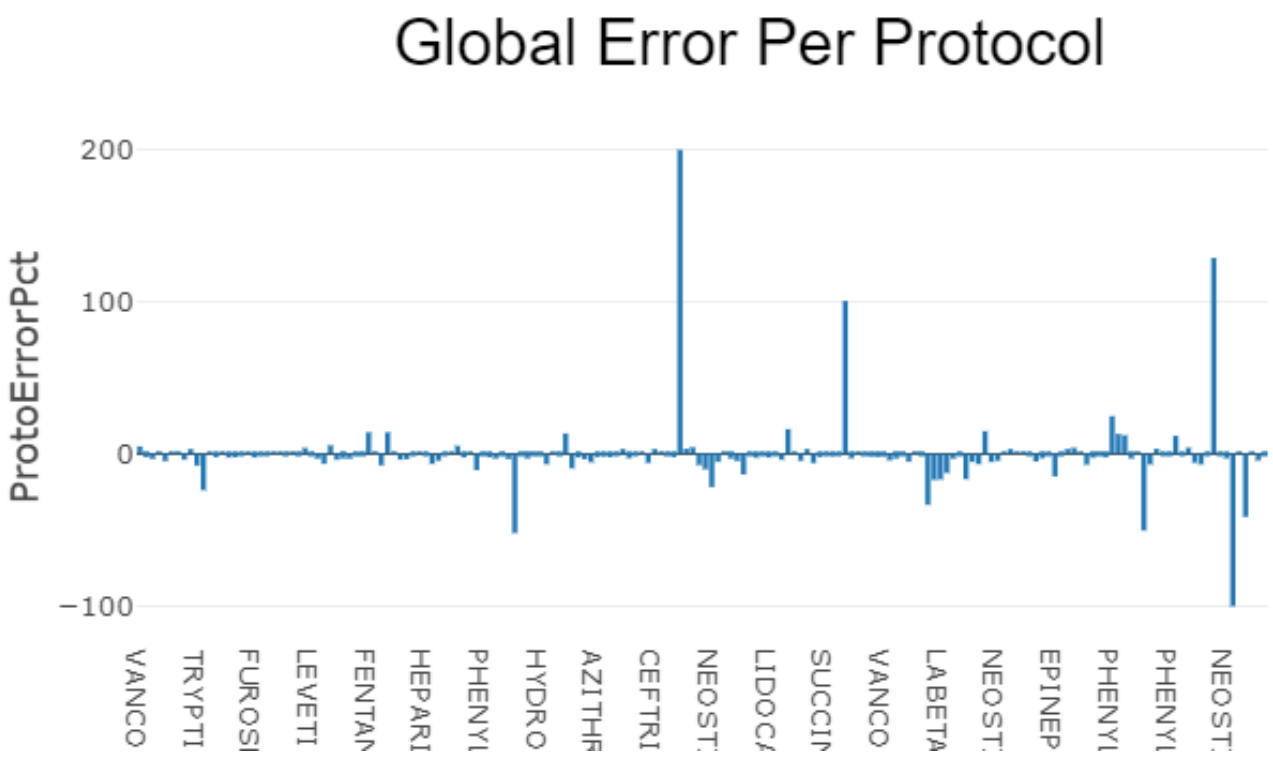
- Allows you to search for customers using any particular protocol, or vice-versa



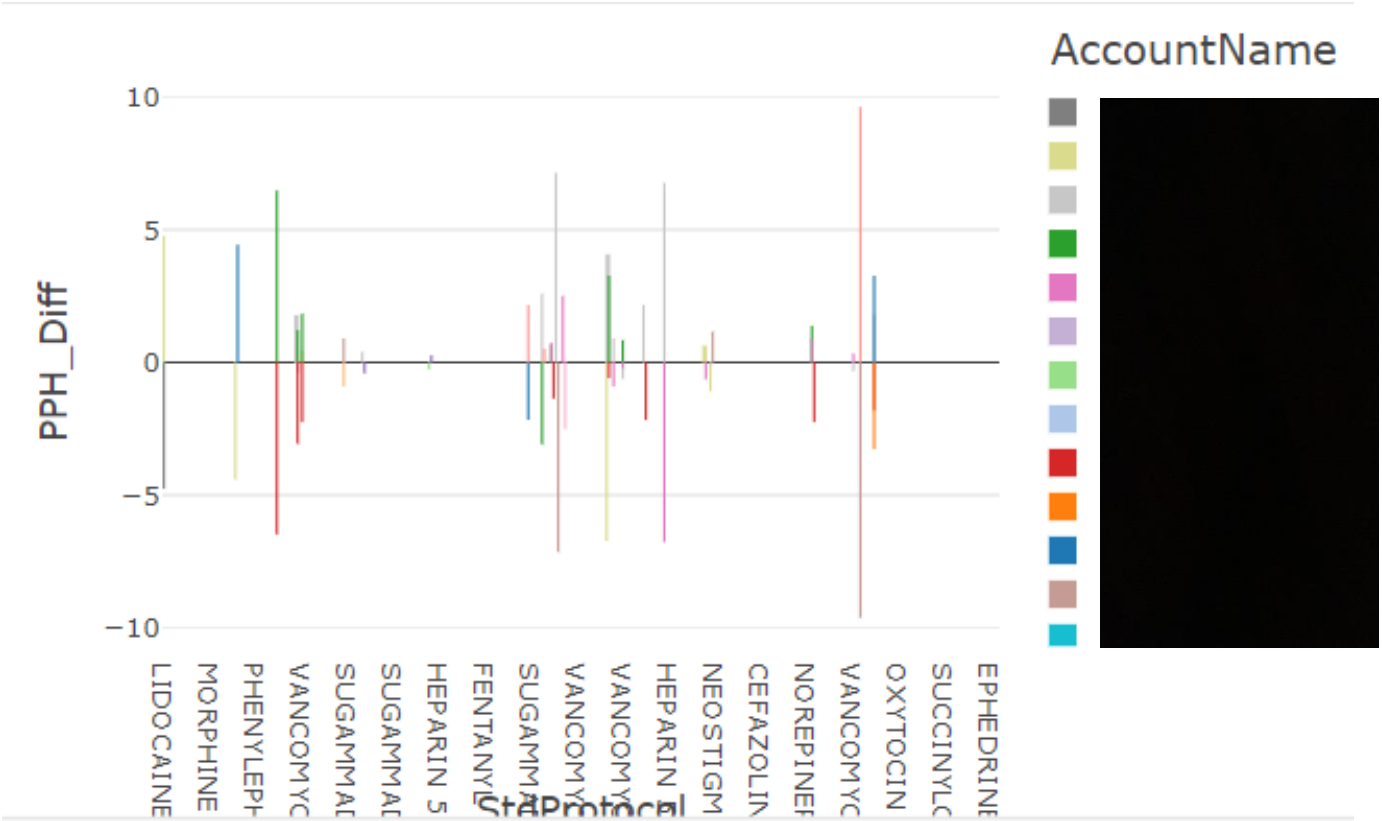
- Shows the number of unique protocols being run at different customer locations



- Shows the number of preparations being made per hour of differing protocols, aggregated across all customers



- Find outliers in error rate across different protocols



- Compare, across sites, the preparations per hour for each protocol vs. the average to find outliers and possible explanations/solutions

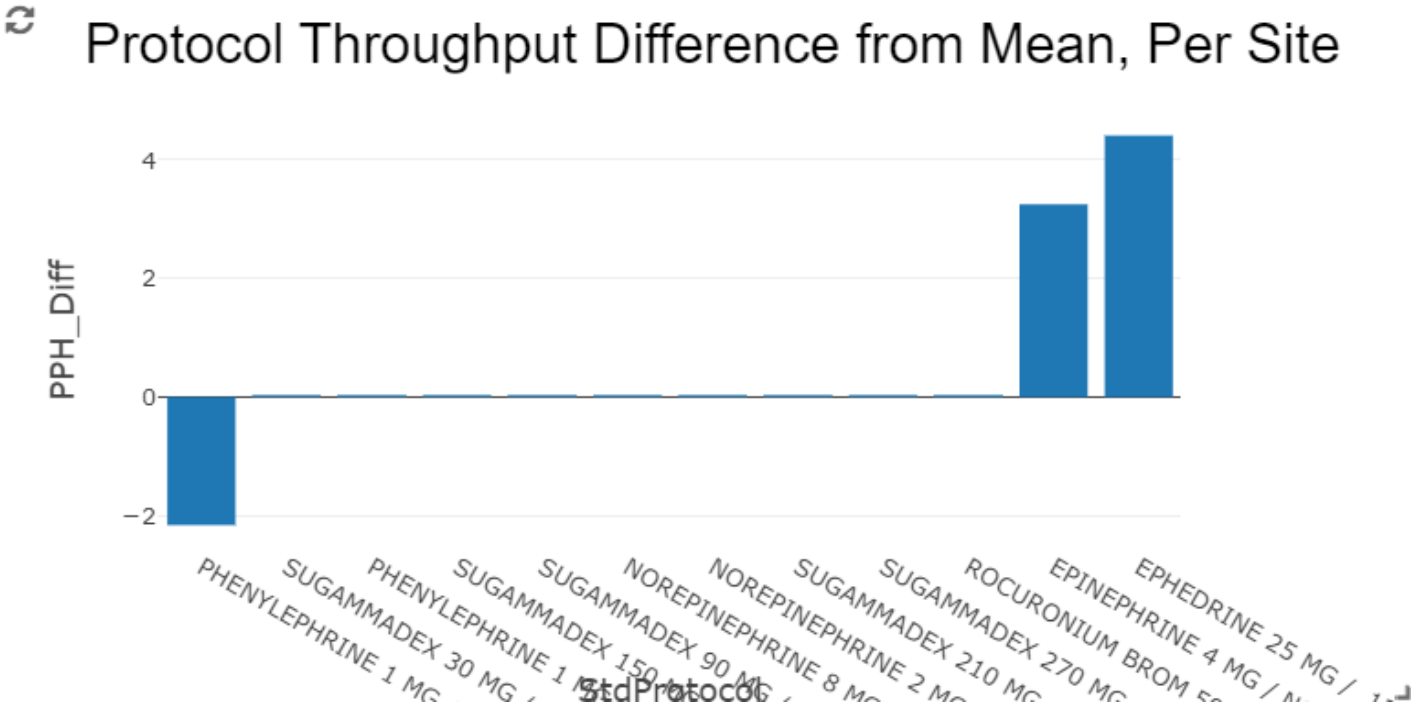
```sql
-- adding flags to values **
select *,
       case
           when PPH_Perc_Diff > 10 then '+FLAG'
           when PPH_Perc_Diff < -10 then '-FLAG'
           else null
       end as Alert_Flag
from xx
```

▸ (6) Spark Jobs

Table | Data Profile

	QLK_PN	StdProtocol	AccountName	Site_PPH	ProtocolAvgPPH	PPH_Diff	PPH_Perc_Diff	Alert_Flag
1	LIDO_0008	LIDOCAINE 100 MG / 10ML SYR	[redacted]	11.1	15.864999999999998	-4.76	-30.03	-FLAG
2	LIDO_0008	LIDOCAINE 100 MG / 10ML SYR	[redacted]	20.63	15.864999999999998	4.77	30.03	+FLAG
3	MORP_0001	MORPHINE 250 MG / NSS 250ML BAG	[redacted]	21.86	21.86	0	0	null
4	CEFT_0007	CEFTRIAXONE 1000 MG / 20ML SYR	[redacted]	6	6	0	0	null

- Code to find outlier protocol preparation per hour, per site, that are outside of a margin of error of 10%



- Displays preparations per hour deviations from the mean for a specified customer site
    - There was (I did not copy) an interactive dropdown box to select a site