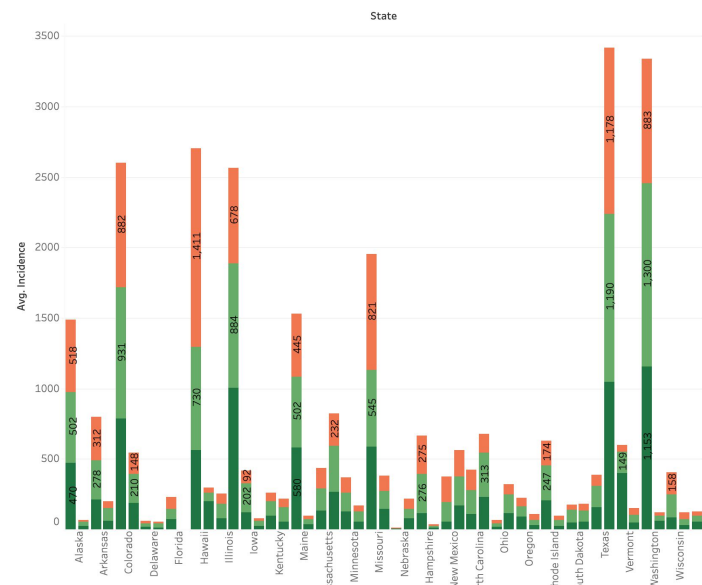


Seasonal Influenza

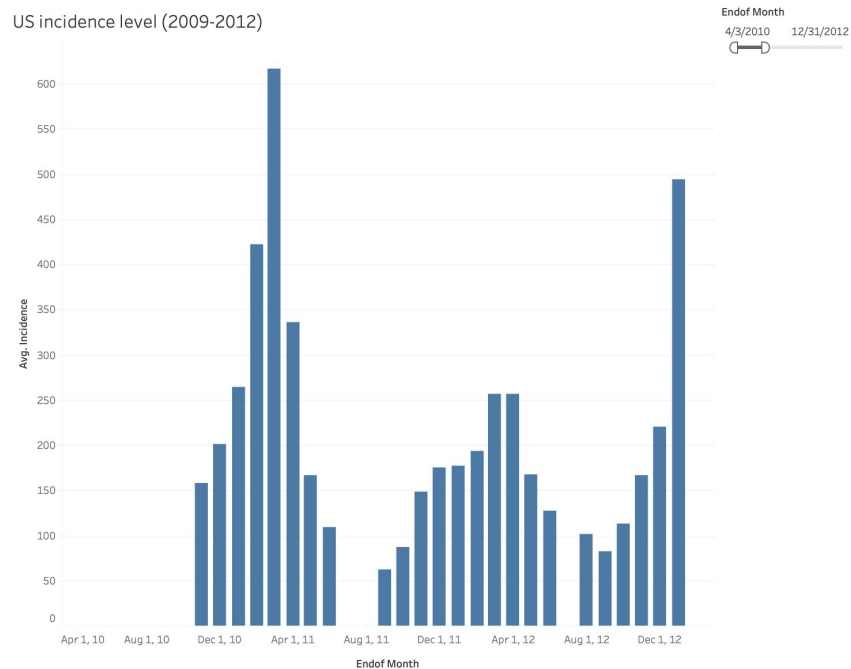
Team 11: Eric DeMare, Shreya Manchanda,
and Dhanashree Patel

Years 2009-2012 dataset (eric)

State (2009-2012) incidence level



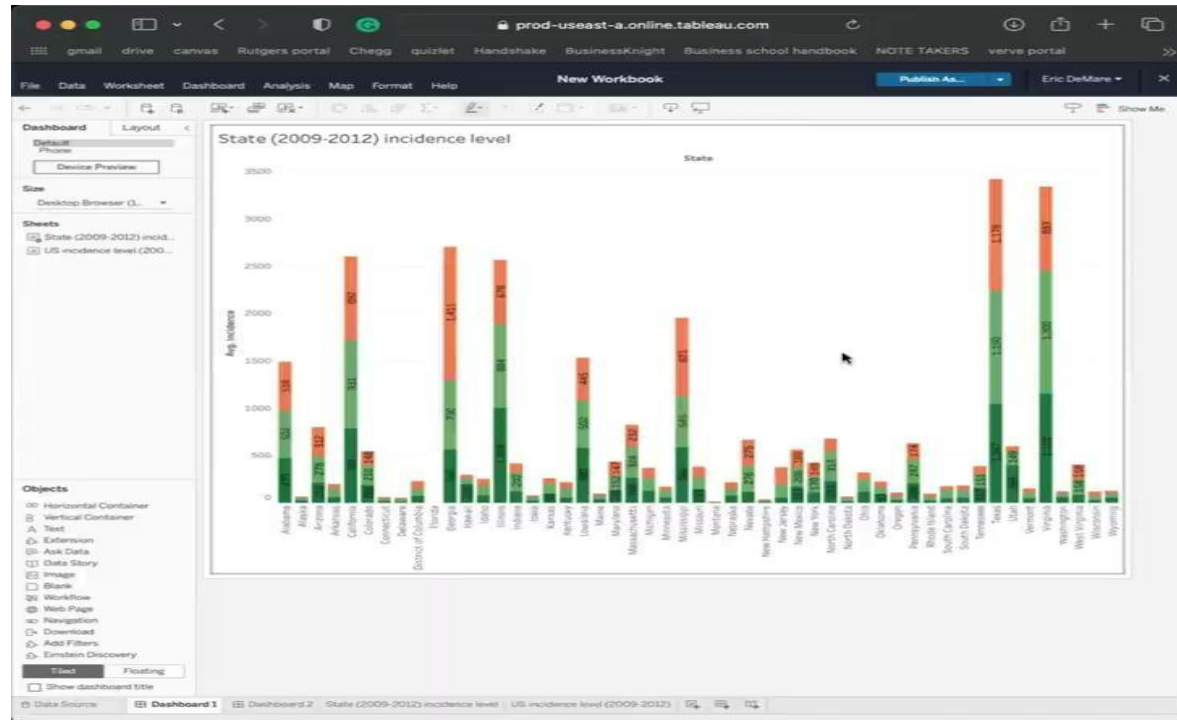
US incidence level (2009-2012)



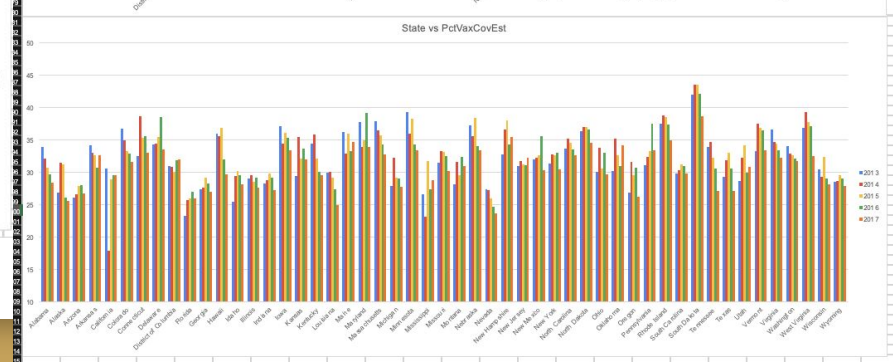
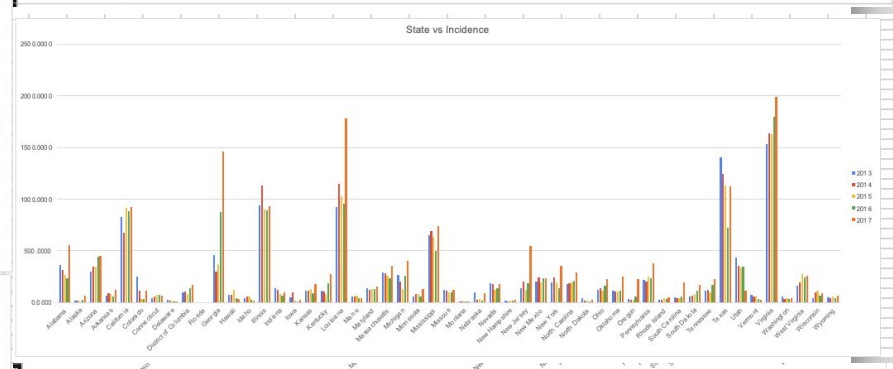
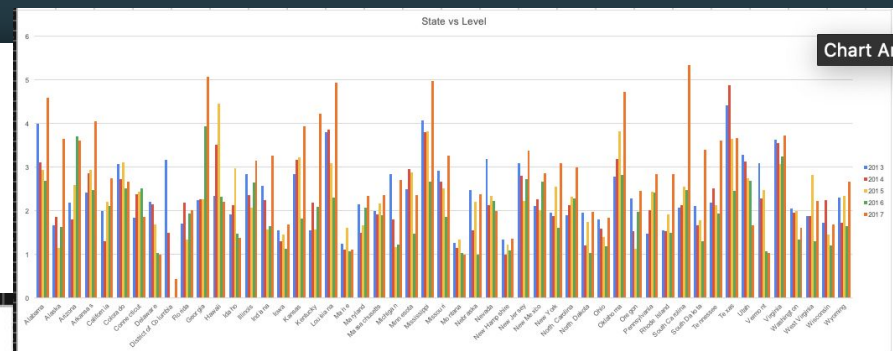
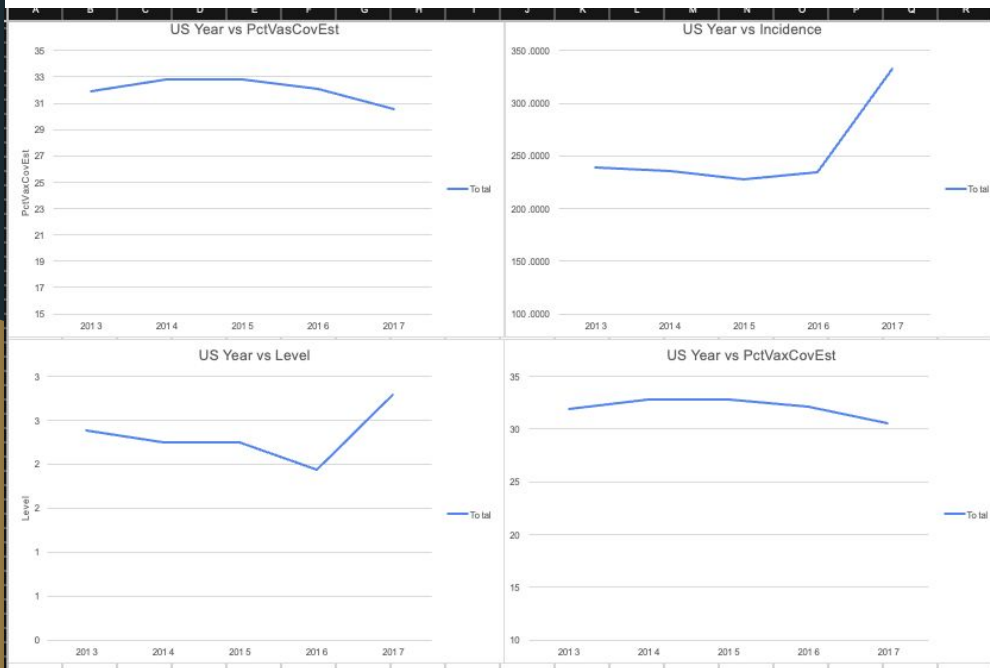
Managerial Recommendations

- Strategic
 - Tracking vaccination rates throughout the years helps identify barriers and adjust vaccination program accordingly.
- Tactical
 - Implement a flu vaccine program. This can involve partnering with a local health clinic to provide onsite vaccinations or offering incentives for people who get vaccinated.
- Operational
 - Provide education to people who don't have access and inform them on the benefits of the vaccine

Dashboard Video



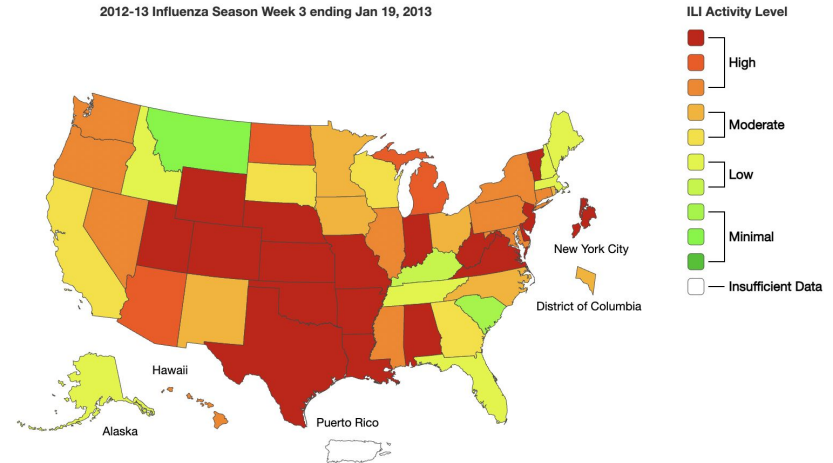
Years 2013-2017 dataset



Tactical Recommendation

During early 2013, there was a spike in flu cases, a spike that was unprecedentedly high. According to [US News](#), 128 million of the 135 million flu vaccines were administered, which constitutes 95 percent of the vaccines created.

My **tactical recommendation** would be to be prepared for large outbreaks of the flu and stock every public location with hand sanitizers and masks to avoid the spread of the influenza virus.

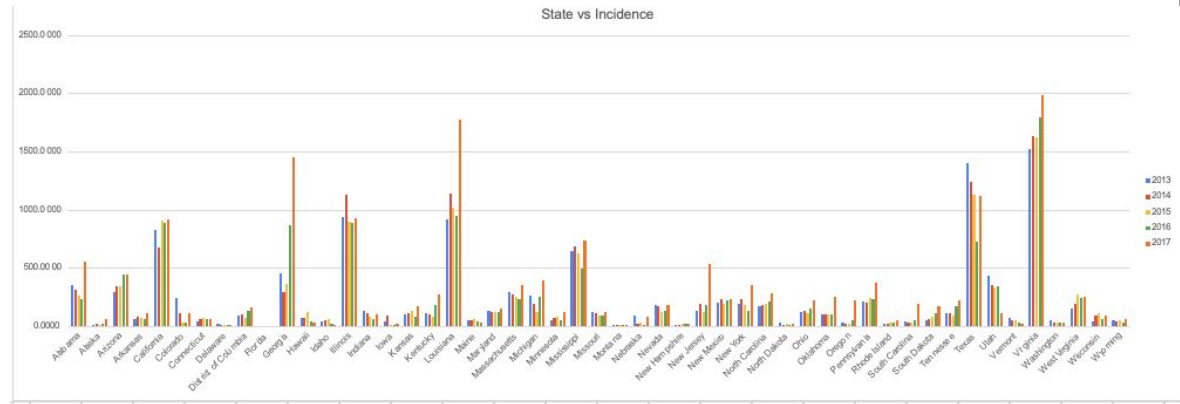
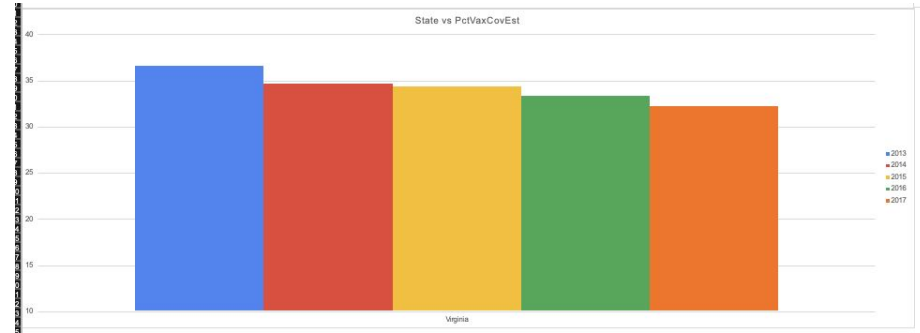


Operational and Strategic Recommendation

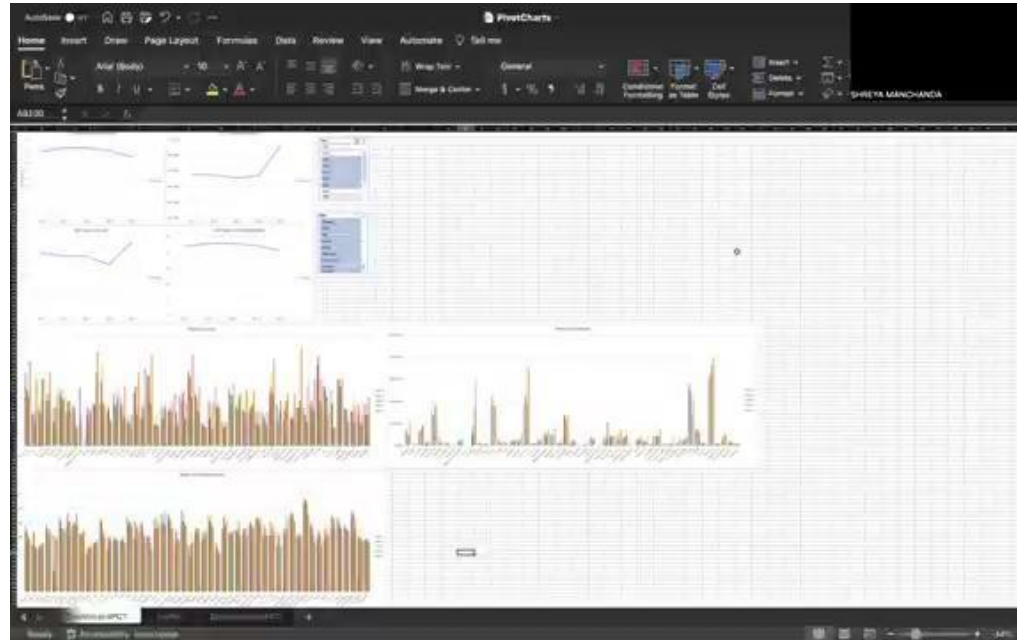
The Excel dashboard shows almost 2000 incidences of influenza in 2017. However, when we look at the Percent Covered Estimate in Virginia for the year 2017, it is around 33% which is consistent with the rest of the United States.

My operational recommendation would be to provide more vaccination locations to the states that tend to have larger incidence numbers.

My strategic recommendation would be to increase sick day pay for workers.

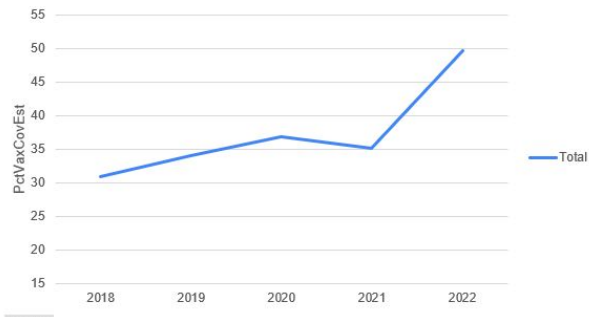


Dashboard Video

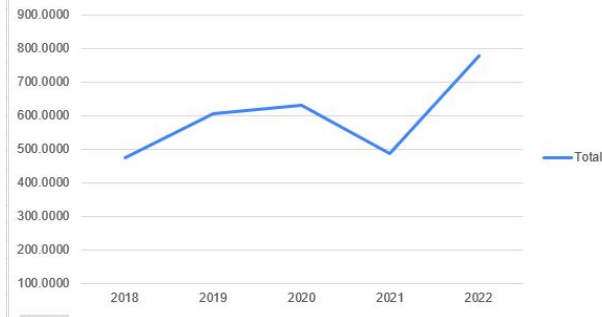


Years 2018-2022 Dataset

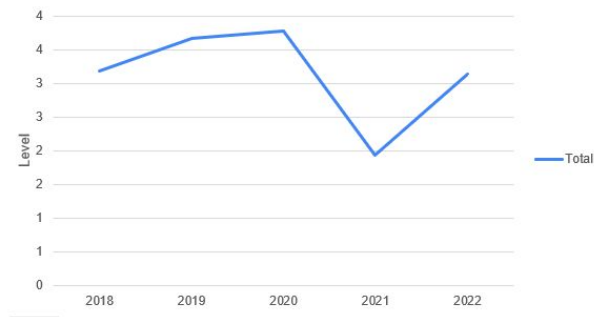
US Year vs PctVaxCovEst



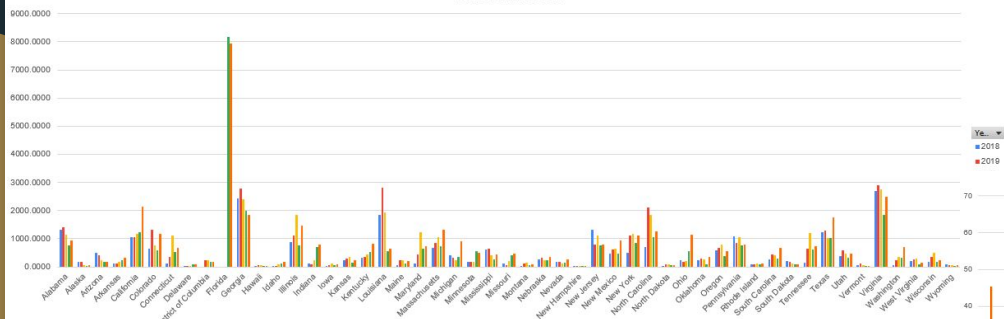
US Year vs Incidence



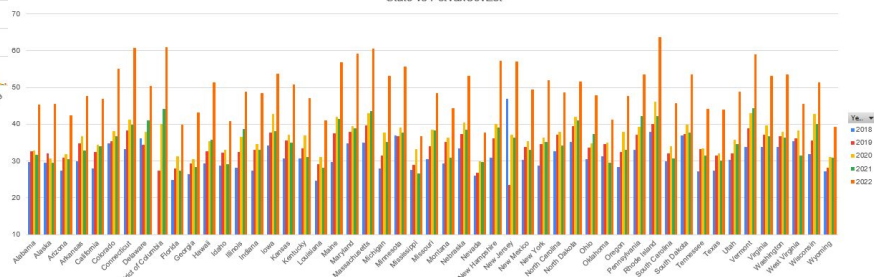
US Year vs Level



State vs Incidence



State vs PctVaxCovEst



Years 2018-2022

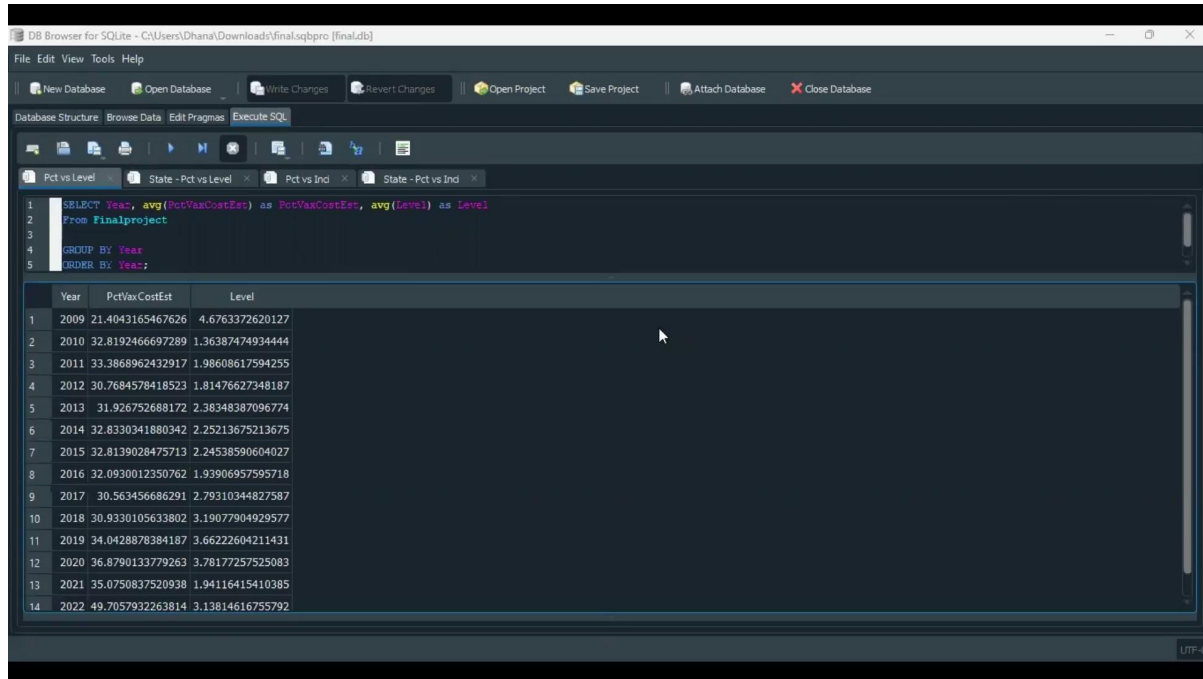
Managerial Recommendations:

Operational - Provided needed education and public announcements to debunk myths about vaccines.

Tactical - Making the vaccine available to the ones who are and aren't covered by insurance and increasing the number of clinics providing the vaccine.

Strategic - Investing in research to develop plans for future outbreaks.

Dashboard Video



The screenshot shows the DB Browser for SQLite application. The title bar indicates the file path: C:\Users\Dhana\Downloads\Final.sqbprio [final.db]. The menu bar includes File, Edit, View, Tools, and Help. The toolbar contains icons for New Database, Open Database, Write Changes, Revert Changes, Open Project, Save Project, Attach Database, and Close Database. The Database Structure tab is active, showing a tree view with 'Pct vs Level', 'State - Pct vs Level', 'Pct vs Ind', and 'State - Pct vs Ind'. The 'Pct vs Level' tab is selected, displaying a SQL query and its results.

```
1 SELECT Year, avg(PctVaxCostEst) as PctVaxCostEst, avg(Level) as Level
2 From Finalproject
3
4 GROUP BY Year
5 ORDER BY Year;
```

	Year	PctVaxCostEst	Level
1	2009	21.4043165467626	4.6763372620127
2	2010	32.8192466697289	1.36387474934444
3	2011	33.3868962432917	1.98608617594255
4	2012	30.7684578418523	1.81476627348187
5	2013	31.926752688172	2.38348387096774
6	2014	32.8330341880342	2.25213675213675
7	2015	32.8139028475713	2.24538590604027
8	2016	32.0930012350762	1.93906957595718
9	2017	30.563456686291	2.79310344827587
10	2018	30.9330105633802	3.19077904929577
11	2019	34.0428878384187	3.66222604211431
12	2020	36.8790133779263	3.78177257525083
13	2021	35.0750837520938	1.94116415410385
14	2022	49.7057932263814	3.13814616755792



Thank you!