Project Step 3

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Short Desciription

The idea of my project is keeping data of covid datas which is belongs to USA. It is important for government to arrange vaccination for states. The illness (covid-19) is spreading people with different speed state by state. So this database system is helping them to distribute vaccines state by state . As we can see on datas , some of states needed these vaccination more then others.

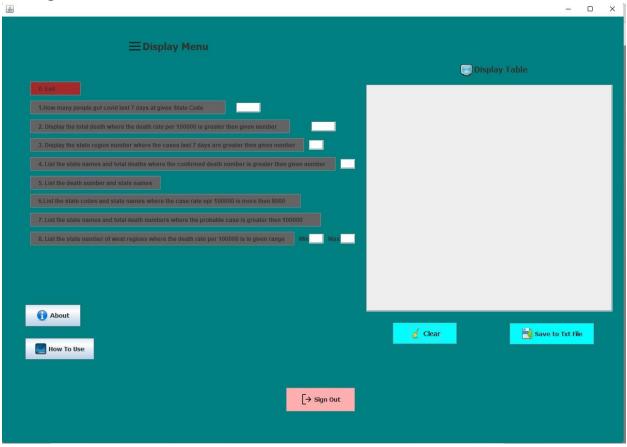
Type Of Data Usage

- i) Yes I use real data . I found it from Kaggle

 (https://www.kaggle.com/datasets/brendan45774/covid19-usmarchseptember?select=1-1-21+US+covid19.csv)

 I use real datas for all of my table except one of my column 'location' on died_in table .
- ii) No I did not.
- iii) Yes, I use (https://www.mockaroo.com/) site for generating locations.

I design a GUI.



Queries:

Output for 'IL' as input:



2. 2. Display state code and the total death where the death rate per 100000 is greater then given number

Output for '100' as input:

Display Table			
st_code_died	total_death		
AZ	8718		
AR	3736		
CT	5964		
GA	10838		
IL	17844		
IN	8160		
IA	3822		
LA	7448		
MA	12284		
MI	13018		
MS	4732		
NJ	18435		
NM	2436		
NY	12466		
NT	25144		
ND	1292		
PA	15672		
RI	1777		
SC	5244		
SD	1464		

Output for '100' as Input:

Display Table		
st_region	number_of_states	
West	11	
South	18	
Other	5	
Northeast	10	
Midwest	12	

Output for '5000' as input

confirmed death >'q4'

Display Table			
death_state	total_death		
Arizona	8718		
Georgia	10838		
Illinois	17844		
Indiana	8160		
Louisiana	7448		
Maryland	5895		
Massachusetts	12284		
Michigan	13018		
Minnesota	5321		
New Jersey	18435		
New York City	25144		
North Carolina	6744		
Ohio	8855		
Tennessee	6810		

5. List the death number and state names query5=select st_name,total_death states,died_in,death where st_code=st_code_died AND state_death=death_state;

	Display Table	
st_name	total_death	
Alaska	202	•
Alabama	4774	
Arkansas	3736	
American Samoa	0	
Arizona	8718	
California	24971	
Colorado	4750	
Connecticut	5964	
Districk of Colombia	780	
Delaware	921	
Florida	21903	
Georgia	10838	
Guam	121	
Hawaii	283	
lowa	3822	
Idaho	1403	
Illinois	17844	
Indiana	8160	
Kansas	2741	
Kentucky	2623	
Louisiana	7448	
Massachusetts	12284	
Maryland	5895	
Maine	344	
Michigan	13018	
Minnesota	5321	
Missouri	5491	
Mississippi	4732	

Output:

6.List the state codes and state names where the case rate epr 100000 is more then 8000

Select st_code , st_name
from states,case_rate
where st_name=case_state AND case_rate_per_100000>8000;

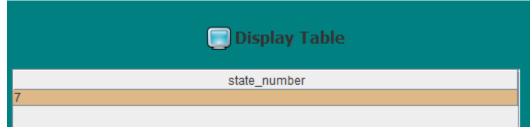
Output:

Display Table			
st_code	st_name		
IA .	lowa		
ND	North Dakota		
NE	Nebraska		
RI	Rhode Island		
SD	South Dakota		
TN	Tennessee		
UT	Utah		
WI	Wisconsin		

Output:

Display Table			
death_state	total_death		
Alabama	4774		
Arizona	8718		
Colorado	4750		
Connecticut	5964		
Georgia	10838		
Idaho	1403		
Illinois	17844		
Kansas	2741		
Kentucky	2623		
Massachusetts	12284		
Michigan	13018		
Mississippi	4732		
New York City	25144		
North Carolina	6744		
Ohio	8855		
Oklahoma	2496		
Oregon	1468		
Pennsylvania	15672		
South Carolina	5244		
Tennessee	6810		
Utah	1256		
Virginia	5032		
Wisconsin	5192		

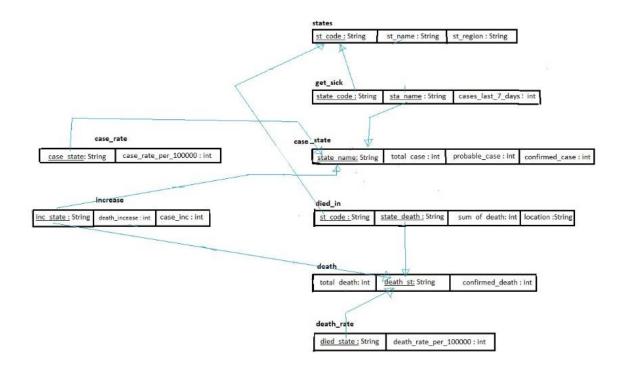
Output for '50' as min, '150' as max input :



Edits/Modifications/Adjustments

Relational Shema: I removed the dates of the data and I just import a specific date which is "01-01-2021":

I got some error about multiple primary keys so I remove some of them.



Queries: Since I removed the 'date' from all of my tables, I changed all of my queries:

1. How many people got covid last 7 days at given State Code

```
query1=select cases_last_7_days
    from get_sick
    where state code ='q1'
```

2.Display state code and the total death where the death rate per 100000 is greater then given number

3. Display the state region number where the cases last 7 days are greater then given number

4. List the state names and total deaths \twhere the confirmed death number is greater then given number

5. List the death number and state names

```
query5=select st_name,total_death
    states,died_in,death
    where st_code=st_code_died AND state_death=death_state;
```

 $6. List \ the \ state \ codes$ and state names where the case rate epr 100000 is more then 8000

```
Select st_code , st_name
from states,case_rate
where st name=case state AND case rate per 100000>8000;
```

7. List the state names and total death numbers where the probable case is greater then 100000

 $8\,.$ List the state number of west regions where the death rate per 100000 is in given range

References:

https://www.youtube.com/watch?v=k1 oA8v6Rc0&ab channel=ESDTutorials

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https://www.youtube.com/watch?v=k1 oA8v6Rc0

https://www.youtube.com/watch?v=LP7 Dlle670&ab channel=1BestCsharpblog

 $\frac{https://www.tutorialspoint.com/mysql-error-1452-cannot-add-or-update-a-child-row-a-foreign-key-constraint-fails\#:^:text=The\%20error\%20comes\%20when\%20you,in\%20in\%20the\%20other\%20table.\&text=\%E2\%80\%9CForeign-key-constraint-fails\#:^:text=The\%20error\%20comes\%20when\%20you,in\%20in\%20the\%20other%20table.\&text=\%E2\%80\%9CForeign-key-constraint-fails\#:^:text=The\%20error\%20comes\%20when\%20you,in\%20in\%20the\%20other%20table.\&text=\%E2\%80\%9CForeign-key-constraint-fails\#:^:text=The\%20error\%20comes\%20when\%20you,in\%20in\%20the\%20other%20table.\&text=\%E2\%80\%9CForeign-key-constraint-fails\#:^:text=The\%20error\%20comes\%20when\%20you,in\%20in\%20the\%20other%20table.&text=\%E2\%80\%9CForeign-key-constraint-fails\#:^:text=The\%20error\%20comes\%20when\%20you,in\%20in\%20the\%20other%20table.&text=\%E2\%80\%9CForeign-key-constraint-fails\#:^:text=The\%20error\%20inwolve\%20a,specified\%20in\%20the\%20child%20table.&text=\%E2\%80\%9CForeign-key-constraint-fails\#:^:text=The\%20error\%20inwolve\%20a,specified\%20in\%20the\%20child%20table.&text=\%E2\%80\%9CForeign-key-constraint-fails#:^:text=The\%20error\%20inwolve\%20a,specified%20in%20the\%20child%20table.$

https://www.youtube.com/watch?v=iE8tZ0hn2Ws&ab_channel=AlexLee

https://www.youtube.com/watch?v=k1 oA8v6Rc0&list=PL0Eca86 zC8 MAgRcCTrmZafEEiFXTUje&index=3

https://stackoverflow.com/questions/14762904/incorrect-integer-value-for-column-id-at-row-1

https://www.tutorialspoint.com/mysql-error-1452-cannot-add-or-update-a-child-row-a-foreign-key-constraint-
fails#:~:text=The%20error%20comes%20when%20you,in%20in%20the%20other%20table.&text=%E2%80%9CFore
gn%20key%20relationships%20involve%20a,specified%20in%20the%20child%20table.

https://bugs.mysql.com/bug.php?id=90945

Thank you.