SQL for Table Creations #3

# daily\_covid\_info table

Create Table – covid\_daily\_info  
create table daily\_covid\_info(  
submission\_date date,  
state varchar(3),  
tot\_cases int,  
conf\_cases int,  
prob\_cases int,  
new\_case int,  
pnew\_case int,  
tot\_death int,  
conf\_death int,  
prob\_death int,  
new\_death int,  
pnew\_death int,  
created\_at date,  
consent\_cases varchar(30),  
consent\_deaths varchar(30));

## Filter Data/Drop Columns Etc.

Create table covid\_daily\_info\_by\_month as (

select

extract(month from submission\_date) as period\_begin\_month,

extract(year from submission\_date) as period\_begin\_year,

concat(extract(month from submission\_date),'-',extract(year from submission\_date)) as period\_begin\_month\_year,

concat(extract(month from submission\_date),'-',extract(year from submission\_date),state) as covid\_month\_year\_state,

state,

sum(new\_case + pnew\_case) as cases,

sum(new\_death+pnew\_death) as deaths

from covid\_daily\_info

where state in ('MN', 'CA', 'FL','TX','WA') and submission\_date >= '2020-01-01' and submission\_date < '2022-01-01'

group by state, period\_begin\_month,period\_begin\_year

order by state, period\_begin\_year, period\_begin\_month

);

## Drop Table covid\_daily\_info

--https://stackoverflow.com/questions/4202135/how-to-drop-multiple-tables-in-postgresql-using-a-wildcard

DROP TABLE covid\_daily\_info

## Update Table Name from ‘covid\_daily\_info\_by\_month’ to ‘covid\_daily\_info’

--https://www.techonthenet.com/postgresql/tables/alter\_table.php

alter table covid\_daily\_info\_by\_month rename to covid\_daily\_info

## Add Primary Key to covid\_daily\_info

ALTER TABLE covid\_daily\_info ADD PRIMARY KEY (covid\_month\_year\_state);

## Add Foreign Key to covid\_daily\_info

ALTER TABLE covid\_daily\_info

ADD FOREIGN KEY (state)

REFERENCES states(state\_two\_letter\_abbreviation)

## Join Tables ‘covid\_daily\_info’ and ‘states’

Select period\_begin\_month, period\_begin\_year, period\_begin\_month\_year, covid\_month\_year\_state, state, state\_name\_title\_case, cases, deaths

from covid\_daily\_info ci

left join states s

on ci.state = s.state\_two\_letter\_abbreviation