

1.This query will create new table “COVID19_state_daily_report” and grouped cases according to state and date_reported to give total count of cases/deaths confirmed on single day:

```
DROP TABLE IF EXISTS COVID19_state_daily_report;
```

```
CREATE TABLE COVID19_state_daily_report
```

```
AS
```

```
SELECT TRIM(state) AS state, date_reported,IFNULL(SUM(cases),0) AS tot_cases,  
IFNULL(SUM(deaths),0) AS tot_deaths
```

```
FROM covid19_report
```

```
WHERE 1=1
```

```
AND state IS NOT NULL
```

```
GROUP BY state,date_reported;
```

2.This query will generate state_seq in covid19_state_daily_report_seq table.

```
DROP TABLE IF EXISTS covid19_state__daily_report_seq;
```

```
CREATE TABLE covid19_state__daily_report_seq
```

```
AS
```

```
SELECT TRIM(a.state) AS state, a.date_reported, a.tot_cases,a.tot_deaths, COUNT(*) state_seq
```

```
FROM covid19_state_daily_report a, covid19_state_daily_report b
```

```
WHERE a.state= b.state
```

```
AND a.date_reported >= b.date_reported
```

```
GROUP BY a.state, a.date_reported;
```

3. With help of seq generated this query will help to give cumulative_report per state. Which is helpful for visualization purpose.

```
DROP TABLE IF EXISTS covid19_state_cumulative_report;
```

```
CREATE TABLE covid19_state_cumulative_report
```

```
AS
```

```
SELECT a.state,a.date_reported,a.state_seq, a.tot_cases AS  
newly_confirmed_cases,SUM(b.tot_cases) AS tot_cases_till_date,a.tot_deaths AS  
newly_confirmed_deaths,SUM(b.tot_deaths) AS tot_deaths_till_date
```

```
FROM covid19_state__daily_report_seq AS a
```

```
INNER JOIN covid19_state__daily_report_seq AS b ON (a.state_seq>=b.state_seq) AND  
(a.state=b.state)
```

```
GROUP BY a.state,a.tot_cases,a.state_seq;
```

4. This query will give total number of cases/deaths for each state till date.

```
DROP TABLE IF EXISTS COVID19_state_total_cases_deaths;
```

```
CREATE TABLE COVID19_state_total_cases_deaths
```

```
AS
```

```
SELECT TRIM(state) AS state,IFNULL(SUM(tot_cases),0) AS tot_cases_per_state,  
IFNULL(SUM(tot_deaths),0) AS tot_deaths_per_state
```

```
FROM COVID19_state_daily_report
```

```
WHERE 1=1
```

```
AND state IS NOT NULL
```

```
GROUP BY state;
```