**Snowflake Queries**

1. **Top 5 states with maximum deaths**

select STATE,sum(DEATHS\_DIRECT) AS TotalDeaths

from StormEvents\_Details\_2019

group by STATE

order by sum(DEATHS\_DIRECT) DESC

LIMIT 5;

1. **Top 3 reasons of Death**

select FLOOD\_CAUSE, count(FLOOD\_CAUSE)

from StormEvents\_Details\_2019

group by FLOOD\_CAUSE

order by count(FLOOD\_CAUSE) DESC

LIMIT 3;

1. **Deaths By Gender**

select f.FATALITY\_SEX AS Gender, sum(d.DEATHS\_DIRECT) AS TotalDeaths

from StormEvents\_Details\_2019 d

JOIN StormEvents\_Fatalities\_2019 f

ON d.END\_YEARMONTH = f.FATALITY\_YEARMONTH

where f.FATALITY\_SEX IS NOT NULL

group by f.FATALITY\_SEX

order by sum(d.DEATHS\_DIRECT) DESC

**Views:**

1. **storm\_events\_2019**

**Joining stormEvents\_Fatalities\_2019 and StormEvents\_Details\_2019**

create view storm\_events\_2019 AS

select f.FATALITY\_YEARMONTH, f.FATALITY\_DAY, f.FATALITY\_ID, f.EVENT\_ID, f.FATALITY\_TYPE, f.FATALITY\_DATE, f.FATALITY\_AGE, f.FATALITY\_SEX, f.FATALITY\_LOCATION, f.EVENT\_YEARMONTH , d.BEGIN\_YEARMONTH, d.BEGIN\_DAY, d.BEGIN\_TIME, d.END\_YEARMONTH, d.END\_DAY, d.END\_TIME, d.EVENT\_ID, d.STATE, d.YEAR, d.MONTH\_NAME, d.EVENT\_TYPE, d.CZ\_NAME, d.CZ\_TYPE, d.CZ\_FIPS, d.CZ\_NAME, d.INJURIES\_DIRECT, d.DEATHS\_DIRECT, d.SOURCE, MAGNITUDE, d.MAGNITUDE\_TYPE, d.FLOOD\_CAUSE, d.BEGIN\_LOCATION, d.END\_LOCATION, d. BEGIN\_LAT, d.BEGIN\_LON, d.END\_LAT, d.END\_LON from StormEvents\_Fatalities\_2019 f

JOIN StormEvents\_Details\_2019 d

ON f.FATALITY\_YEARMONTH = d.END\_YEARMONTH

1. **Storm\_events\_2018**

**Joining stormEvents\_Fatalities\_2018 and StormEvents\_Details\_2018**

create view storm\_events\_2018 AS

select f.FATALITY\_YEARMONTH, f.FATALITY\_DAY, f.FATALITY\_ID, f.EVENT\_ID, f.FATALITY\_TYPE, f.FATALITY\_DATE, f.FATALITY\_AGE, f.FATALITY\_SEX, f.FATALITY\_LOCATION, f.EVENT\_YEARMONTH , d.BEGIN\_YEARMONTH, d.BEGIN\_DAY, d.BEGIN\_TIME, d.END\_YEARMONTH, d.END\_DAY, d.END\_TIME, d.EVENT\_ID, d.STATE, d.YEAR, d.MONTH\_NAME, d.EVENT\_TYPE, d.CZ\_NAME, d.CZ\_TYPE, d.CZ\_FIPS, d.CZ\_NAME, d.INJURIES\_DIRECT, d.DEATHS\_DIRECT, d.SOURCE, MAGNITUDE, d.MAGNITUDE\_TYPE, d.FLOOD\_CAUSE, d.BEGIN\_LOCATION, d.END\_LOCATION, d. BEGIN\_LAT, d.BEGIN\_LON, d.END\_LAT, d.END\_LON

from StormEvents\_Fatalities\_2018 f

JOIN StormEvents\_Details\_2018 d

ON f.FATALITY\_YEARMONTH = d.END\_YEARMONTH

1. **SevirStormData**

**Joining Sevir and Storm Data**

create view SevirStormData

AS

select s.id, s.file\_name, s.file\_index, s.img\_type, s.time\_utc,s.event\_type, s.llcrnrlat, s.llcrnrlon,

s.urcrnrlat, s.urcrnrlon, s.size\_x , s.size\_y, s.height\_m, s.width\_m, s.data\_min, s.data\_max ,

d.BEGIN\_YEARMONTH, d.BEGIN\_DAY, d.BEGIN\_TIME, d.END\_YEARMONTH, d.END\_DAY, d.END\_TIME, d.EPISODE\_ID, d.STATE,

d.STATE\_FIPS, d.YEAR, d.MONTH\_NAME, d.CZ\_TYPE, d.CZ\_FIPS, d.CZ\_NAME,

d.WFO, d.BEGIN\_DATE\_TIME, d.END\_DATE\_TIME, d.INJURIES\_DIRECT, d.DEATHS\_DIRECT, d.SOURCEEVENT, d.MAGNITUDE,

d.MAGNITUDE\_TYPE, d.FLOOD\_CAUSE, d.BEGIN\_LOCATION, d.END\_LOCATION, d.BEGIN\_LAT, d.BEGIN\_LON, d.END\_LAT, d.END\_LON

from sevir\_metadata s

JOIN StormEvents\_Details\_2019 d

ON s.EVENT\_ID = d.EVENT\_ID

**Loading Data in a New Table for Airflow**

create table SevirStormAS (select s.ID,s.FILE\_NAME,s.EVENT\_ID,s.EVENT\_TYPE,s.EPISODE\_ID,d.BEGIN\_YEARMONTH, d.END\_YEARMONTH, d.STATE,d.DEATHS\_DIRECT,d.FLOOD\_CAUSE

from SEVIR\_METADATA s JOIN StormEvents\_Details\_2019 d

ON s.EVENT\_ID = d.EVENT\_ID)