1.flight count





1.5.Problematic Flight Counts

select airline,

count(

case

when cancelled = 1 THEN 1

when dep\_delay > 0 THEN 1

when arr\_delay > 0 THEN 1

when DELAY\_DUE\_CARRIER > 0 THEN 1

WHEN DELAY\_DUE\_WEATHER > 0 THEN 1

WHEN DELAY\_DUE\_NAS > 0 THEN 1

WHEN DELAY\_DUE\_SECURITY > 0 THEN 1

WHEN DELAY\_DUE\_LATE\_AIRCRAFT> 0 THEN 1

else 0

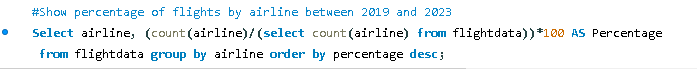
end ) as Problematic\_Flight\_Count

from flightdata

where airline = "Southwest Airlines Co.";



2.flight percentage per company

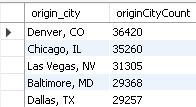




3.#show top 5 cities where the most flights happen to for southwest airlines

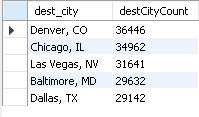
select origin\_city, count(origin\_city) AS originCityCount from flightdata where airline = "Southwest Airlines Co."

group by origin\_city order by originCityCount desc LIMIT 5;



select dest\_city, count(dest\_city) AS destCityCount from flightdata where airline = "Southwest Airlines Co."

group by dest\_city order by destCityCount desc LIMIT 5;

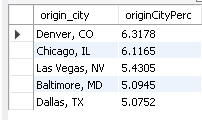


4. percentage of denver and chicago

#show denver and chicago as percentage of flights both origin and destination

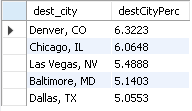
select origin\_city, (count(origin\_city)/(select count(origin\_city) from flightdata where airline = "Southwest Airlines Co."))\*100 AS originCityPerc from flightdata where airline = "Southwest Airlines Co."

group by origin\_city order by originCityPerc desc LIMIT 5;



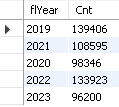
select dest\_city, (count(dest\_city)/(select count(dest\_city) from flightdata where airline = "Southwest Airlines Co."))\*100 AS destCityPerc from flightdata where airline = "Southwest Airlines Co."

group by dest\_city order by destCityPerc desc LIMIT 5;



5. #Show number of flights per year by SAC

select substring(fl\_date,1,4) as flYear, count(fl\_date) as Cnt from flightdata where airline = "Southwest Airlines Co." group by substring(fl\_date,1,4);



6. show tally per case of cancellation

select airline,

sum(case when dep\_delay> 0 THEN 1 ELSE 0 END) AS DEP\_DELAY,

sum(case when ARR\_DELAY> 0 THEN 1 ELSE 0 END) AS ARR\_DELAY,

sum(case when DELAY\_DUE\_CARRIER> 0 THEN 1 ELSE 0 END) AS DELAY\_DUE\_CARRIER,

sum(case when DELAY\_DUE\_WEATHER> 0 THEN 1 ELSE 0 END) AS DELAY\_DUE\_WEATHER,

sum(case when DELAY\_DUE\_NAS> 0 THEN 1 ELSE 0 END)AS DELAY\_DUE\_NAS,

sum(case when delay\_due\_security> 0 THEN 1 ELSE 0 END) AS delay\_due\_security,

sum(case when delay\_due\_late\_aircraft> 0 THEN 1 ELSE 0 END) AS delay\_due\_late\_aircraft,

sum(case when CANCELLED> 0 THEN 1 ELSE 0 END) AS CANCELLED

FROM FLIGHTDATA WHERE AIRLINE = "Southwest Airlines Co.";

