**/\* Question No1:- Determine the number of flights that are delayed on various days of the week \*/**

*-- First calling the database to import the data.*

* use job\_readiness;

*-- Import the data set to perform further operation.*

* select \* from airline;
* select \* from airports;
* select \* from runways;
* select DayOfWeek, count(Flight), Delay from airline where Delay=1 group by DayOfWeek;

**/\* Question No2:- Determine the number of delayed flights for various airlines \*/**

* select Airline, count(Flight) from airline where Delay=1 group by Airline;

**/\* Question No3:- Determine how many delayed flights land at airports with at least 10 runways \*/**

* select AirportTo, Flight, Delay from airline where Delay=1 group by AirportTo;

**/\* Question No4:- Compare the number of delayed flights at airports higher than average elevation and those that are lower than average elevation for both source and destination airports \*/**

*-- Lets first compare for the source airport*

* select l.AirportFrom, count(l.Flight), avg(p.elevation\_ft) as avg\_elevation, p.elevation\_ft

from airline as l

inner join airports as p

on p.iata\_code = l.AirportFrom

where p.elevation\_ft >1037.25 and l.Delay=1

group by l.AirportFrom;

* select l.AirportFrom, count(l.Flight), avg(p.elevation\_ft) as avg\_elevation, p.elevation\_ft

from airline as l

inner join airports as p

on p.iata\_code = l.AirportFrom

where p.elevation\_ft< 1037.25 and l.Delay=1

group by l.AirportFrom;

*-- Lets now compare for the destination airport*

* select l.AirportTo, count(l.Flight), avg(p.elevation\_ft) as avg\_elevation, p.elevation\_ft

from airline as l

inner join airports as p

on p.iata\_code = l.AirportFrom

where p.elevation\_ft >1037.25 and l.Delay=1

group by l.AirportTo;

* select l.AirportTo, count(l.Flight), avg(p.elevation\_ft) as avg\_elevation, p.elevation\_ft

from airline as l

inner join airports as p

on p.iata\_code = l.AirportFrom

where p.elevation\_ft <1037.25 and l.Delay=1

group by l.AirportTo;