-- Top 5 most accidents Car make

select v.make,count(0) from accident a inner join

vehicles v on (a."Accident\_Index" = v."Accident\_Index")

group by v.make order by 2 desc limit(5);

Table

Description automatically generated

-- Top 5 least accidents Car make

select v.make,count(0) num\_of\_accidents from accident a inner join

vehicles v on (a."Accident\_Index" = v."Accident\_Index")

group by v.make order by 2 limit(5);

Table

Description automatically generated

-- All accident tally with weather info from 2005 Jan to 2017 Dec

select a."Year", a."month", count(0) num\_of\_accidents, w.tmax, w.tmin,w.rain from accident a

inner join weather w on (a."Year" = w."Year" and a."month" = w."month")

group by a."Year", a."month", w.tmax, w.tmin,w.rain order by 1,2;

Table

Description automatically generated

-- All accident tally with weather info group by year from 2005 to 2017

select a."Year", count(0) num\_of\_accidents, round(avg(w.tmax)::numeric,1) avg\_max\_temp,

round(avg(w.tmin)::numeric,1) avg\_min\_temp,

round(sum(w.rain)::numeric,1) total\_rain from accident a

inner join weather w on (a."Year" = w."Year" and a."month" = w."month")

group by a."Year" order by 1;

Table

Description automatically generated

-- All accident tally with weather info group by month from 2005 to 2017

select a."month", count(0) num\_of\_accidents, avg(w.tmax) ave\_max\_temp, avg(w.tmin) avg\_min\_tmp,

avg(w.rain) avg\_rain\_fall, sum(w.rain) total\_rain from accident a

inner join weather w on (a."Year" = w."Year" and a."month" = w."month")

group by a."month" order by 1;

Graphical user interface, text, application

Description automatically generated

-- Top 5 most accidents year month

select a."Year", a."month", count(0), w.tmax, w.tmin,w.rain from accident a

inner join weather w on (a."Year" = w."Year" and a."month" = w."month")

group by a."Year", a."month", w.tmax, w.tmin,w.rain order by 3 desc limit(5);

Table

Description automatically generated

-- Top 5 least accidents year month

select a."Year", a."month", count(0), w.tmax, w.tmin,w.rain from accident a

inner join weather w on (a."Year" = w."Year" and a."month" = w."month")

group by a."Year", a."month", w.tmax, w.tmin,w.rain order by 3 limit(5);

Table

Description automatically generated

-- Month and Year with the greatest rain fall

with greatest\_rainfall\_month\_year as

(select w.\* from weather w where rain in

(select max(w.rain)

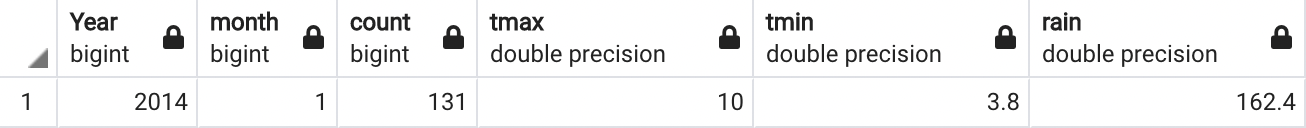
from weather w inner join accident a

on (a."Year" = w."Year" and a."month" = w."month")))

select a."Year", a."month", count(0), w.tmax, w.tmin,w.rain from accident a

inner join greatest\_rainfall\_month\_year w on (a."Year" = w."Year" and a."month" = w."month")

group by a."Year", a."month", w.tmax, w.tmin,w.rain;



-- Month and Year with the lowest temperature

with minimum\_temp\_month\_year as

(select w.\* from weather w where w.tmin in

(select min(w.tmin)

from weather w inner join accident a

on (a."Year" = w."Year" and a."month" = w."month")))

select a."Year", a."month", count(0), w.tmax, w.tmin,w.rain from accident a

inner join minimum\_temp\_month\_year w on (a."Year" = w."Year" and a."month" = w."month")

group by a."Year", a."month", w.tmax, w.tmin,w.rain;



-- Month and Year with the least rainfall

with least\_rainfall\_month\_year as

(select w.\* from weather w where rain in

(select min(w.rain)

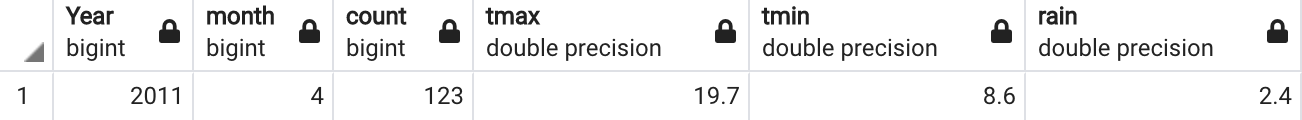
from weather w inner join accident a

on (a."Year" = w."Year" and a."month" = w."month")))

select a."Year", a."month", count(0), w.tmax, w.tmin,w.rain from accident a

inner join least\_rainfall\_month\_year w on (a."Year" = w."Year" and a."month" = w."month")

group by a."Year", a."month", w.tmax, w.tmin,w.rain;



-- Month and Year with the maximum temperature

with maximum\_temp\_month\_year as

(select w.\* from weather w where w.tmax in

(select max(w.tmax)

from weather w inner join accident a

on (a."Year" = w."Year" and a."month" = w."month")))

select a."Year", a."month", count(0), w.tmax, w.tmin,w.rain from accident a

inner join maximum\_temp\_month\_year w on (a."Year" = w."Year" and a."month" = w."month")

group by a."Year", a."month", w.tmax, w.tmin,w.rain;



-- Sex of driver vs number of accidents

select v."Sex\_of\_Driver",count(0) num\_of\_accidents from accident a inner join

vehicles v on (a."Accident\_Index" = v."Accident\_Index")

group by v."Sex\_of\_Driver";

Table

Description automatically generated

-- Age Band of Driver vs number of accidents

select v."Age\_Band\_of\_Driver",count(0) num\_of\_accidents from accident a inner join

vehicles v on (a."Accident\_Index" = v."Accident\_Index")

group by v."Age\_Band\_of\_Driver";

Table

Description automatically generated

-- Weather season vs number of accidents

select season,count(0) number\_of\_accidents from (

select case when month in (12,1,2) then 'Winter'

when month between 3 and 5 then 'Spring'

when month between 6 and 8 then 'Summer'

when month between 9 and 11 then 'Autumn'

end season

from accident a) a group by season order by season;

Table

Description automatically generated

-- Day\_of\_Week vs number of accidents

select a."Day\_of\_Week",count(0) num\_of\_accidents from accident a

group by a."Day\_of\_Week" order by 2 desc;

Table

Description automatically generated