Number of accidents each year

select count(\*),year\_inci

from (

select Extract(year from TIMESTAMP) as Year\_Inci

from Incident )

group by year\_inci

order by year\_inci

;

Average time to finish report

select avg(days) as Average\_Report

from ( select extract(day from ((end\_timestamp - start\_timestamp))) as days

from investigation

order by investigation\_id

);

Speeds per incident

select (CAR\_SPEED-LANE\_SPEED) as Diff,IIF1 as Incident\_ID

from

(

select avg(speed) as lane\_speed,incident\_id\_fk as iif1

from lane,affected

where affected.lane\_id\_fk=lane.lane\_id

group by incident\_id\_fk

)

inner join (

select avg(speed)as car\_Speed,incident\_id\_fk as iif2

from involves

group by incident\_id\_fk

)

on iif1=iif2

;

Avg overspeed

select avg((CAR\_SPEED-LANE\_SPEED)) as Diff

from

(

select avg(speed) as lane\_speed,incident\_id\_fk as iif1

from lane,affected

where affected.lane\_id\_fk=lane.lane\_id

group by incident\_id\_fk

)

inner join (

select avg(speed)as car\_Speed,incident\_id\_fk as iif2

from involves

group by incident\_id\_fk

)

on iif1=iif2

where car\_speed > lane\_speed

;

Avg time by each Inspector

select avg(extract(day from ((end\_timestamp - start\_timestamp)))) as days,led\_by\_fk

from investigation

group by led\_by\_fk

order by led\_by\_fk

;

Number of accidents year wise

select count(\*)

from incident

where extract(year from Timestamp)=2014

group by extract(month from Timestamp)

;

Cars involves in accident

select number\_of\_acc,make,model

from (

select count(\*)as number\_of\_Acc,vehicle\_id\_fk as vif

from involves,vehicle

where vehicle\_id\_fk=vehicle\_id

group by involves.vehicle\_id\_fk ),vehicle

where vif=vehicle\_id

order by number\_of\_acc desc

prediction of accidents

select avg(diff)

from (

select a,a1,ab,a2,(ab-a) as Diff

from (

select count(\*)as a,year\_inci as a1

from (

select Extract(year from TIMESTAMP) as Year\_Inci

from Incident )

group by year\_inci

order by year\_inci

)

inner join (

select count(\*)as ab,year\_inci as a2

from (

select Extract(year from TIMESTAM P) as Year\_Inci

from Incident )

group by year\_inci

order by year\_inci

)

on a1+1=a2

)

;