Team-3 \_Part 3 – SQL queries

--How Many Car Accidents Are There in NYC Every Year?

  select count(fcc.collision\_id) total\_count, year(fcc.collision\_dt) year

from fct\_collision\_crashes fcc

join fct\_collision\_crashes\_vehicles fccv on (fcc.collision\_id = fccv.COLLISION\_ID)

join Dim\_vehicle\_type\_code dvtc on (fccv.vehicle\_type\_code\_SK = dvtc.vehicle\_type\_code\_SK)

where vehicle\_type\_code like '% CAR %'

or vehicle\_type\_code like '% CAR' or vehicle\_type\_code like 'CAR %' or vehicle\_type\_code = 'CAR'  group by year(fcc.collision\_dt)

--Which Boroughs in New York City Have the Most Accidents?

select top 1 borough

from [dbo].[fct\_collision\_crashes]

where borough is not null

group by borough  order by count(collision\_id) desc

--How Many NYC Car Accidents Result in an Injury?

select sum(number\_of\_persons\_injured) count\_of\_cyclist\_injured

from [dbo].[fct\_collision\_crashes]

--When Do Most New York City Car Accidents Happen?

select top 1 collision\_hour hour\_of\_day

from [dbo].[fct\_collision\_crashes]

group by collision\_hour

order by count(collision\_id) desc

--How Common Are Bicycle Accidents in NYC?

select count(\*) CyclistKilled

from (select collision\_id

from [dbo].[fct\_collision\_crashes]

where number\_of\_cyclist\_injured != 0

union all

select collision\_id

from [dbo].[fct\_collision\_crashes]

where number\_of\_cyclist\_killed != 0 ) bicycles

--How Often Are Pedestrians Involving New York Traffic Accidents?

select count(fcc.collision\_id) PedestrainCount, dpr.PED\_ROLE PeopleInvolved

from [Dim\_PED\_ROLE] dpr

join [fct\_collision\_persons] fcp on dpr.PED\_ROLE\_SK = fcp.PED\_ROLE\_SK

join fct\_collision\_crashes fcc on fcp.COLLISION\_ID = fcc.collision\_id

where dpr.PED\_ROLE = 'PEDESTRIAN'  group by dpr.PED\_ROLE

--How Many Motorcyclists are Injured or Killed in NYC Accidents?

select (total\_killed + total\_injured) Motorist\_killed\_injured

from (select ( select sum(number\_of\_motorist\_killed)

from [dbo].[fct\_collision\_crashes] ) total\_killed ,

(select sum(number\_of\_motorist\_injured)

from [dbo].[fct\_collision\_crashes] ) total\_injured ) sum\_of\_motorist

--no of truck involved

 select sum(total\_count) trucks\_involved

from (  select count(a.collision\_id) total\_count

from fct\_collision\_crashes a

join fct\_collision\_crashes\_vehicles b on a.collision\_id = b.COLLISION\_ID

join Dim\_vehicle\_type\_code c on b.vehicle\_type\_code\_SK = c.vehicle\_type\_code\_SK

where c.vehicle\_type\_code like '% TRUCK %' or c.vehicle\_type\_code like '%TRUC%' or  c.vehicle\_type\_code like '% TRUCK' or c.vehicle\_type\_code like 'TRUCK %' or c.vehicle\_type\_code = 'TRUCK'

group by c.vehicle\_type\_code) trucks