7. Basic crash info + narrative for single motorcycle injuries

*This query retrieves the crash info for single motorcycle injuries in 2018. What is specific to this query is that it calls for motorcycle crashes that were individual of any external vehicle involvement. The tables used for accomplishing this query are: wc\_accident\_f, wc\_accident\_victim\_f and WC\_ACCIDENT\_VEHICLE\_F. The fundamental clauses in this query are: “lower(rtrim(ltrim(vehicle\_type\_code))) in ('motorcycle')” which selects accidents involving only motorcycles as vehicles and “veh\_count = 1” which excludes accidents with more than one vehicle and lastly “v.accident\_id is null” which excludes accidents with non motorcycle passenger/driver injuries. There are two joins to wc\_accident\_victim\_f and WC\_ACCIDENT\_VEHICLE\_F. This is for retaining columns from victim table after excluding accidents with victims other than passenger or drivers of motorcycle.*

db2.query\_to\_table(db, """

*What is included in the basic crash info is accident time, accident date, reference marker, latitudes and longitudes, boro information, adress type (wether it is a midblock, intersection or highway), the intersection info (the streets which intersect), the accident description, the node id of the intersection, the number of victim injuries, the person role code, the sex of the victim, the victims age and the pre accident action (description of what the vehichle was doing).*

**SELECT**

c.[ACCIDENT\_TIME\_WID],

c.[ACCIDENT\_DT]

,[OFF\_STREET

,c.[X\_COORD]

,c.[Y\_COORD]

,c.[LATITUDE]

,c.[LONGITUDE]

,[SEGMENT\_ID]

,[SRC\_POLICE\_PRECINCT]

,[SRC\_ADDRESS\_TYPE]

,[SRC\_ON\_STREET]

,[SRC\_CROSS\_STREET]

,[SRC\_OFF\_STREET]

,[ACCIDENT\_DESC]

,[NODEID], [VICTIM\_NUM]

,[PED\_NONPED]

,[INJ\_KILLED]

,[VICTIM\_AGE]

,veh\_count

,[PERSON\_ROLE\_CODE]

,[VICTIM\_SEX] --MFU

,[DATE\_OF\_BIRTH]

,veh2.[VEHICLE\_NUM]

,[PRE\_ACDNT\_ACTION]

**FROM** forms.dbo.wc\_accident\_f c

**LEFT JOIN**

*Here we join to wc\_accident\_victim\_f on INTEGRATION\_ID = accident\_id This join is where the fundamental where clause “v.accident\_id is null” refers to. Here we retreive cases with at least one non-motor vehicle/motorcyclist occupant. It is possible motorcyclists to crash into people. However, we only want motorcyclists hitting inanimate objects.*

(**SELECT** distinct case when person\_role\_code in ('Pedestrian', 'Other', 'In-Line Skater') or ped\_nonped = 'Bicyclist'

then accident\_id end accident\_id **FROM** forms.dbo.wc\_accident\_victim\_f) v

on c.INTEGRATION\_ID = v.accident\_id

*This is for retaining columns from victim table after excluding accidents with victims other than passenger or drivers of motorcycle.*

**JOIN** forms.dbo.wc\_accident\_victim\_f v2

on c.INTEGRATION\_ID = v2.accident\_id

*Here we join to WC\_ACCIDENT\_VEHICLE\_F on INTEGRATION\_ID = accident\_id. This join is where the fundamental where clause “veh\_count = 1” refers to. Here we retreive the vehicle counts for each accident. However, we want to exclude cases with more than one vehicle.*

**JOIN**

( **SELECT** accident\_id, count(distinct vehicle\_num) veh\_count **FROM** FORMS.dbo.WC\_ACCIDENT\_VEHICLE\_F

group by accident\_id) veh

on c.integration\_id = veh.accident\_id

*This is for retaining columns from vehicle table after excluding accidents with more than one vehicle count*

**JOIN** forms.dbo.WC\_ACCIDENT\_vehicle\_F veh2

on c.integration\_id = veh2.accident\_id and v2.VEHICLE\_NUM = veh2.VEHICLE\_NUM

*The fundamental clauses are included here. They are “v.accident\_id is null” which excludes accidents with non motorcycle passenger/driver injuries, “lower(rtrim(ltrim(vehicle\_type\_code))) in ('motorcycle')” which selects accidents involving only motorcycles as vehicles and “veh\_count = 1” which excludes accidents with more than one vehicle.*

**WHERE** year(c.accident\_dt) = 2018 and

v.accident\_id is null

and lower(rtrim(ltrim(vehicle\_type\_code))) in ('motorcycle')

and inj\_killed = 'Injured'

and coalesce(c.VOID\_STATUS\_CD , 'N') ='N'

and coalesce(c.nonmv, 0) = 0

and veh\_count = 1

""")