# Safety Data Viewer Advanced Query NYSDOT Tables Documentation

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# Overview

This feature allows users to generate injury tables using different combinations of fields. Due to the structure of the NYSDOT data there are a number of conditions which are ambiguous and need to be counted in the unknown or not applicable categories for any given field. Each field has its own restrictions and when two fields are used in this cross tab function the most restrictive conditions of both fields get applied to the whole table. For example, when pedestrian action is crossed with motor vehicle action only pedestrian injuries (condition of pedestrian action) from crashes that involved only 1 motor vehicle (condition of motor vehicle action) are included. Any crashes with bike or motor vehicle occupants would be in the NA category of the pedestrian action and any crashes with more than 1 motor vehicle would be in the unknown category of the motor vehicle action.

The below is a list of available fields in the cross tab function with their restrictions.

## **Safety Data Viewer Data Fields**

**Universal Constraints:**

* years of analysis
* location of analysis
* exclude = 0

## **Core Table: nysdot\_all**

### **Year (case\_yr):** Year in which crash occurred.

Parameters:

* Type: int
* Accepted values:Any valid year between 2001 and the latest available year of data
* Unknowns: When null (should never occur)
* NA’s: None. All crashes contain a year.

### Time of Day (accd\_tme):Time at which crash occurred where time format is 24-hour clock. Crashes that occur at exactly midnight are considered unknown.

Parameters:

* Type: timestamp
* Accepted values: When time between 12:01am-11:59pm
* Unknowns:
  + When time is not between ’00:00’ to ’24:00’
  + When time is exactly midnight
  + When null
* NA’s: None. All crashes contain a timestamp.

### **Traffic Control (traf\_cntl):** Type of Traffic Control at the location where the crash occurred.

Parameters:

* Type: character varying
* Accepted Values:(‘01’,'02', '03', '04', '05', '06', '07', '08', '09', '10', '11', '12', '13', '14', '15', '16', '20', '??', 'XX', 'YY')
* Unknowns:
  + (‘ZZ’,’00’)
  + When null
* NA’s: None

### **Ped Action (ped\_actn):** Action of pedestrian in crash where the vehicle involved collided with a pedestrian. This is limited to pedestrian crashes. Here we must specify that accd\_type\_int = 1 to ensure we are identifying pedestrian actions.

Parameters:

* Type: character varying
* Accepted values: (‘01’,'02', '03', '04','05','06','07','08', '09','10','11','12', '13','14')
* Unknowns:
  + ('??','YY','XX', 'ZZ')
  + When null
* NA’s: When accd\_type\_int != 1

### **Severity (ext\_of\_inj):** Severity of injuries for each victim involved in crash (limited to 5). Severity is calculated by counting the number of occurrences of each letter in the ext\_of\_inj field. The victim is defined by accident type, which is at the crash level. The number of injuries and the number of fatalities (num\_of\_inj and num\_of\_fat) fields are required when using the ext\_of\_inj in order to calculate the number of unknown severity injuries. Fatality information always comes from the fatality table, not NYSDOT, so any Ks in the ext\_of\_inj and the num\_of\_fat fields are not used in reporting.

Parameters:

* Type: character varying
* Accepted values: ('A','B', 'C')
* Unknown:
  + When len(ext\_of\_inj) != (num\_of\_inj+num\_of\_fat) or ext\_of\_inj in ('X', 'U' **)**
* NA’s: None

### **Loc (loc):** Location Type at which crash occurred. ‘H’ which denotes a highway crashes is an unacceptable value because highway crashes are excluded from analysis.

Parameters:

* Type: character varying
* Accepted values: ('MID', 'INT’)
* Unknowns:
  + When null
* NA’s: None

### **Mode (accd\_type\_int):** Mode of travel of injured victim involved in crash.

Parameters:

* Type: int
* Accepted values: (1,2,3)
* Unknowns:
  + When null
* Na’s: None

## **Vehicle Table: nysdot\_all\_vehicle**

### **Taxi/Livery (rgst\_typ):** Boolean of whether or not crash involved at least one Taxi/Livery.

Parameters:

* Type: character varying
* Accepted values: (’54’, ’55’)
* Unknowns: None
* Na’s: None. Every crash is either taxi/livery or other.

### **Vehicle Type (veh\_typ):** The type of vehicle involved in crash where only 1 motor vehicle was involved. Crashes with more than 1 motor vehicle are considered unknown.

Parameters:

* Type: character varying
* Accepted values:('1', '2', '3', '4')
* Unknowns:
  + ('0')
  + When motor vehicle count is greater than 1 (bicycles and pedestrians recorded in the vehicle table are not included in the motor vehicle count)
  + When null
* NA’s: None. All Crashes in the database involve at least 1 motor vehicle.

### **MVO Pre Action (pre\_accd\_actn):** Action of motor vehicle in crash where only 1 motor vehicle was involved. Crashes with more than 1 motor vehicle are considered unknown.

Parameters:

* Type: character varying
* Accepted values: ('01','02','03','04', '05','06','07','08', '09','10','11','12', '13','14','15','16','17','18','20')
* Unknown:
  + ('??','YY','XX', 'ZZ')
  + When motor vehicle count is greater than 1 (pre actions of bicycles and pedestrians that are recorded in the vehicle table are not included in the motor vehicle pre action count)
  + When null
* NA’s: None. All Crashes in the database involve at least 1 motor vehicle.

### **Bike Pre Action (pre\_accd\_actn):** Bike Action at time of Crash

Parameters:

* Type: character varying
* Accepted values: ('01','02','03','04', '05','06','07','08', '09','10','11','12', '13','14','15','16','17','18','20')
* Unknown:
  + ('??','YY','XX', 'ZZ')
  + When bicycle count is greater than 1 (pre actions of bicycles that are recorded in the vehicle table are not included in the bicycle pre action count
  + When null
* NA when accd\_type\_int != 2

### **Age (age):** Age of injured victim involved in crash. Only reported for pedestrian and bicyclist injuries. For motor vehicle occupant injuries, only the age of the driver is reported, but whether the driver or passenger was injured is unknown.

Parameters:

* Type: character varying
* Accepted values: (1-120)
* Unknowns:
  + When age greater than 120
  + When age = 0
  + When accd\_type\_int = 1 and veh table ped count !=1
  + When accd\_type\_int = 2 and veh table bike count !=1
  + When null
* NA’s: When accd\_type\_int = 3

### **Sex (sex):** Sex of injured victim involved in crash. Only reported for pedestrian and bicyclist injuries. For motor vehicle occupant injuries, only the Sex of the driver is reported, but whether the driver or passenger was injured is unknown.

Parameters:

* Type: character varying
* Accepted values: (M,F)
* Unknowns:
  + When sex not in (M,F)
  + When accd\_type\_int = 1 and veh table ped count !=1
  + When accd\_type\_int = 2 and veh table bike count !=1
  + When null
* NA’s: When accd\_type\_int = 3