

SAMPLE SQL QUERY: DISTRACTED DRIVER CRASHES 2015-2017, WITH RESULTS

As of the 2016 code year, for Property Damage Only (PDO) crashes, we no longer collect data for most VHCL and PARTIC fields. Events and Causes are collected only at the CRASH level. Action is collected at the VHCL level. Error is not collected. So, we had to revise our SQL queries for Distracted Driving (and other Causes, Events, Errors and Actions) to capture data “before & after” the data collection change, using two separate subqueries. Note the comments (green text) in the sample query below.

```
Select CRASH.CRASH_YR_NO,
       Count(distinct CRASH.CRASH_ID) as 'Crashes',
       Sum(CRASH.TOT_FATAL_CNT) as 'Deaths',
       Sum(CRASH.TOT_INJ_CNT) as 'Injuries'
```

```
From CRASH
```

1st subquery: Outputs ALL Distracted Driving crashes for selected years PRIOR to 2016, and only Fatal & Injury Distracted Driving crashes for years 2016 and later (PDO's are accumulated in the 2nd subquery)

```
Where (CRASH.CRASH_ID in
       (Select distinct CRASH.CRASH_ID
        From CRASH, PARTIC, PARTIC_CAUSE_ERR_EVNT
        Where CRASH.CRASH_ID = PARTIC.CRASH_ID and
              PARTIC.CRASH_ID = PARTIC_CAUSE_ERR_EVNT.CRASH_ID and
              PARTIC.PARTIC_ID = PARTIC_CAUSE_ERR_EVNT.PARTIC_ID and
              CRASH.CRASH_YR_NO >= '2015' and CRASH.CRASH_YR_NO <= '2017' and ← year range (results below)
              (PARTIC.ACTN_CD in ('010','038') or ← 1st condition
              (PARTIC.PARTIC_TYP_CD = '1' and ← 2nd condition specifies “driver” & ANY distraction
              (PARTIC_CAUSE_ERR_EVNT.PARTIC_CAUSE_1_CD = '27' or
              PARTIC_CAUSE_ERR_EVNT.PARTIC_CAUSE_2_CD = '27' or
              PARTIC_CAUSE_ERR_EVNT.PARTIC_CAUSE_3_CD = '27' or
              PARTIC_CAUSE_ERR_EVNT.PARTIC_ERR_1_CD = '016' or
              PARTIC_CAUSE_ERR_EVNT.PARTIC_ERR_2_CD = '016' or
              PARTIC_CAUSE_ERR_EVNT.PARTIC_ERR_3_CD = '016' or
              PARTIC_CAUSE_ERR_EVNT.PARTIC_EVNT_1_CD In ('002', '003', '093', '099', '102', '115', '116') or
              PARTIC_CAUSE_ERR_EVNT.PARTIC_EVNT_2_CD In ('002', '003', '093', '099', '102', '115', '116') or
              PARTIC_CAUSE_ERR_EVNT.PARTIC_EVNT_3_CD In ('002', '003', '093', '099', '102', '115', '116')))))) or
```

2nd subquery: Outputs the remaining PDO Distracted Driver crashes for years 2016 & later. Query Cause & Event from the CRASH_CAUSE_EVNT table.

```
(CRASH.CRASH_ID in
 (Select distinct CRASH.CRASH_ID
  From CRASH, CRASH_CAUSE_EVNT
  Where CRASH.CRASH_ID = CRASH_CAUSE_EVNT.CRASH_ID and
        CRASH.CRASH_YR_NO in ('2016', '2017') and ← years affected by PDO Default coding
        CRASH.CRASH_SVRTY_CD = '5' and ← limits subquery results to PDO crashes only
        (CRASH_CAUSE_EVNT.CRASH_CAUSE_1_CD = '27' or ← only Driver records are coded for PDOs, and...
        CRASH_CAUSE_EVNT.CRASH_CAUSE_2_CD = '27' or ← ... only CRASH level distractions are coded
        CRASH_CAUSE_EVNT.CRASH_CAUSE_3_CD = '27' or
        CRASH_CAUSE_EVNT.CRASH_EVNT_1_CD In ('002', '003', '093', '099', '102', '115', '116') or
        CRASH_CAUSE_EVNT.CRASH_EVNT_2_CD In ('002', '003', '093', '099', '102', '115', '116') or
        CRASH_CAUSE_EVNT.CRASH_EVNT_3_CD In ('002', '003', '093', '099', '102', '115', '116')))))
```

```
Group by CRASH.CRASH_YR_NO
Order by CRASH.CRASH_YR_NO
```

QUERY RESULTS:

Crash_Yr_No	Crashes	Deaths	Injuries
2015	4103	11	3495
2016	4167	31	4076
2017	4708	33	4669