SAFETYNET Query Applications

Practice Exercises
Pick one or more of the following to practice writing queries (or another application of your choice). Discuss with the others at your table. Flip past this first page to see some possible solutions for each challenge.

Crash Module
1. Identify which crash records were last edited by a specific user in a specific time period.
2. Identify any records for a certain time period where the “HM Cargo Released” field is blank.
3. Find any interstate or intrastate carrier records where the DOT# is blank.
4. Identify all the records that are marked a size and weight for a certain time period
5. Identify Class 6 and Class 8-11 vehicles in your crash data that could have an incorrect GVWR listed for 2019. Hint: All “vehicle configurations” with a value of 6 or 8-11 should have a GVWR>26000 lbs., meaning that in the record, GVWR should be equal to “3.”
6. Search for records where the driver’s license is blank.
7. Locally defined fields practice. Query to find out which crash records were driverless because:
   a. Parked vehicle
   b. Stolen vehicle
   c. Hit and run

Inspection Module
1. Query inspections by vehicle type and inspection level
2. Query inspections by inspector code and inspection level
3. Identify how many drivers or vehicles were put out of service (“Driver OOS” or “Vehicle OOS”)
   a. In a certain time period
   b. By inspector code
4. Look for specific violations
   a. In a certain time period
   b. By level of inspection
5. Identify all of the records that occurred in a certain area (e.g. county, road (hint: use wildcard), between mileposts, etc.)
6. What queries could you write that would help pull certification numbers for officers?
   a. States differ, but they all have certain requirements for officers to maintain certification; i.e., they need to perform a certain number of inspections per year, such as ___ bus inspections, ___ level 1 or 5 inspections, or ___cargo tank inspections, etc.).
7. Locally defined fields practice. Query to find out which inspection records:
   a. Had a duty status of “OT”
   b. Were “CDL checked”
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Answers to Practice Exercise Questions

Crash Module

1. Identify which crash records were last edited by a specific user in a specific time period.
   a. Last Edit Date >= _____ AND
   b. Last Edit Date <= _____ AND
   c. Last Edit UserID = _____ (e.g. SNETADMIN)

2. Identify any records for a certain time period where the “Driver License #” field is blank.
   a. Last Edit Date >= _____ AND
   b. Last Edit Date <= _____ AND
   c. Driver Lic. # Is blank

3. Find any interstate or intrastate carrier records where the DOT# is blank.
   a. Crash Date >= ______ AND
   b. Crash Date <= _______ AND
   c. USDOT # Is blank AND
   d. (Interstate = Interstate OR
      e. Interstate = Intrastate)

4. Identify all the records that are marked a size and weight for a certain time period.
   a. Crash Date >= _____ AND
   b. Crash Date <= _____ AND
   c. GVWR = _____ AND
   d. Vehicle Configuration = _____

5. Identify Class 6 and Class 8-11 vehicles in your crash data that could have an incorrect GVWR listed for 2019.
   a. Crash Date >= 1/01/2019 AND
   b. Crash Date <= 12/31/2019 AND
   c. GVWR <> 3 – Greater than 26,000 lb AND
   d. (Vehicle Configuration = 6 – Single Unit Truck (3 or more axles) OR
      e. Vehicle Configuration = 8 – Truck Tractor (bobtail) OR
      f. Vehicle Configuration = 9 – Tractor/Semitrailer OR
      g. Vehicle Configuration = 10 – Tractor/Double OR
      h. Vehicle Configuration = 11 – Tractor/Triple)

6. Locally defined fields practice. Query to find out which crash records were driverless because:
   a. Parked vehicle
      i. Optional Field Description = Driverless – Parked AND
      ii. Optional Value = 1
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b. Stolen vehicle
   i. Optional Field Description = Driverless – Stolen AND
   ii. Optional Value = 1

c. Hit and run
   i. Optional Field Description = Driverless – Hit and Run AND
   ii. Optional Value = 1

Inspection Module
1. Query inspections by vehicle type and inspection level
   a. Start Date >= _____ AND
   b. Start Date <= _____ AND
   c. Vehicle Type = _____ AND
   d. Insp. Level = _____

2. Query inspections by inspector code and inspection level
   a. Start Date >= _____ AND
   b. Start Date <= _____ AND
   c. Inspector Code = _____ AND
   d. Insp. Level = _____

3. Identify how many drivers or vehicles were put out of service (“Driver OOS” or “Vehicle OOS”)
   a. In a certain time period
   b. By inspector code
      i. (Driver OOS = Yes OR
         ii. Vehicle OOS = Yes) AND
      iii. Start Date >= _____ AND
      iv. Start Date <= _____ AND
      v. Inspector Code = _____

4. Look for specific violations
   a. In a certain time period
   b. By level of inspection
      i. Federal Violation = _____ (alternatively, use “like” instead of “=” to get multiple violation subtypes within a single type)
      ii. Start Date >= _____ AND
      iii. Start Date <= _____ AND
      iv. Insp. Level = _____
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5. Identify all of the records that occurred in a certain area (e.g. county, road (hint: use wildcard), between mileposts, etc.)
   a. Start Date >= ______ AND
   b. Start Date <= ______ AND
   c. Milepost >= ____ AND
   d. Milepost <= ____ AND
   e. Location Description Like ___ (e.g. SR-9)
   f. County Code - FIPS = ___

6. What queries could you write that would help pull certification numbers for officers? States differ, but they all have certain requirements for officers to maintain certification; i.e., they need to perform a certain number of inspections per year, such as ___ bus inspections, ___ level 1 or 5 inspections, etc.).
   a. Start Date >= _____ AND
   b. Start Date <= _____ AND
   c. Inspector Code = _____ AND
   d. Insp. Level = ______
   e. Truck/Bus = ___

7. Locally defined fields practice. Query to find out which inspection records:
   a. Had a duty status of “OT”
      i. Optional Field Description = DUTY STATUS: AND
      ii. Optional Value = OT
   b. Were “CDL checked”
      i. Optional Field Description = CDL Checked AND
      ii. Optional Value = 1