SAFETYNET: Queries

Learn by Example

This document outlines and illustrates several SAFETYNET queries based on topics provided by SAFETYNET analysts.

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How to use this document

The queries have been grouped by Inspection and Crash. Locate a topic of interest and set up the query in SAFETYNET as specified or modify it to fit your needs.

The queries include the usage of date ranges, comparison operators, usage of AND/OR, wildcards and parentheses. To get the most out of this document, play around with the queries' conditions and compare the results.

Most of these queries include a date range, it is always a good idea to start the query with a short date range. This can help you verify that the query is giving you what you want and it also ensures that you are not querying the whole database—especially when working with inspections!

Inspection Queries

Cargo Types:

This query can help you find inspections with a specific cargo being carried. One or many Cargo Types can be entered and you can always use a wildcard if you are not sure what the keyword should be.

In this example, we are looking for inspections from the years 2020, 2021 and 2022, where the Cargo Type field contains the words 'beer' or 'coffee' or 'chicken'. The Cargo Type field is a free-text field, it can be anything. The wildcard symbol '%' allows the query to return record where the Cargo Type contains any of those keywords.

Query Conditions

(	(	(	Field	Comparison	Value	)	)	)	And/Or
		(	Start Date	>=	01/01/2020				And
			Start Date	<=	12/31/2022	)			And
		(	Cargo Type	Like	%beer				Or
			Cargo Type	Like	%coffee				Or
			Cargo Type	Like	%chicken	)			

Date Range:

Using a date range can help you narrow down the results. Different date fields can be used for different purposes. Here are some examples:

Inspection Date

Use the inspection date if you are looking for inspections from a specific month, or from a full calendar/fiscal year. This query returns inspections from fiscal year 2022.

Query Conditions

(	(	(	Field	Comparison	Value	)	)	)	And/Or
		(	Start Date	>=	10/01/2021				And
			Start Date	<=	09/30/2022	)			

Upload Date

The Upload Date field can be used to find records that have been uploaded to MCMIS on a particular date or date range.   Use this query to find inspections that were uploaded on 2/25/2022.

Query Conditions

(	(	(	Field	Comparison	Value	)	)	)	And/Or
			Upload Date	=	02/25/2022				

Driver:

If you are trying to find inspections for a specific driver, there are several fields that could be used. Use the '=' operator if you know the exact information or the 'Like' operator in conjunction with a wildcard symbol '%', if unsure.

Driver License

Some license numbers contain non-alphanumeric characters like a dash ('-'). However, having a dash as the first character would not be considered a legitimate entry.   This query finds those entries.

Query Conditions

(	(	(	Field	Comparison	Value	)	)	)	And/Or
			Driver Lic. #	Like	-				

Driver Last Name

Using a wildcard here returns all inspections where the Driver Last Name contains the letter 'bel' anywhere in the name: Campbell, Bell, Belton, etc.

Query Conditions

(	(	(	Field	Comparison	Value	)	)	)	And/Or
			Driver Last Name	Like	%bel%				

Hazmat:

This query finds inspections that have HM. This query includes those inspections where the USDOT# and State Census are blank.

Query Conditions

(	(	(	Field	Comparison	Value	)	)	)	And/Or
			Start Date	>=	01/01/2020				And
			Start Date	<=	06/30/2020				And
			HMs - Total	>	0				And
			USDOT #	Is blank					And
			State Census #	Is blank					

Inspection Level:

Inspections with a specific inspection level can be found with a query similar to this. In this example, we are looking for inspections where the Inspection Level is 3 – Driver-Only.

Query Conditions

(	(	(	Field	Comparison	Value	)	)	)	And/Or
			Start Date	>=	01/01/2020				And
			Start Date	<=	03/31/2020				And
			Insp. Level	=	3 - Driver-Only Inspection				

Inspection Locations:

If you are interested in inspections being performed at a certain location, use this query to find them. In this query, inspections from the year 2020 that have a location that included 'SR-161' are returned.

Query Conditions

(	(	(	Field	Comparison	Value	)	)	)	And/Or
			Start Date	>=	01/01/2020				And
			Start Date	<=	12/31/2020				And
			Location Description	Like	%SR-161%				

Inspector Codes:

Inspections performed by an inspector can be found by using the Inspector Code field. This query returns all the Level 1 inspections performed by inspector 'IN9881' performed during the months of January to March 2020.

Query Conditions

(	(	(	Field	Comparison	Value	)	)	)	And/Or
			Start Date	>=	01/01/2020				And
			Start Date	<=	03/31/2020				And
			Insp. Level	=	1 - Full Inspection				And
			Inspector Code	=	IN9881				

Locally Defined Fields:

Use the locally defined fields Description and Value fields to find inspections with the given value for the corresponding field. In this example, we are looking for inspections from 2020 where the locally defined field 'DUTY STATUS:' has a value equals to 'RT'.

Query Conditions

(	(	(	Field	Comparison	Value	)	)	)	And/Or
			Start Date	>=	01/01/2020				And
			Start Date	<=	12/31/2020				And
			Optional Field Description	=	DUTY STATUS:				And
			Optional Value	=	RT				And

Timeliness:

Find inspections from the past 21 days that have not been uploaded to MCMIS yet.

(	(	(	Field	Comparison	Value	)	)	)	And/Or
		(	Optional Field #	=	8				And
			Optional Value	=	RT	)			And
			Start Date	>=	01/01/2021				And
			Start Date	<=	12/31/2021				

Vehicle Types:

Inspections with specific Vehicle Types can be found with a query like this. In this query, level 1 inspections that were performed in January to March 2020 and where the Vehicle Type is equals to 'Motor Coach' are returned.

Query Conditions

(	(	(	Field	Comparison	Value	)	)	)	And/Or
			Start Date	>=	01/01/2020				And
			Start Date	<=	03/31/2020				And
			Insp. Level	=	1 - Full Inspection				And
			Vehicle Type	=	Motor Coach				

Vehicle VIN:

If you would like to find inspections where the VIN for unit 1 is blank, use this query.

Query Conditions

(	(	(	Field	Comparison	Value	)	)	)	And/Or
			Start Date	>=	03/01/2020				And
			Start Date	<=	03/31/2020				And
			Vehicle Unit Num	=	1				And
			Vehicle VIN	Is blank					

Violation Codes:

Inspections with specific violation codes can be found by using this query. This query returns any inspection that have the violation code '392.16'.

Query Conditions

(	(	(	Field	Comparison	Value	)	)	)	And/Or
			Start Date	>=	01/01/2020				And
			Start Date	<=	03/31/2020				And
			Federal Violation	=	392.16				

Crash Queries

Carrier:

Carriers can be queried by several fields, name, address, USDOT number, etc.

Carrier Name

If you would like to find all crash records for a specific carrier and you know the actual carrier name, use the '=' operator.   If not, use the 'Like' operator together with the wildcard symbol '%'. This query finds all crash records where the carrier name includes the keywords 'TRANS' and 'TRUCK'.

Query Conditions

(	(	(	Field	Comparison	Value	)	)	)	And/Or
			Carrier Name	Like	%TRANS%TRUCK%				

Carrier Types

The carrier type field can be confusing because its name is Interstate.   The field Interstate may have the different carrier type values like Interstate, Intrastate, Not in Commerce – Other Trucks, etc.   To find the crash records from January 2022 where the carrier type is either Interstate or Intrastate, use this query.

Query Conditions

(	(	(	Field	Comparison	Value	)	)	)	And/Or
		(	Crash Date	>=	01/01/2022				And
			Crash Date	<=	01/31/2022	)			And
	(		Interstate	=	Intrastate				Or
			Interstate	=	INTERSTATE	)			

USDOT Number:

This query finds crash records where the carrier type is Interstate and the USDOT number field is blank.

Query Conditions

(	(	(	Field	Comparison	Value	)	)	)	And/Or
			Crash Date	>	12/01/2020				And
			Interstate	=	INTERSTATE				And
			USDOT #	Is blank					

County Code:

Find crash records that have taken place in a particular county by using this query.   In this example, we are looking for crash records from 2020 that have taken place in the county with code '047'.

Query Conditions

(	(	(	Field	Comparison	Value	)	)	)	And/Or
			Crash Date	>=	01/01/2020				And
			Crash Date	<=	12/31/2020				And
			County Code - FIPS	=	047				

Date Range:

There are several dates in the crash records, the following are very popular.

Crash Date

This query returns all crash records that occurred in 2021.

Query Conditions

(	(	(	Field	Comparison	Value	)	)	)	And/Or
		(	Crash Date	>=	01/01/2021				And
			Crash Date	<=	12/31/2021	)			

Import Date

The Import Date field can tell you when a record was imported into SAFETYNET. This query returns records that were imported in the past month and the driver license number is blank.

Query Conditions

(	(	(	Field	Comparison	Value	)	)	)	And/Or
			Import Date	>=	Current Date - 30				And
			Driver Lic. #	Is blank					

Fatal Crashes:

If a crash record has one or more fatalities, it is considered a fatal crash. This query returns fatal crashes that took place between July and December of 2020.

Query Conditions

(	(	(	Field	Comparison	Value	)	)	)	And/Or
			Crash Date	>=	07/01/2020				And
			Crash Date	<=	12/31/2020				And
			Fatalities	>	0				

GVWR:

The GVWR field is used to indicate the weight range of the vehicle. Vehicles with a GVWR = 1 (under 10,001 lbs) are considered non-reportable unless the vehicle is a bus or it carries HM. This query finds any crash records that were imported in the past 90 days and that have a GVWR = 1.

Query Conditions

(	(	(	Field	Comparison	Value	)	)	)	And/Or
			Import Date	>=	Current Date - 90				And
			GVWR	=	1 - Less than or equal to 10,000 lb				

Reporting Agency:

To find all crash records submitted by a particular agency, build a query like this. In this example, all records that have 'Gary City' in the Reporting Agency field will be displayed.

Query Conditions

(	(	(	Field	Comparison	Value	)	)	)	And/Or
			Crash Date	>=	01/01/2020				And
			Crash Date	<=	06/30/2020				And
			Reporting Agency	Like	%Gary City%				

Timeliness:

This query helps you find crash records that are over 90 days old and have not been uploaded to MCMIS yet.

			Field	Comparison	Value				And/Or
			Crash Date	<	Current Date - 90				And
			Upload Date	Is blank					

Query Conditions

Verified Checkbox:

The Verified checkbox can help you identify crash records that have been flagged by checking the box.   If the checkbox is checked, the value is 'Yes'.   If the checkbox is not checked, its value is 'No'.   In this example, we are looking for crash records from 2020 where the Verified checkbox has not been checked

Query Conditions

			Field	Comparison	Value				And/Or
			Crash Date	>=	01/01/2020				And
			Crash Date	<=	12/31/2020				And
			Verified	=	No				