isNull, isEmpty, isBlank

isNull Operator

The isNull operator takes a single parameter and returns a Boolean value: True if the variable is indeed null, or false if the variable contains a value other than null.

In addition to isNull, isEmpty can be used to find strings containing no characters or whitespace; isBlank can be used to find strings made up of only whitespace (or is empty or null). Because each of these operators has a specific use, and are very closely related, you'll find them documented together.

When is a field null?

Fields can hold a null value for the following reasons:

• There is a mismatch from a lookup operator query.
• There is a missing field from a geo lookup operator query.
• There is a missing field from a transpose operator query.

When to use isNull, isEmpty, isBlank

isNull(str): Checks if the field value presented is "null".

```java
isNull(null) = true
isNull("") = false
isNull(" ") = false
isNull("bob") = false
isNull(" bob ") = false
```

Parameters:

str: the String to check, may be null.
Returns:

true if the String is null.

isEmpty(str): Checks if the field value is an empty string containing no characters or whitespace.

isEmpty(null) = true
isEmpty("") = true
isEmpty(" ") = false
isEmpty("bob") = false
isEmpty(" bob ") = false

Parameters:

str: The String to check, may be null.

Returns:

true if the String is null or empty.

isBlank(str): Checks if the field value is a null, an empty string or a string containing only whitespace characters.

isBlank(null) = true
isBlank("") = true
isBlank(" ") = true
isBlank("bob") = false
isBlank(" bob ") = false

Parameters:

str: The String to check, may be null.

Returns:

true if the String is null, empty or whitespace.
Examples

**isNull**: Run a geo lookup query where we can find remote IP addresses that are not in the geo database.

In this situation, no `country_code` will be associated with the IP address (this field would be null).

Running a query like:

```
| parse "remote_ip=*" as remote_ip
| lookup country_code from `geo://location` on ip = remote_ip
| if (isNull(country_code), "unknown", country_code) as country_code
```

returns results similar to:

![Query Results](image)

Use **where** to check for null values.

To check for null values from a lookup operation, use a query like:

```
| parse "example_ip=*" as ip
| lookup country_name, city from `geo://location` on ip = ip
| where isNull(country_name)
```