

# Searching Quick Reference

## Keyword, dtSearch, and Lucene search comparison

Feature	Keyword	dtSearch	Lucene Search
Exact phrase <sup>1</sup>	✓	✓	✓
Operators: AND, OR, NOT	✓	✓	✓
Wildcards: one or many characters (*)	✓	✓	✓
Wildcards: any single character (?)		✓	✓
Word stemming (~)		✓	
Fuzzy searching (%)		✓	
Fuzzy searching (~#)			✓
Proximity		✓	✓
Proximity: xfirstword (apple W/5 xfirstword)		✓	
Proximity: xlastword (apple W/5 xlastword)		✓	
Index and Search Special characters		✓	
Configure stop words <sup>1</sup>		✓	
Email, date, and credit card recognition		✓	
Regular expressions		✓	✓
Range searching, text fields		✓	
Range searching, date and numerical fields		✓	✓
Alphabet file <sup>2</sup>		✓	
Index automatically populated	✓		✓

1. In Lucene Search, you must use quotes to search for an exact phrase. In dtSearch, you can search for an exact phrase with or without quotes.  
 2. dtSearch supports pre-configured editable alphabet and stop words lists, but Lucene search does not.

## Field types and filter types

Field Type	Boolean	Text box	Single Choice List	Multi-Choice List	Pop-up	Custom/Advanced
Fixed Length Text		✓	✓			✓
Long Text		✓ <sup>3</sup>				
Date		✓				✓
Number (Whole, Decimal, Currency)		✓				✓
Yes/No	✓					
Single Choice			✓		✓	
Multiple Choice				✓	✓	
Single Object		✓	✓		✓	
Multiple Object		✓		✓	✓	

3. Only works if the field is NOT enabled for Data Grid

## Keyword search strings and operators

Search String	Results
salt pepper	The word <b>salt</b> <i>and</i> <b>pepper</b>
salt and pepper	The words <b>salt</b> <i>and</i> <b>pepper</b>
salt or pepper	The word <b>salt</b> <i>or</i> the word <b>pepper</b>
salt, pepper	The word <b>salt</b> <i>or</i> the word <b>pepper</b>
"salt and pepper shaker"	The exact phrase <b>salt and pepper shaker</b>
salt not pepper	The word <b>salt</b> but <i>not</i> the word <b>pepper</b>
salt*	Any word that begins with <b>salt</b> (e.g., salted, saltiness)

## dtSearch strings and operators

dtSearch string	Results
salt pepper	The exact phrase <b>salt pepper</b>
salt and pepper	The word <b>salt</b> and the word <b>pepper</b>
"salt and pepper shaker"	The exact phrase <b>salt and pepper shaker</b>
salt or pepper	Either <b>salt</b> or <b>pepper</b>
salt w/5 pepper	<b>Salt</b> appears within five words of <b>pepper</b>
salt NOT w/5 pepper	<b>Salt</b> does not appear within five words of <b>pepper</b>
salt pre/5 pepper	<b>Salt</b> appears within five words <i>before</i> <b>pepper</b>
salt and not pepper	<b>Salt</b> appears but <b>pepper</b> does not
salt*	Any word that begins with <b>salt</b> (e.g., salted, saltiness)

## dtSearch fuzzy, stemming, and numeric range searching

Character	Definition	Example
%	Fuzzy searching	"app%" matches apply and apple, but not applied
~	Stemming	"apply~" matches apply, applied, applies, and so on

## Search operators and field types for saved searches

Operator	Fixed length text, Long text, Extracted text	Whole number, Decimal, Currency	User	Date	Yes/No	Single choice, Multiple choice
All of these, Not all of these						✓
Any of these			✓			✓
Between				✓		
Contains	✓ <sup>4</sup>					
Does not contain	✓ <sup>4</sup>					
Is	✓ <sup>4</sup>	✓		✓	✓	
Is after, Is after or on				✓		
Is before, Is before or on				✓		
Is greater than	✓ <sup>4</sup>	✓				
Is in				✓		
Is less than	✓ <sup>4</sup>	✓				
Is like	✓ <sup>4</sup>					
Is logged in user			✓			
Is not	✓ <sup>4</sup>	✓		✓	✓	
Is not like	✓ <sup>4</sup>					
Is not set	✓	✓	✓	✓	✓	✓
Is set	✓	✓	✓	✓	✓	✓
None of these			✓			✓

4. Only works if the field is NOT enabled for Data Grid

## Filters

Filter	Description
Boolean	Available for Yes/No field types. Conditions display a drop-down list similar to list filters.
CustomOnly	Uses filtering criteria from advanced and Boolean operators.
List	Usually associated with fields used for coding documents. Conditions vary by the type and purpose of the field associated with it.
Multi-list	Uses multiple conditions from a drop-down menu. You can connect the conditions with the OR or AND operator.
Popup Pickers	Contains values for multiple or single choice fields, as well as multiple or single choice objects.
Textbox	Used to search on specific terms, numbers, and dates. You can enter multiple terms connected by any of the following operators: <ul style="list-style-type: none"> <li>▪ AND</li> <li>▪ OR</li> <li>▪ BETWEEN</li> <li>▪ = (equal)</li> <li>▪ &gt;= (greater than or equal to)</li> <li>▪ &lt;= (less than or equal to)</li> <li>▪ % (to filter for NOT null)</li> </ul>

## dtSearch and Lucene search special character indexing comparison

Character/string	Indexed in dtSearch <sup>5</sup>	Indexed in Lucene Search <sup>6</sup>
\$3,000	<b>3 000</b>	<b>3,000</b>
\$3, John	<b>3 John</b>	<b>3 John</b>
<u>jdoe@mail.com</u>	<b>jdoe mail com</b>	<b>jdoe mail.com</b>

5. Using the default alphabet and stop word list.  
6. Lucene Search doesn't index special characters, with the exception of comma and period only when they are surrounded by text.

## Lucene Search search strings and operators

Search String	Results
salt	The word <b>salt</b>
"salt pepper" <sup>7</sup>	The exact phrase <b>salt pepper</b>
salt AND pepper	The word <b>salt</b> and the word <b>pepper</b>
salt && pepper	The word <b>salt</b> and the word <b>pepper</b>
salt OR pepper	Either the word <b>salt</b> or the word <b>pepper</b>
salt    pepper	Either the word <b>salt</b> or the word <b>pepper</b>
salt NOT pepper	The word <b>salt</b> appears but <b>pepper</b> does not
salt*	Any word that begins with <b>salt</b> (e.g., salted, saltiness)
"salt pepper"~5	The word <b>salt</b> appears within five words of <b>pepper</b>
pepp~2	Any word that is similar to, but not exactly like <b>pepp</b> , up to an edit distance of 2 (the default is 2)
pepp?r	Any word that begins with <b>pepp</b> and ends with <b>r</b> and has one character missing (e.g., pepper)

7. You must use quotes when searching for an exact phrase using Lucene search.