

Microsoft Search KQL Cheat Sheet



STRUCTURE OF A KQL SEARCH

Keywords and operators:
 <keyword><operator><keyword>
 virtuas AND technology

Property restrictions and values:
 <property><operator><value>
 author:Shakespeare

OPERATORS

Non-symbol operators must be in CAPS.
Common operator symbols:

= equals	< less than
: contains	>= greater or equal
** range	" " exact phrase
<> not equal	* wildcard

PROXIMITY SEARCH

NEAR: words near each other, in any order (N shows word distance)
 virtuas NEAR technology
 virtuas NEAR(n=3) technology

ONEAR: find results with words in the exact order of the search query
 virtuas ONEAR technology
 virtuas ONEAR(n=3) technology

BOOLEAN SEARCH

Requirement: Use "AND" or "+"
 virtuas AND technology
 +virtuas +technology

Exclude: Use "NOT" or "-"
 virtuas NOT technology
 -virtuas -technology

Include Any: Use "OR"
 virtuas OR technology

WILDCARD (PREFIX SEARCH) virtuas tech*

To find results that start with your search terms use * Will yield technology or technical

PROPERTY RESTRICTIONS IN KQL

File Name (contains) filename=virtuas	File Name (exact title) filename=virtuas.pdf	Grouping Combine multiple property restrictions by using parentheses title: ((virtuas OR technology) - application)
File Type filetype:pdf	Last Modified (range) lastmodifiedtime=2021-01-27...2021-01-31	
Document Title title:"virtuas tech"	Author author:Anne author:"Anne Hatha**"	

DYNAMIC RANKING (XRANK)

Change the rank of items based on term occurrences

n: number of results to compute from (0 is all of the documents)	stdb: standard deviation boost
nb: promote or demote an item	avgb: average boost
cb: constant boost	rb: range boost
	pb: percentage boost

Syntax:
 <match expression> XRANK(cb=100, rb=0.4, pb=0.4, avgb=0.4, stdb=0.4, nb=0.4, n=200) <rank expression>
 (tech OR apps) XRANK (cb=100, nb=1.5) virtuas

Will find items that have either "tech" or "apps" but will increase the rank of items with a cb of 100 and an nb of 1.5 for items that also have "virtuas"