ES | QL Cheat Sheet



Binary Operators			Logical Operators	Basic Functions		
Equality	==	Add	+	AND	DROP	LIMIT
Inequality	! =	Subtract	-	OR	IN	RENAME
Less than	<	Multiply	*	NOT	CIDR_MATCH	RLIKE
Less than or equal to	<=	Divide	/		KEEP	SORT
Greater than	>	Modulus	%	NULL Handling	LIKE	WHERE
Greater than or equal to	>=			IS NULL		
				IS NOT NULL		

	Processing Commands					
Function	Syntax					
EVAL	<pre>EVAL [column1 =] value1[,, [columnN =] valueN]</pre>					
STATSBY	STATS [column1 =] expression1[, [columnN =] expression] [BY grouping_expression1[,, grouping_expresionN]					

STATSBY GROUPING Functions			
Function	Syntax		
BUCKET	BUCKET(expression, buckets, from, to)		

STATSBY Aggregate Functions					
Function	Syntax	Function	Syntax		
AVG	AVG(expression)	MIN	MIN(expression)		
COUNT	COUNT([expression])	PERCENTILE	PERCENTILE(expression, percentile)		
COUNT_DISTINCT	COUNT_DISTINCT(expression[, precision_threshold])	SUM	SUM(expression)		
MAX	MAX(expression)	TOP	TOP(field, limit, order)		
MEDIAN	MEDIAN(expression)	WEIGHTED_AVG	WEIGHTED_AVG(expression_weight)		
MEDIAN_ABSOLUTE_DEVIATION	MEDIAN_ABSOLUTE_DEVIATION(expression)				

String Functions					
Function	Syntax	Function	Syntax		
CONCAT	CONCAT(string1, string2[,, stringN])	RIGHT	RIGHT(string, length)		
ENDS_WITH	ENDS_WITH (string_field, prefix)	RTRIM	RTRIM(string)		
FROM_BASE64	FROM_BASE64(string)	SPLIT	SPLIT(string, delim)		
LEFT	LEFT(str, length)	STARTS_WITH	STARTS_WITH (string_field, prefix)		
LENGTH	LENGTH(str)	SUBSTRING	SUBSTRING(string, start, length)		
LTRIM	LTRIM(string)	TO_BASE64	TO_BASE64(string)		
LOCATE	LOCATE(string, substring, start)	TO_LOWER	TO_LOWER(string)		
REPEAT	REPEAT(string, number)	TO_UPPER	TO_UPPER(string)		
REPLACE	REPLACE(str, regex, newStr)	TRIM	TRIM(string)		

Date-Time Functions					
Function	Syntax	Function	Syntax		
DATE_DIFF	DATE_DIFF(unit, startTimestamp, endTimestamp)	DATE_PARSE	datePattern, dateString)		
DATE_EXTRACT	DATE_EXTRACT(datePart, date)	DATE_TRUNC	DATE_TRUNC(interval, date)		
DATE_FORMAT	DATE_FORMAT(dateFormat, date)	NOW	NOW()		

IP Functions					
Function	unction Syntax Function Syntax				
CIDR_MATCH	CIDR_MATCH(ip, blockX)	IP_PREFIX	<pre>IP_PREFIX(ip, prefixLengthV4, prefixLengthV6)</pre>		

Type Conversion Functions						
Function	Syntax	Function	Syntax	Function	Syntax	
TO_BOOLEAN	TO_BOOLEAN(field)	TO_DOUBLE	TO_DOUBLE(field)	TO_LONG	TO_LONG(field)	
TO_CARTESIANPOINT	TO_CARTESIANPOINT(field)	TO_GEOPOINT	TO_GEOPOINT(field)	TO_RADIANS	TO_RADIANS(number)	
TO_CARTESIANSHAPE	TO_CARTESIANSHAPE(field)	TO_GEOSHAPE	TO_GEOSHAPE(field)	TO_STRING	TO_STRING(field)	
TO_DATETIME	TO_DATETIME(field)	TO_INTEGER	TO_INTEGER(field)	TO_UNSIGNED_LONG	TO_UNSIGNED_LONG(field)	
TO_DEGREES	TO_DEGREES(number)	TO_IP	TO_IP(field)	TO_VERSION	TO_VERSION(field)	

	Multi Value Functions						
Function	Syntax	Function	Syntax	Function	Syntax		
MV_APPEND	MV_APPEND(field1, field2)	MV_FIRST	MV_FIRST(field)	MV_SLICE	MV_SLICE(field, start,end)		
MV_AVG	MV_AVG(number)	MV_LAST	MV_LAST(field)	MV_SORT	MV_SORT(field, order)		
MV_CONCAT	MV_CONCAT(string, delim)	MV_MAX	MV_MAX(field)	MV_SUM	MV_SUM(number)		
MV_COUNT	MV_COUNT(field)	MV_MEDIAN	MV_MEDIAN(field)	MV_ZIP	MV_ZIP(string1, string2, delim)		
MV_DEDUPE	MV_DEDUPE(field)	MV_MIN	MV_MIN(field)				

	Mathematical Functions						
Function	Syntax	Function	Syntax	Function	Syntax	Function	Syntax
ABS	ABS(N)	CEIL	CEIL(N)	LOG10	LOG10(N)	SINH	SINH(N)
ACOS	ACOS (N)	cos	COS(N)	PI	PI()	SQRT	SQRT(N)
ASIN	ASIN(N)	COSH	COSH(N)	POW	POW(BASE, EXPONENT)	TAN	TAN(N)
ATAN	ATAN(N)	E	E()	ROUND	ROUND(VALUE, DECIMALS)	TANH	TANH(N)
ATAN2	ATAN2(Y,X)	FLOOR	FLOOR(N)	SIGNUM	SIGNUM(N)	TAU	TAU()
CBRT	CBRT(N)	LOG	LOG([BASE], VALUE)	SIN	SIN(N)		

	Conditional Functions				
Function	Syntax	Function	Syntax		
CASE	CASE(condition, true_value, else_value)	GREATEST	GREATEST(first, rest)		
COALESCE	COALESCE(first, rest)	LEAST	LEAST(first, rest)		

Enrich Function				
Function	Syntax			
ENRICH	ENRICH enrich_policy			
	ENRICH enrich_policy on field_name			
	ENRICH enrich_policy on field_name WITH field1, field2			