

EXAMPLE	QUERIES	FUNCTIONS
<pre>create table if not exists Example (id integer, firstname string, lastname string, age integer, income integer, address record(street string, city string, state string, phones array(record(type enum(work, home), areacode integer, number integer)), connections array(integer), properties map(string), expenses map(integer), primary key(id))</pre> <pre>{ "id" : 1, "firstname" : "David", "lastname" : "Morrison", "age" : 25, "income" : 100000, "address" : { "street" : "150 Route 2", "city" : "Antioch", "state" : "TN", "phones" : [{ "type" : "home", "areacode" : 423, "number" : 8634379 }] }, "connections" : [2, 3], "properties" : { "height" : "5.5", "weight" : "180" }, "expenses" : { "books" : 500, "food" : 1000 } }</pre> <pre>{ "id" : 2, "firstname" : "John", "lastname" : "Anderson", "age" : 35, "income" : 100000, "address" : { "street" : "187 Hill Street", "city" : "Beloit", "state" : "WI", "phones" : [{ "type" : "home", "areacode" : 339, "number" : 1684972 }] }, "connections" : [1, 3], "properties" : { "height" : "6.0", "weight" : "190" }, "expenses" : { "books" : 100, "food" : 800, "travel" : 10000 } }</pre>	<p>ARITHMETIC OPERATORS SELECT id, income, income/12 AS monthsalary FROM Example;</p> <p>ARRAY CONSTRUCTOR SELECT lastName, [\$e.address.phones[\$element.areaCode = 423].number] AS phoneNumbers FROM Example \$e;</p> <p>COMPARISON OPERATORS SELECT lastname FROM Example e WHERE e.address.state = "TN";</p> <p>FIELDSTEP EXPRESSION SELECT id, e.address.city FROM Example e WHERE e.address.state = "TN";</p> <p>FILTERSTEP EXPRESSION SELECT lastName FROM Example e WHERE e.address.phones[].areaCode =any 423;</p> <p>FROM AS TABLE ALIAS SELECT lastname FROM Example AS e;</p> <p>FROM TABLE ALIAS SELECT lastname FROM Example e;</p> <p>FUNCTION CALL SELECT id, size(\$e.address.phones) AS registeredphones FROM Example \$e;</p> <p>INDEX HINT create index idx1 on Example (income);</p> <p>SELECT /*+ FORCE_INDEX(Example idx1) */ FROM Example where 90000 < income and income < 200000;</p> <p>LOGICAL OPERATORS SELECT lastname, age, income FROM Example WHERE age > 30 or income >= 100000;</p> <p>ORDER BY ASC SELECT id, lastname FROM Example ORDER BY id ASC;</p> <p>ORDER BY DESC SELECT id, lastname FROM Example ORDER BY id DESC;</p> <p>ORDER BY INDEX create index idx2 on Example (lastname);</p> <p>SELECT id, lastname FROM Example ORDER BY lastname;</p> <p>ORDER BY PRIMARY KEY SELECT id, lastname FROM Example ORDER BY id;</p> <p>PARENTHESESIZED EXPRESSION SELECT id, lastname FROM Example WHERE (age > 20 or age < 40) and income >= 100000;</p> <p>SELECT * SELECT * FROM Example;</p> <p>SELECT COLUMN(S) SELECT firstname, lastname, age FROM Example;</p> <p>SELECT COLUMN(S) AS SELECT lastname AS Surname FROM Example;</p> <p>SEQUENCE OPERATORS SELECT id, lastname, connections FROM Example WHERE connections[] =any 2;</p> <p>SLICESTEP EXPRESSIONS SELECT [connections[0:1]] as strongConnections FROM Example WHERE id = 1;</p> <p>WHERE SELECT id, lastname FROM Example WHERE firstname = "John";</p> <p>MAP FILTER STEPS SELECT id, e.expenses.keys(\$value > 700) from Example e;</p> <p>SELECT id, e.expenses.keys(\$value > \$.books) from Example e;</p> <p>SELECT id from Example e WHERE e.expenses.values(\$key != "books") >any 900;</p> <p>SEARCHED CASE SELECT id, CASE WHEN NOT EXISTS e.expenses.travel THEN "No Travel Expenses" ELSE e.expenses.travel end FROM Example e;</p>	<p>FUNCTIONS</p> <p>size(item) Returns the size of a complex item (array, map, record).</p> <p>OPERATORS</p> <p>Arithmetic +, -, *, /</p> <p>Comparison =, !=, >, >=, <, <=</p> <p>Logical AND, NOT, OR</p> <p>Sequence =any, !=any, >any, >=any, <=any</p> <p>exists Returns true if a sequence is not empty.</p> <p>MAP FILTERS</p> <p>.values(<expr>?) Selects map field values.</p> <p>.keys(<expr>?) Selects map field keys.</p> <p>\$key References key of the current field.</p> <p>\$value References value of the current field.</p> <p>\$ References the entire map.</p> <p>ARRAY FILTERS</p> <p>[<expr>?] Selects array elements.</p> <p>\$element References current elements.</p> <p>\$pos References position of current element.</p> <p>\$ References the entire array.</p> <p>ARRAY SLICING</p> <p>[<expr>? : <expr>?] Selects array elements between two positions.</p> <p>\$ References the entire array.</p> <p>CONSTRUCTORS</p> <p>[<expr>*] Array constructor</p> <p>{(<expr> : <expr>)*} Map constructor</p> <p>SEARCHED CASE</p> <p>CASE</p> <p>WHEN <expr> THEN <expr></p> <p>(WHEN <expr> THEN <expr>)*</p> <p>(ELSE <expr>)?</p> <p>END</p>