

## SQL for Oracle NoSQL Database Cheat Sheet

EXAMPLE		QUERIES
create table if not exists Example (	ARITHMETIC OPERATORS	SELECT id, income, income/12 A
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),	ARRAY CONSTRUCTOR	SELECT lastName, [\$e.address.pphoneNumbers FROM Example \$
	COMPARISON OPERATORS	SELECT lastname FROM Examp
	FIELDSTEP EXPRESSION	SELECT id, e.address.city FROM
	FILTERSTEP EXPRESSION	SELECT lastName FROM Examp
	FROM AS TABLE ALIAS	SELECT lastname FROM Examp
	FROM TABLE ALIAS	SELECT lastname FROM Examp
	FUNCTION CALL	SELECT id, size(\$e.address.phor
primary key(id)	INDEX HINT	create index idx1 on Example (ind
{ "id" : 1,		SELECT /*+ FORCE_INDEX(Exa and income < 200000;
"firstname" : "David", "lastname" "Morrison", "age" : 25,:	LOGICAL OPERATORS	SELECT lastname, age, income F
"income" : 100000, "address" : {"street":"150 Route 2",	ORDER BY ASC	SELECT id, lastname FROM Exa
"city" : "Antioch", "state" : "TN",	ORDER BY DESC	SELECT id, lastname FROM Exa
"phones":[{"type":"home", "areacode" : 423, "number" : 8634379}]	ORDER BY INDEX	create index idx2 on Example (las
"connections" : [2,3],     "properties" : {"height" : "5.5", "weight" : "180"},     "expenses" : {"books" : 500, "food" : 1000} }  {     "id" : 2,     "firstname" : "John",     "lastname" : "Anderson",     "age" : 35,     "income" : 100000,     "address" : {"street":"187 Hill Street",         "city" : "Beloit",         "state" : "WI",         "phones":{{"type":"home", "areacode" : 339,		SELECT id, lastname FROM Exa
	ORDER BY PRIMARY KEY	SELECT id, lastname FROM Exa
	PARENTHESIZED EXPRESSIO	N SELECT id, lastname FROM Exa and income >= 100000;
	SELECT *	SELECT * FROM Example;
	SELECT COLUMN(S)	SELECT firstname, lastname, age
	SELECT COLUMN(S) AS	SELECT lastname AS Surname F
	SEQUENCE OPERATORS	SELECT id, lastname, connection
	SLICESTEP EXPRESSIONS	SELECT [connections[0:1]] as str
	WHERE	SELECT id, lastname FROM Exa
	MAP FILTER STEPS	SELECT id, e.expenses.keys(\$va SELECT id, e.expenses.keys(\$va SELECT id from Example e WHE
	SEARCHED CASE	SELECT id, CASE WHEN NOT E ELSE e.expenses.travel end FRC

QUERIES			FUNCTIONS	
ARITHMETIC OPERATORS	SELECT id, income, income/12 AS monthlysalary FROM Example;	size(item) Returns the size of a complex Item (array, map, record).  OPERATORS		
ARRAY CONSTRUCTOR	SELECT lastName, [\$e.address.phones[\$element.areaCode = 423].number] AS phoneNumbers FROM Example \$e;			
COMPARISON OPERATORS	SELECT lastname FROM Example e WHERE e.address.state = "TN";	Arithmetic	- , , ,	
FIELDSTEP EXPRESSION	SELECT id, e.address.city FROM Example e WHERE e.address.state = "TN";	Logical	on =, !=, >, >=, <, <= AND, NOT, OR	
FILTERSTEP EXPRESSION	SELECT lastName FROM Example e WHERE e.address.phones[].areaCode =any 423;	Sequence	· · · · · ·	
		·	<=any	
FROM TABLE ALIAS	SELECT lastname FROM Example AS e;	exists True if a sequence is not empty.		
FROM TABLE ALIAS	SELECT lastname FROM Example e;	le mull	True if an item is SQL NULL.	
FUNCTION CALL	SELECT id, size(\$e.address.phones) AS registeredphones FROM Example \$e;	Is null		
INDEX HINT	create index idx1 on Example (income);	values/ce	MAP FILTERS expr>?) Selects map field	
	SELECT /*+ FORCE_INDEX(Example indx1) */* FROM Example where 90000 < income		values.	
	and income < 200000;	,	pr>?) Selects map field keys.	
LOGICAL OPERATORS	SELECT lastname, age, income FROM Example WHERE age > 30 or income >= 100000;	\$key \$value	Current field's key. Current field's value.	
ORDER BY ASC	SELECT id, lastname FROM Example ORDER BY id ASC;	\$	References the entire map.	
ORDER BY DESC	SELECT id, lastname FROM Example ORDER BY id DESC;		ARRAY FILTERS	
ODDED DV INDEV	and the Hoor French Antonia	[ <expr>?]</expr>	Selects array elements.	
ORDER BY INDEX	create index idx2 on Example (lastname);	\$element	References current elements.	
	SELECT id, lastname FROM Example ORDER BY lastname;	\$pos	References position of	
ORDER BY PRIMARY KEY	SELECT id, lastname FROM Example ORDER BY id;		current element.	
PARENTHESIZED EXPRESSION	N SELECT id, lastname FROM Example WHERE (age > 20 or age < 40) and income >= 100000;	\$	References the entire array.  ARRAY SLICING	
SELECT *	SELECT * FROM Example;	[ <expr>?</expr>	: <expr>?]</expr>	
SELECT COLUMN(S)	SELECT firstname, lastname, age FROM Example;		Selects array elements between two positions.	
SELECT COLUMN(S) AS	SELECT lastname AS Surname FROM Example;	\$	References the entire array.	
SEQUENCE OPERATORS	SELECT id, lastname, connections FROM Example WHERE connections[] =any 2;		CONSTRUCTORS	
SLICESTEP EXPRESSIONS	SELECT [connections[0:1]] as strongConnections FROM Example WHERE id = 1;		Array constructor	
WHERE	SELECT id, lastname FROM Example WHERE firstname = "John";	{( <expr> : <expr>)*} Map constructor</expr></expr>		
MAP FILTER STEPS	SELECT id, e.expenses.keys(\$value > 700) from Example e; SELECT id, e.expenses.keys(\$value > \$.books) from Example e; SELECT id from Example e WHERE e.expenses.values(\$key != "books") >any 900;	SEARCHED CASE  CASE WHEN <expr> THEN <expr> (WHEN <expr> THEN <expr>)* (ELSE <expr>)? END</expr></expr></expr></expr></expr>		
SEARCHED CASE	SELECT id, CASE WHEN NOT EXISTS e.expenses.travel THEN "No Travel Expenses" ELSE e.expenses.travel end FROM Example e;			