Administration & Operations

AQL

aql – Command Line Interface

AQL is the Aerospike command line tool for managing the database with SQL–**like** commands. Major functions include:

- Record Operations
- Querying Records
- Data Management
- Security Management (User/Roles – Enterprise only)
- Index Management
- Query Scan Management
- Settings / Statistics
- UDF Management

Common Usage:

`aql OPTIONS`

Option	Default	Description
-h	127.0.0.1	Seed host to connect to. AQL will learn about the other nodes in the cluster from this one.
-p	3000	Seed port.
-c	[none]	Command to run.
-f	[none]	Execute the commands in the specified file.
-o	table	One of "json" or "table". The output format of queries.
--help	[none]	Display usage information.

In most cases, you will enter the `aql` CLI and enter additional commands (unless running a script with the –f command). You will then see the aql prompt "aql> ".

aql - Write Test

Let us now conduct a simple write test on the database. The default configuration of Aerospike has a simple RAM based namespace called "test". Let's try to write a record into a set called "testset".

From the command line of the server, run the aql command.

```
$ aql

$ aql> INSERT INTO test.testset (PK, company, age) \
       VALUES('myname', 'mycompany', '35')
```

Literals in AQL such as 'test' are case sensitive.

Command words like 'INSERT' are not case sensitive.

aql - Read / Delete Tests

To read the data from the command line, you must be in the aql shell.

```
aql> SELECT * from test.testset where PK='myname'
```

This should give you back the values you wrote in the previous step.

For more information on a record, use the "explain" feature (3.6.1+).

```
aql> EXPLAIN SELECT * from test.testset where PK='myname'
```

Finally, you should be able to delete the record. From the aql command line, run the following:

```
aql> DELETE FROM test.testset WHERE PK='myname'
```

aql - basic examples

List all namespaces in the cluster

```
aql> show namespaces
+----------------+
| namespaces     |
+----------------+
| "test"         |
| "bar"          |
+----------------+
```

List all sets in the cluster

```
aql> show sets
+-----------+---------------+---------------------+---------+-----------+------------+--------------------+
| n_objects | set-enable-xdr | set-stop-write-count | ns_name | set_name  | set-delete | set-evict-hwm-count |
+-----------+---------------+---------------------+---------+-----------+------------+--------------------+
| 100000    | "use-default" | 0                    | "test"  | "testset" | "false"    | 0                   |
+-----------+---------------+---------------------+---------+-----------+------------+--------------------+
1 row in set (0.001 secs)
OK
```

List all bins in the namespace

```
aql> show bins
+-------+-----+-------+-----------+
| quota | bin | count | namespace |
+-------+-----+-------+-----------+
| 32768 | "0" | 1     | "test"    |
+-------+-----+-------+-----------+
1 row in set (0.000 secs)
OK
```