### Cheatography

### cassandra 2.0.X Cheat Sheet by connygy via cheatography.com/32168/cs/9964/

nodetool		
bin/nodetool status	0	status of nodes, + nomal
bin/nodetool info - h 127.0.0.1	detailed node 12	l infomation of the 27.0.0.1
bin/status ring	get the with the	ring information
system		
bin/cassandra		cassandra; with -f foreground
\$ ps aus   grep cass	get the ca	assandra pid
\$ kill pid	close the	cassandra service
conf/cassandra.y aml	configura	tion file
config/log4j- server.properties		log fille written, nax file size
cql - crud		
source 'filename.co	ql'	run a file with cql commands
insert into		
insert into values('xxx','xxx')	(xxx,xxx)	insert value to table
sstableloader tool		
select * from		
select xxx,xxx from		
copy from		import .csv file

#### copy to export .csv file copy copy csv file example, notice: (xxx,xxx) from if a record already there and 'file path' with duplicated with the primary header = true key with the file, thus the and delimiter record will be simply replaced = '|' bin/cassandra- start cli (thrift) cli cli command, use keyspace use <dbname> cli command, list how the list <tablename> table is stored cassandra-cli bin/cassandra-cli start cassandracli tool go into the use <keyspace>

#### keyspace list show the storage of the table bin/nodetool flush flush the home\_security memtable to disk bin/sstable2json see the /var/lib/cassandra sstable, data/home\_security/activity/hom notice: use e\_security\_activity-jb-1the Data.db

file

data modeling	data modeling		
no join	no join in cassandra, the query should just work in one talbe		
<pre>select * from  where <partition key=""> = 'xxx' and <primary key=""> = "xxx"</primary></partition></pre>	where need to include one partiiton key		
secondary index	a index beyond the partition key and clustering columns, for each secondary index, cassandra creates a hidden talbe on each node in the cluster, it doesn't improve the speed		
create a table for each query	this can improve the speed		
create index <index_nam e&gt; on (code_used)</index_nam 	create a secondary index		
composite partition key	a partition key with more than one column		
create table <tablename> (XXX XXX, , primary key((xxx, xxx), xxx))</tablename>	create a composite partition key		

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Data.db

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cql	
datastax.com/documentation/cql	cql documenta tion
bin/cqlsh	start cql comments
describe cluster	describe cluster
help <commend></commend>	help
exit	exit
describe keyspaces	list all the databases
describe keyspace <dbname></dbname>	details about the database
create keyspace <dbname> with replication = {'class':'NetworkTopologyStrategy', 'dc1':3, 'dc2':2}</dbname>	create a database across multiple data center
create keyspace <dbname> with replication = {'class'='SimpleStrategy', 'replication_factor'=1}</dbname>	create a database in one cluster
drop keyspace <tablename></tablename>	delete a database
create table <tablename> (home_id text, datetime timestamp, event text, code_used text primary key (home_id, datetime)) with clustering order by (datetime DESC)</tablename>	create a table
drop table <tablename></tablename>	delete table
use <dbname></dbname>	use a keyspace

ascii, bigint, blob, boolean,	cql data types
counter, decimal, double, float, inet, int, list, map, set, text, timestamp, uuid, timeuuid, varchar, varint	
	a way to uniquely identify a record in a table
	first primary key, to determine which node store the record. (old name: row key) Partitioner hash the partition key
<tablename> () with clustering order by (datetime desc)</tablename>	define the order of table, it default is ascend, if descend, than it takes longer to write, since the record is inserted at the start of a partition, but improves read performance. The order can not be changed by the command "alter "

### applications

applications		
planetcassandra.org/clie nt-drivers-tool	cassandra drivers	
Cluster cluster = Cluster.builder().addCon tactPoints("127.0.0.1", "127.0.0.2").build();	build a cluster with java driver, it is better more than one contact point exist	
update data		
update  set xxx='x xxx='xxx' where xxx='xxx'		
update location using ttl 1 set XXX=XXX, XXX=XXX where XXX=XXX and XX XXX	time to live	
delete	delete a value in a column, or a row or rows	
delete column from <table td="" where<=""><td>e&gt; delete the column value where</td></table>	e> delete the column value where	
delete from  where	e delete a row where	
truncate	delete all of the rows in a talbe	
drop	delete a table or keyspaces	
drop table		

drop keyspace <keyspace>

# С

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tombstone	
gc_grace_seconds	the minimum existence of the deleted record, it is 864000(10 days) by default
compaction	data deleted, then reclaim the disk space from deleted data
bin/nodetool compact	manually do the compaction, but it is usually automatically
TTL	Time To Live, a way to specify an expiration date for data that is being inserted
insert into location(xxx, xxx) values ('xxx', 'xxx') using ttl 30	inserted data will live 30 seconds
sstable2json <sstable></sstable>	in the records, "d": deletion (after TTL), "e": expire (before TTL)



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