# <u>Cassandra Exercise - 2</u>

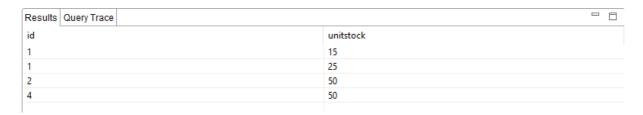
## **Table Creation:**

```
CREATE TABLE IF NOT EXISTS product(
   id int,
   unitstock bigint,
   PRIMARY KEY(id, unitstock)
);
```

#### **Insertion of data:**

```
insert into product(id,unitstock) values (2,50); insert into product(id,unitstock) values (1,15); insert into product(id,unitstock) values (1,25); insert into product(id,unitstock) values (4,50);
```

#### **Output:**



#### **Aggregate function:**

select avg(unitstock) from product WHERE id=1;

#### **Output:**



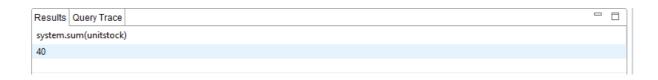
# SELECT count(id) FROM product WHERE id=1;

#### **Output:**



SELECT sum(unitstock) FROM product WHERE id=1;

## **Output:**



SELECT min(unitstock) FROM product WHERE id=1;

#### Output:



SELECT max(unitstock) FROM product WHERE id=1;

#### **Output:**



## Aggregate user defined function:

#### **Output:**

Results Query Trace assign4.min\_cr(unitstock)

```
CREATE TABLE student(
    id int,
    mark int,
    PRIMARY KEY (id)
)
WITH compression = { 'enabled' : false };
```

```
C:\Program Files\DataStax-DDC\apache-cassandra\bin>nodetool tablestats assign4.student
Keyspace : assign4
        Read Count: 0
        Read Latency: NaN ms.
        Write Count: 6
        Write Latency: 0.7166666666666667 ms. Pending Flushes: 0
                  Table: student
                 SSTable count: 0
                 Space used (live): 0
Space used (total): 0
                 Space used by snapshots (total): 0
                 Off heap memory used (total): 0
                 SSTable Compression Ratio: 0.0
                 Number of keys (estimate): 5
Memtable cell count: 6
                 Memtable data size: 294
                 Memtable off heap memory used: 0
                 Memtable switch count: 0
                 Local read count: 0
Local read latency: NaN ms
                 Local write count: 6
                  Local write latency: 0.826 ms
                 Pending flushes: 0
                 Percent repaired: 100.0
Bloom filter false positives: 0
                  Bloom filter false ratio: 0.00000
                  Bloom filter space used: 0
                  Bloom filter off heap memory used: 0
                  Index summary off heap memory used: 0
                  Compression metadata off heap memory used: 0
                 Compacted partition minimum bytes: 0
                  Compacted partition maximum bytes: 0
                 Compacted partition mean bytes: 0
                 Average live cells per slice (last five minutes): NaN Maximum live cells per slice (last five minutes): 0
                  Average tombstones per slice (last five minutes): NaN
                 Maximum tombstones per slice (last five minutes): 0
                 Dropped Mutations: 0
```

# ALTER TABLE student WITH compression = { 'class' : 'LZ4Compressor' };

```
C:\Program Files\DataStax-DDC\apache-cassandra\bin>nodetool tablestats assign4.student
Keyspace : assign4
          Read Count: 0
          Read Latency: NaN ms.
          Write Count: 6
         Write Latency: 0.71666666666666666667 ms. Pending Flushes: 0
                     Table: student
                     SSTable count: 1
                    Space used (live): 5032
Space used (total): 5032
Space used by snapshots (total): 0
                     Off heap memory used (total): 40
                     SSTable Compression Ratio: 0.5846994535519126
                    Number of keys (estimate): 6
Memtable cell count: 0
                     Memtable data size: 0
                    Memtable off heap memory used: 0 Memtable switch count: 1
                    Local read count: 0
Local read latency: NaN ms
                     Local write count: 6
                     Local write latency: 0.826 ms
                     Pending flushes: 0
                     Percent repaired: 0.0
                     Bloom filter false positives: 0
Bloom filter false ratio: 0.00000
                     Bloom filter space used: 24
                     Bloom filter off heap memory used: 16
                     Index summary off heap memory used: 16
                     Compression metadata off heap memory used: 8
                     Compacted partition minimum bytes: 25
                     Compacted partition maximum bytes: 35
                     Compacted partition mean bytes: 34
                    Average live cells per slice (last five minutes): NaN Maximum live cells per slice (last five minutes): 0
Average tombstones per slice (last five minutes): NaN Maximum tombstones per slice (last five minutes): 0
                     Dropped Mutations: 0
```

#### **ALTER TABLE student**

WITH compression = { 'class' : 'DeflateCompressor', 'chunk length in kb' : 64 };

```
:\Program Files\DataStax-DDC\apache-cassandra\bin>nodetool tablestats assign4.student
Keyspace : assign4
            Read Count: 0
            Read Latency: NaN ms.
            Write Count: 6
            Write Latency: 0.716666666666666 ms.
            Pending Flushes: 0
                           Table: student
                          SSTable count: 1
                          Space used (live): 5032
Space used (total): 5032
                           Space used by snapshots (total): 0
                          Off heap memory used (total): 40
SSTable Compression Ratio: 0.5846994535519126
                          Number of keys (estimate): 6
Memtable cell count: 0
                          Memtable data size: 0 Memtable off heap memory used: 0 Memtable switch count: 2
                          Local read count: 0
Local read latency: NaN ms
                          Local write count: 6
Local write latency: 0.826 ms
                           Pending flushes: 0
                          Percent repaired: 0.0
Bloom filter false positives: 0
                          Bloom filter false ratio: 0.00000
Bloom filter space used: 24
                          Bloom filter space used: 24
Bloom filter off heap memory used: 16
Index summary off heap memory used: 16
Compression metadata off heap memory used: 8
                           Compacted partition minimum bytes: 25
                          Compacted partition maximum bytes: 35
                          Compacted partition maximum bytes: 35

Compacted partition mean bytes: 34

Average live cells per slice (last five minutes): NaN

Maximum live cells per slice (last five minutes): 0

Average tombstones per slice (last five minutes): NaN

Maximum tombstones per slice (last five minutes): 0
                           Dropped Mutations: 0
```