```
aggregate $agg := global-avg($lagg)
                         n:1 replicating
aggregate $lagg := local-avg($1)
                          1:1
assign $1 := string-length($m.message)
                          1:1
select $t >= 2014-01-01T00:00:00 and
       $t < 2014-04-01T00:00:00
                          1:1
assign $t := $m.timestamp
                          1:1
btree $m := search(MugshotMessages, $id, $id)
                          1:1
sort $id
                          1:1
btree $id := search(msTimestampIdx, $lo, $hi)
                          1:1
assign $hi := 2014-04-01T00:00:00
assign $10 := 2014-01-01T00:00:00
```