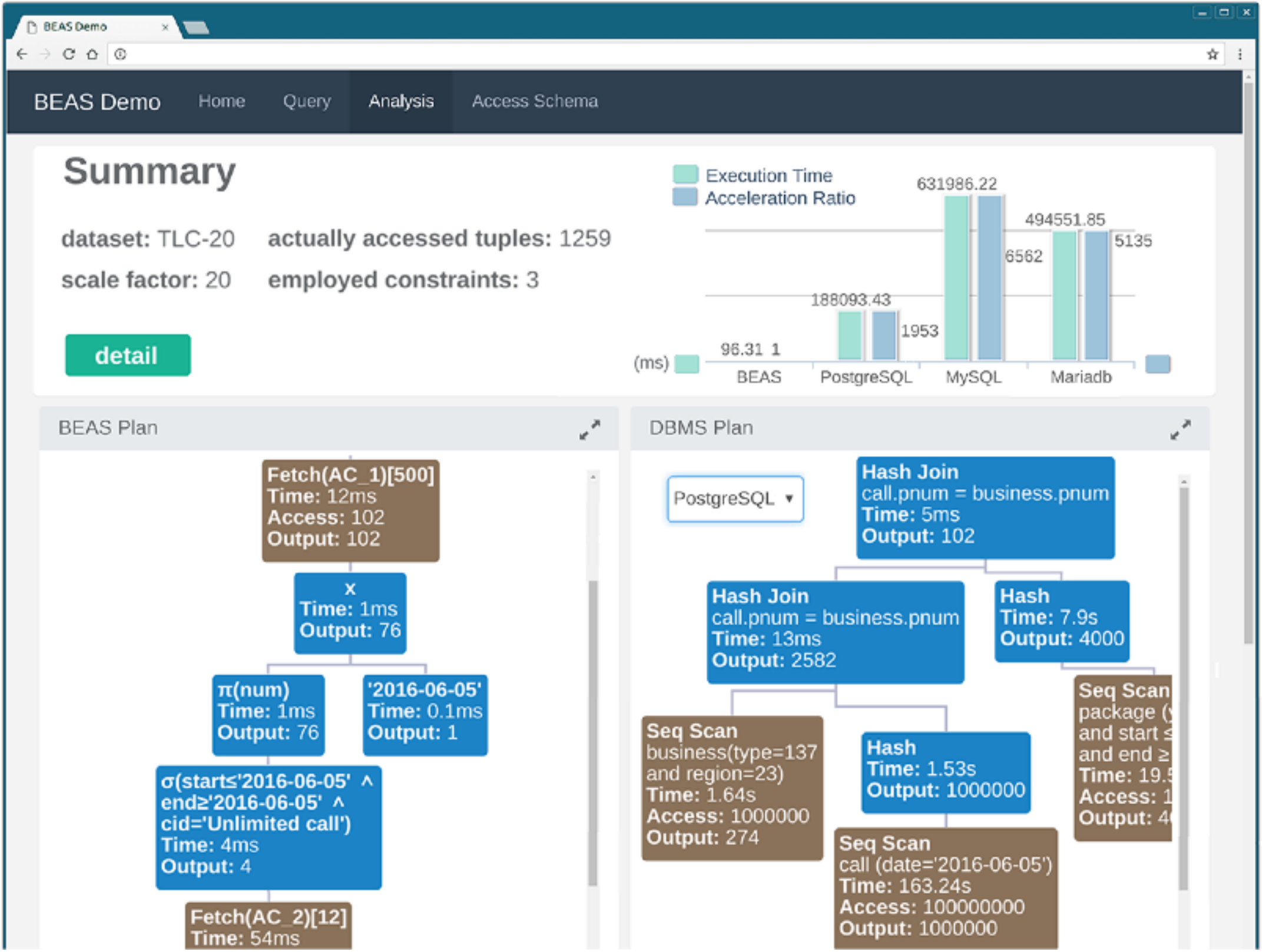
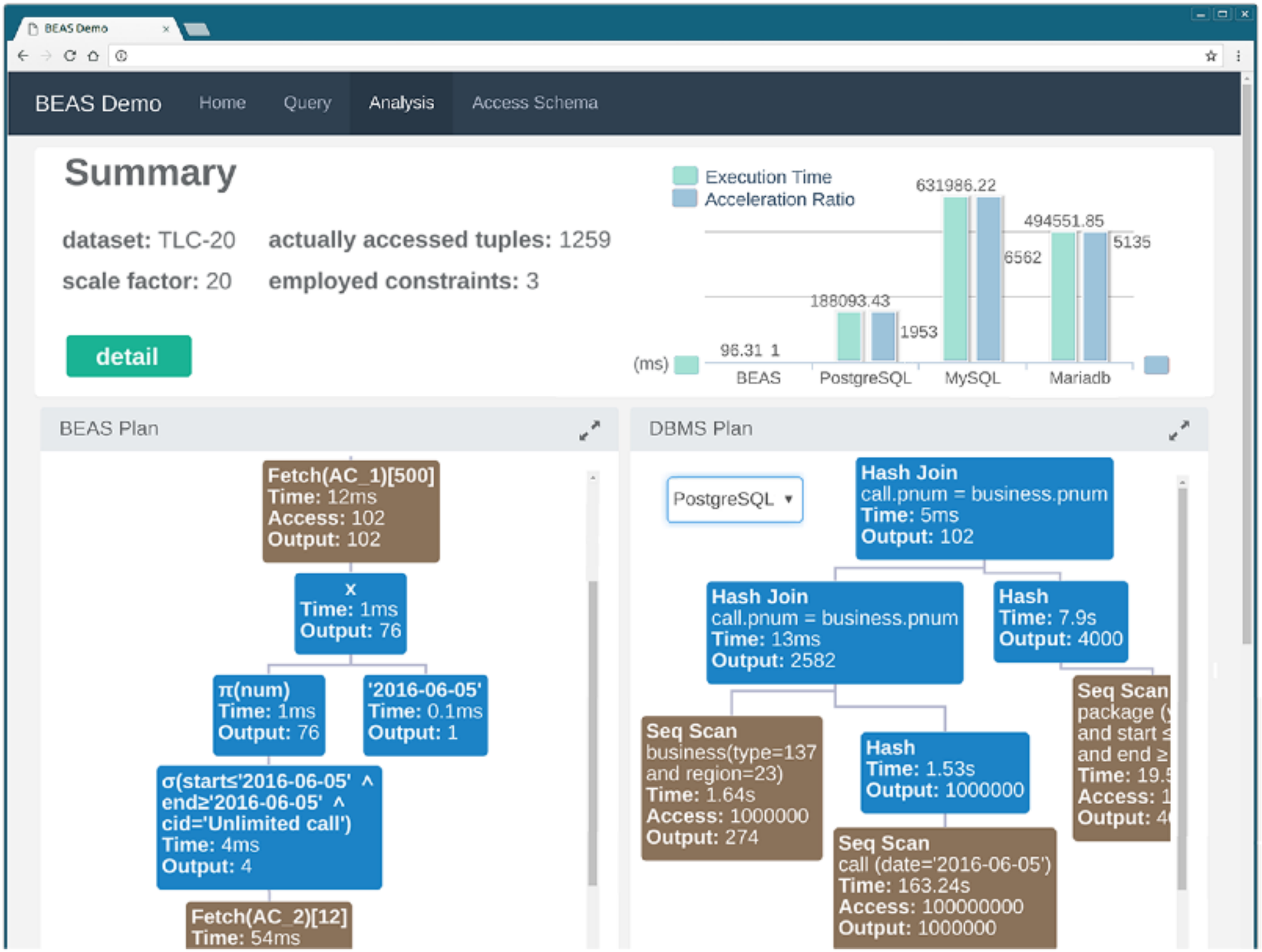
20

[7] Y. Cao, W. Fan, Y. Wang, T. Yuan, Y. Chen: BEAS: Bounded Evaluation of SQL Queries, SIGMOD 2017 (demo)


BEAS Demo
BEAS Demo
Home
Query
Analysis
Access Schema
Summary
dataset: TLC-20
actually accessed tuples: 1259
scale factor: 20
employed constraints: 3
detail
Execution Time
Acceleration Ratio
631986.22
494551.85
6562
5135
188093.43
1953
96.31
1
(ms)
BEAS
PostgreSQL
MySQL
Mariadb
BEAS Plan
Fetch(AC_1)[500]
Time: 12ms
Access: 102
Output: 102
x
Time: 1ms
Output: 76
π(num)
Time: 1ms
Output: 76
'2016-06-05'
Time: 0.1ms
Output: 1
σ(start≤'2016-06-05' ∧
end≥'2016-06-05' ∧
cid='Unlimited call')
Time: 4ms
Output: 4
Fetch(AC_2)[12]
Time: 54ms
DBMS Plan
PostgreSQL
Hash Join
call.pnum = business.pnum
Time: 5ms
Output: 102
Hash Join
call.pnum = business.pnum
Time: 13ms
Output: 2582
Hash
Time: 7.9s
Output: 4000
Seq Scan
business(type=137
and region=23)
Time: 1.64s
Access: 1000000
Output: 274
Hash
Time: 1.53s
Output: 1000000
Seq Scan
call (date='2016-06-05')
Time: 163.24s
Access: 100000000
Output: 1000000



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On Key-value Stores

— A first step for bounded evaluation on KV-stores

— A “surprise” for the SQL@KV-store paradigm