

Query

Trouble 4. Query Indexing

Node.js A6 Team

문제상황

입찰 데이터 조건 검색 조건인 bidSize에 인덱스 적용했으나 성능 개선이 발생하지 않았음
(조건 신발 사이즈(bidSize=280)와
비딩 생성 날짜(order by createdAt))

가설 및 정의

신발 사이즈(bidSize) 데이터의 범위는 250 - 300 사이
수준으로, 중복도가 높아 인덱스의 효과가 미미한 것이 문제

```
tablename|indexname
-----+-----+
Bid      |PK_88960f301c458b51987cd93dbb9|
Bid      |idx_raffleid                    |

explain analyze select * from "Bid" b where "bidSize" = 280 order by "createdAt" desc limit 2000;

QUERY PLAN
-----
Limit  (cost=103448.50..103681.85 rows=2000 width=48) (actual time=324.262..327.186 rows=2000 loops=1)
  -> Gather Merge  (cost=103448.50..157240.95 rows=461046 width=48) (actual time=324.260..327.071 rows=2000 loops=1)
    Workers Planned: 2
    Workers Launched: 2
    -> Sort  (cost=102448.47..103024.78 rows=230523 width=48) (actual time=317.568..317.635 rows=1223 loops=3)
      Sort Key: "createdAt" DESC
      Sort Method: top-N heapsort  Memory: 409kB
      Worker 0:  Sort Method: top-N heapsort  Memory: 409kB
      Worker 1:  Sort Method: top-N heapsort  Memory: 409kB
      -> Parallel Seq Scan on "Bid" b  (cost=0.00..88656.53 rows=230523 width=48) (actual time=0.008..248.258 rows=184556 loops=3)
        Filter: ("bidSize" = 280)
        Rows Removed by Filter: 1843510

Planning Time: 0.077 ms
Execution Time: 327.278 ms
```

