

CTE - common table expression → with clause in MySQL

→ clear to understand

→ easier to think and create complex queries

Example:
see textbook

①

with max ~

② with dept_total (dept_name, value) as
(
...
)

dept_total_avg (value) as (...)

select dept_name
from dept_total, dept_total_avg where dept_total.value
>= dept_total_avg

Scalar subqueries \rightarrow count(*), max, etc.

dev. mysql.com

Views \rightarrow limited access

Materialised views X

No support in MySQL

Transactions

- transfer 100 rupees from A to B
 - deduct 100 from A
update
add 100 to A
- system crash
- } \rightarrow not true transaction

• each transaction should be atomic. ^{→ indivisible}
⊕
•
→ Partial transactions would be a big problem.

→ For simple application, database application itself has a log for rollback