



# MySQL - RDBMS

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# Sub queries

- Sub-query is query within query. Typically it work with SELECT statements.
- Output of inner query is used as input to outer query.
- If no optimization is enabled, for each row of outer query result, sub-query is executed once. This reduce performance of sub-query.
- Single row sub-query
  - Sub-query returns single row.
  - Usually it is compared in outer query using relational operators.

↙ where ✓  
↘ having ✓



# Sub queries

- Multi-row sub-query
  - Sub-query returns multiple rows.
  - Usually it is compared in outer query using operators like IN, ANY or ALL.
    - IN operator checks for equality with results from sub-queries. → any of value.
    - ANY operator compares with one of the result from sub-queries. → like OR
    - ALL operator compares with all the results from sub-queries. → like AND





Thank you!

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