



# MySQL - RDBMS

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# SELECT – DQL

- Select all columns (in fixed order).
  - SELECT \* FROM table;
- Select specific columns / in arbitrary order.
  - SELECT c1, c2, c3 FROM table;
- Column alias
  - SELECT c1 AS col1, c2 col2 FROM table;
- Computed columns.
  - SELECT c1, c2, c3, <sup>da</sup>expr1, <sup>ta</sup>expr2 FROM table;  
SELECT c1,  
CASE WHEN condition1 THEN value1,  
WHEN condition2 THEN value2,  
...  
ELSE valuen  
END  
FROM table;



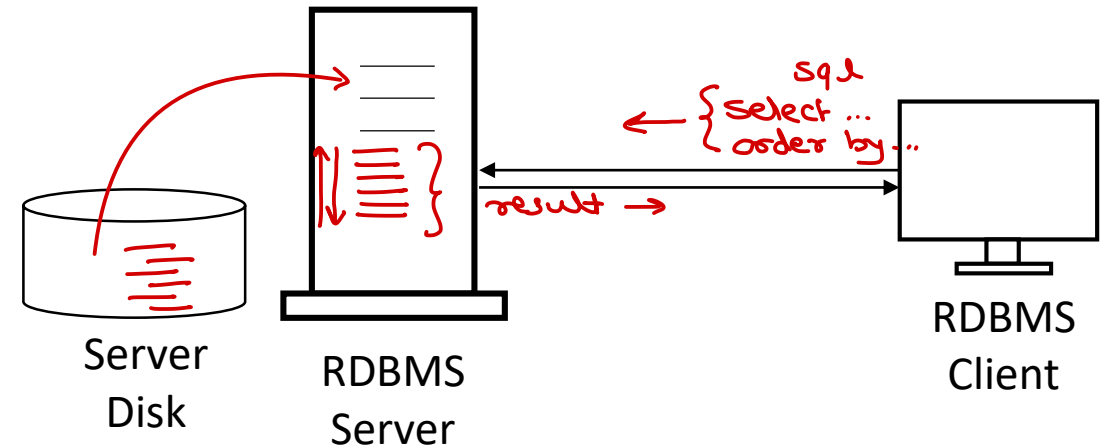
# SELECT – DQL

- Distinct values in column.
  - SELECT DISTINCT c1 FROM table;
  - SELECT DISTINCT c1, c2 FROM table;
- Select limited rows.
  - SELECT \* FROM table LIMIT n; ← fetch first n rows
  - SELECT \* FROM table LIMIT m, n; → skip m rows & fetch next n rows.



# SELECT – DQL – ORDER BY

- In db rows are scattered on disk. Hence may not be fetched in a fixed order.
- Select rows in asc order.
  - SELECT \* FROM table ORDER BY c1; ← asc
  - SELECT \* FROM table ORDER BY c2 ASC;
- Select rows in desc order.
  - SELECT \* FROM table ORDER BY c3 DESC;
- Select rows sorted on multiple columns.
  - SELECT \* FROM table ORDER BY c1, c2;
  - SELECT \* FROM table ORDER BY c1 ASC, c2 DESC;
  - SELECT \* FROM table ORDER BY c1 DESC, c2 DESC;
- Select top or bottom n rows.
  - SELECT \* FROM table ORDER BY c1 ASC LIMIT n;
  - SELECT \* FROM table ORDER BY c1 DESC LIMIT n;
  - SELECT \* FROM table ORDER BY c1 ASC LIMIT m, n;



# SELECT – DQL – WHERE

to reduce server resource.  
&

- It is always good idea to fetch only required rows (to reduce network traffic).
- The WHERE clause is used to specify the condition, which records to be fetched.
- Relational operators = (not ==)
  - <, >, <=, >=, =, != or <>
- NULL related operators
  - NULL is special value and cannot be compared using relational operators.
  - IS NULL or <=>, IS NOT NULL.
- Logical operators
  - AND, OR, NOT

select ..... from table name  
where condition ;



# SELECT – DQL – WHERE

- BETWEEN operator (include both ends)
  - c1 BETWEEN val1 AND val2
- IN operator (equality check with multiple values)
  - c1 IN (val1, val2, val3)
- LIKE operator (similar strings)
  - c1 LIKE 'pattern'.
  - % represent any number of any characters.
  - \_ represent any single character.





Thank you!

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