

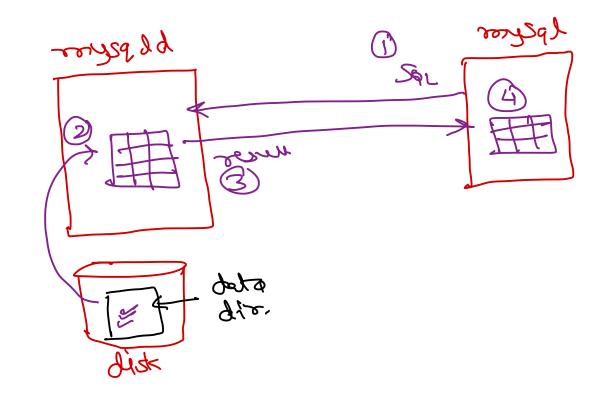
MySQL RDBMS

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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, expr1, expr2 FROM table;
 - SELECT c1,
 - CASE WHEN condition 1 THEN value 1,
 - CASE WHEN condition2 THEN value2,
 - ...
 - ELSE valuen
 - END
 - FROM table;





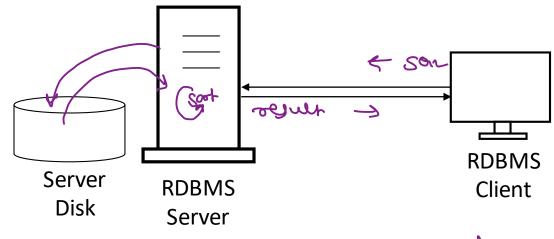
SELECT - DQL

- Distinct values in column.
 - SELECT DISTINCT c1 FROM table;
 - SELECT DISTINCT c1, c2 FROM table;
- Select limited rows.
 - SELECT * FROM table LIMIT n;
 - SELECT * FROM table LIMIT m, n;



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;
 - 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;



sorting too reary recade andiple alumns takes more time.



SELECT - DQL - WHERE

- 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
 - <, >, <=, >=, =, != 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 - 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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