

The SELECT Statement

Querying data is the most frequently performed operation in SQL databases.

In SQL, using the **SELECT** statement, you can retrieve data from some or all the fields (columns) of a table.

It uses the combinations of different clauses to retrieve data from a table.

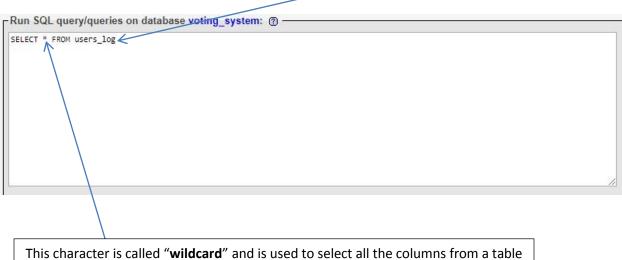
The following are some of the main clauses.

- The **FROM** clause.
- The WHERE clause.
- The **ORDER BY** clause.
- The GROUP BY clause.

The **FROM** clause

The **FROM** clause is used to specify a table-name in a **SELECT** statement. This clause is required while retrieving data from the table.

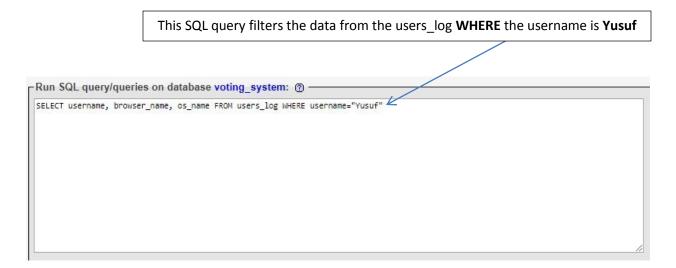
This SQL query retrieves all the columns and records in the users_log table



The WHERE clause

In day-to-day business transactions, the data that is typically required is filtered based on certain conditions.

For example, in your workplace your boss asked you; he wants you to display the **browser_name** and the **os_name** in the **users_log** table where the username is **Yusuf**; the best way to achieve this task is by filtering the data in the **users_log** table base on certain conditions.



The **ORDER BY** clause

The **ORDER BY** clause is used along with the **SELECT** statement to allow sorting of records in ascending or descending order using the **ASC** or **DESC** keywords.

NB: if the **ASC** or **DESC** value is not specified with the **ORDER BY** clause, then the system sorts the records in the default order, that is ascending order **ASC.**

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Run SQL query/queries on database voting_system: ③

SELECT * FROM users_log WHERE username="Yusuf" ORDER BY id DESC
```

The **GROUP BY** clause

The **GROUP BY** clause is used in a SELECT statement to group records from a table on the basis of one or more columns.

The **GROUP BY** is mostly combined with aggregate functions to generate summary values.

We will be learning more on aggregate functions later in the course of this tutorial series.