


Database Querying

JULY 1, 2021

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What is a Query?

- A **query** is a request for data or information from a **database** table or combination of tables.
- What is an example of a simple query?
 - `SELECT column1, column2 FROM table_name;`

Demo

Before we can query a database, we have to select a database and a table within the database.

1. We can see the list of databases with: `SHOW DATABASES;`
2. We can choose a database with: `USE database_name;`
3. We can see the list of tables in the database with: `SHOW TABLES;`

Now let's select some data!

SELECT modifiers

SQL Command	Description
LIMIT	Limits the number of records returned
ORDER BY column_name ASC	Return the records in ascending order of the given column_name
ORDER BY column_name DESC	Return the records in descending order of the given column_name
WHERE column OPERATOR data	Returns records that satisfy the given condition

OPERATOR	DESCRIPTION
=	Equal
<>	Not equal. Note: In some versions of SQL this operator may be written as !=
>	Greater than
<	Less than
>=	Greater than or equal
<=	Less than or equal
BETWEEN	Between an inclusive range
LIKE	Search for a pattern
AND	Displays a record if both the first condition AND the second condition are true
OR	Displays a record if either the first condition OR the second condition is true

Operators

Today's Activity

- You will work with an interactive SQL shell to practice all of the commands we covered today.
- You will go into your TA's breakout room and work on the activity.
- Feel free to work with others in your room and ask questions of the group.
- The TA is there to assist you. If you want to ask me a question, come back to the main zoom room.



Questions?