

Week 8 Research

1. Besides the creation and dropping of tables and columns (Data Definition Requests or DDL), what other types of requests can you make to a MySQL database? How is data retrieved from a MySQL database? What clauses exist for restricting the data that is returned to the user? Please include the syntax for this type of request, and examples.

Another type of request in MySQL is the select statement. This statement can be used to retrun specific columns within a table or set of tables. You can also narrow down the returned results using a where statement and then specify the value within a column that must be met in order to return the other values from that row.

```
Select * from tableName where like date = '*2023';
```

This statement will pull all columns form the tableName table with rows that has the date column value ending in 2023. This is useful to retrieve data that is relevant within the year.

2. Research different constructs that are available in MySQL when retrieving data. What types of constructs can be put into the WHERE clause? Please include the syntax for this type of request, and examples.

There are several things that can be put after the where clause in order to specify what infomration you want to be retruned formt he select statement. One example is like the one I mentioned erlier that lets you use wild card to specify a value that begins with, ends with or contains a certain value based on where that wildcard is placed. Another thing that can be used after the where clause is conditions. These conditions are AND, OR and NOT. These clauses lets you specify that a row must match two different values within a column using AND. While the OR clause return a value as long as one of the columns matches one of the specified values. Lastly would be the NOT which will return all data that doesn't contain the specified value within a column.

```
SELECT * FROM anyTable WHERE info = 'important' OR info = 'classified';
```

This statement will return any row with the important or classified value in the info column.

Sources:

https://www.w3schools.com/sql/sql_wildcards.asp#:~:text=A%20wildcard%20character%20is%20used,specified%20pattern%20in%20a%20column.

<https://learnsql.com/blog/where-clause-in-sql/>