

Week 8 Research

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.

- Besides creating and dropping tables, we have insert, update, delete commands. They do what they mean, insert data into a table, update an existing data within a table, and delete records from a database table. Data is retrieved from MySQL database with SQL SELECT statements. We can use WHERE to restrict data and only grab the ones where you specifically named it as.

```
SELECT * FROM Players
```

```
WHERE City = 'Fayetteville';
```

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.

- From the ones I talked about above SELECT and WHERE are some constructs to retrieve data. Another one is EXCEPT where you can exclude a data. WHERE you can have data such as locations: Country, State, City, etc.

```
SELECT * FROM Players
```

```
WHERE State = 'California';
```

```
TABLE a EXCEPT TABLE b;
```

List 3-5 interesting facts that you have learned about MySQL from your research?

1. First version of MySQL appeared on May 23, 1995
2. Maximum size of a row in a MySQL table is 65,535 bytes
3. MySQL supports up to 64 indexes per table

What is your favorite thing you learned this week?

- Mostly everything was interesting this week. It was interesting learning how to make tables using MySQL statements. I had a bit of fun with drawing out the diagram of my table using draw.io.

Citing

“MySQL Schema, DDL and DML: Mysql Tutorial.” *MySQL Schema, DDL and DML | MySQL Tutorial*, [https://hasura.io/learn/database/mysql/core-concepts/3-schema-ddl-dml/#:~:text=DDL%20\(Data%20Definition%20Language\)%3A&text=It%20consists%20of%20metadata%20of,%2C%20store%20procedure%20and%20triggers](https://hasura.io/learn/database/mysql/core-concepts/3-schema-ddl-dml/#:~:text=DDL%20(Data%20Definition%20Language)%3A&text=It%20consists%20of%20metadata%20of,%2C%20store%20procedure%20and%20triggers)). Accessed 29 Oct. 2022.

“Getting Data from MySQL Database.” *Tutorials Point*, https://www.tutorialspoint.com/php/mysql_select_php.htm#:~:text=Data%20can%20be%20fetched%20from,a%20numeric%20array%2C%20or%20both. Accessed 29 Oct. 2022.

MySQL Where Clause, https://www.w3schools.com/mysql/mysql_where.asp. Accessed 29 Oct. 2022.

“MySQL 8.0 Reference Manual :: 13.2.10 Select Statement.” *MySQL*, <https://dev.mysql.com/doc/refman/8.0/en/select.html>. Accessed 29 Oct. 2022.