

Query Results

In this section, we will learn how to control the results output of any query.

Sorting Results

We can sort the results of any query using **ORDER BY** and specifying the column to sort by:

```
mysql> SELECT * FROM logins ORDER BY password;
```

id	username	password	date_of_joining
2	administrator	admin_p@ss	2020-07-02 11:30:50
3	john	john123!	2020-07-02 11:47:16
1	admin	p@ssw0rd	2020-07-02 00:00:00
4	tom	tom123!	2020-07-02 11:47:16

4 rows in set (0.00 sec)

By default, the sort is done in ascending order, but we can also sort the results by **ASC** or **DESC**:

```
mysql> SELECT * FROM logins ORDER BY password DESC;
```

id	username	password	date_of_joining
4	tom	tom123!	2020-07-02 11:47:16
1	admin	p@ssw0rd	2020-07-02 00:00:00
3	john	john123!	2020-07-02 11:47:16
2	administrator	admin_p@ss	2020-07-02 11:30:50

4 rows in set (0.00 sec)

It is also possible to sort by multiple columns, to have a secondary sort for duplicate values in one column:

```
mysql> SELECT * FROM logins ORDER BY password DESC, id ASC;
```

id	username	password	date_of_joining
1	admin	p@ssw0rd	2020-07-02 00:00:00
2	administrator	change_password	2020-07-02 11:30:50
3	john	change_password	2020-07-02 11:47:16
4	tom	change_password	2020-07-02 11:50:20

4 rows in set (0.00 sec)

LIMIT results

In case our query returns a large number of records, we can **LIMIT** the results to what we want only, using **LIMIT** and the number of records we want:

```
mysql> SELECT * FROM logins LIMIT 2;
```

id	username	password	date_of_joining
1	admin	p@ssw0rd	2020-07-02 00:00:00
2	administrator	admin_p@ss	2020-07-02 11:30:50

2 rows in set (0.00 sec)

If we wanted to **LIMIT** results with an offset, we could specify the offset before the **LIMIT** count:

```
mysql> SELECT * FROM logins LIMIT 1, 2;
```

id	username	password	date_of_joining
2	administrator	admin_p@ss	2020-07-02 11:30:50
3	john	john123!	2020-07-02 11:47:16

2 rows in set (0.00 sec)

Note: the offset marks the order of the first record to be included, starting from 0. For the above, it starts and includes the 2nd record, and returns two values.

WHERE Clause

To filter or search for specific data, we can use conditions with the **SELECT** statement using the **WHERE** clause, to fine-tune the results:

[Cheat Sheet](#)[Go to Questions](#)

Table of Contents

Introduction	✓
Databases	
Intro to Databases	✓
Types of Databases	✓
MySQL	
Intro to MySQL	✓
SQL Statements	✓
Query Results	✓
SQL Operators	✓
SQL Injections	
Intro to SQL Injections	✓
Subverting Query Logic	✓
Using Comments	✓
Union Clause	✓
Union Injection	✓
Exploitation	
Database Enumeration	✓
Reading Files	✓
Writing Files	✓
Mitigations	
Mitigating SQL Injection	✓
Closing it Out	
Skills Assessment - SQL Injection Fundamentals	✓

My Workstation

OFFLINE

[Start Instance](#)

00 / 1 spawns left

Code: **sql**

```
SELECT * FROM table_name WHERE <condition>;
```

The query above will return all records which satisfy the given condition. Let us look at an example:

Query Results			
mysql> SELECT * FROM logins WHERE id > 1;			
id	username	password	date_of_joining
2	administrator	admin_p@ss	2020-07-02 11:30:50
3	john	john123!	2020-07-02 11:47:16
4	tom	tom123!	2020-07-02 11:47:16
3 rows in set (0.00 sec)			

The example above selects all records where the value of **id** is greater than **1**. As we can see, the first row with its **id** as **1** was skipped from the output. We can do something similar for usernames:

Query Results			
mysql> SELECT * FROM logins where username = 'admin';			
id	username	password	date_of_joining
1	admin	p@ssw0rd	2020-07-02 00:00:00
1 row in set (0.00 sec)			

The query above selects the record where the username is **admin**. We can use the **UPDATE** statement to update certain records that meet a specific condition.

Note: String and date data types should be surrounded by single quote (') or double quotes ("), while numbers can be used directly.

LIKE Clause

Another useful SQL clause is **LIKE**, enabling selecting records by matching a certain pattern. The query below retrieves all records with usernames starting with **admin**:

Query Results			
mysql> SELECT * FROM logins WHERE username LIKE 'admin%';			
id	username	password	date_of_joining
1	admin	p@ssw0rd	2020-07-02 00:00:00
4	administrator	admin_p@ss	2020-07-02 15:19:02
2 rows in set (0.00 sec)			

The **%** symbol acts as a wildcard and matches all characters after **admin**. It is used to match zero or more characters. Similarly, the **_** symbol is used to match exactly one character. The below query matches all usernames with exactly three characters in them, which in this case was **tom**:

Query Results			
mysql> SELECT * FROM logins WHERE username like '___';			
id	username	password	date_of_joining
3	tom	tom123!	2020-07-02 15:18:56
1 row in set (0.01 sec)			



Connect to Pwnbox

Your own web-based Parrot Linux Instance to play our labs.

Pwnbox Location

UK

TERMINATE

Terminate Pwnbox to switch location

Start Instance

∞ / 1 spawns left

Waiting to start...

☐ Enable step-by-step solutions for all questions

Questions



Cheat Sheet

Answer the question(s) below to complete this Section and earn cubes!

Target(s): [Click here to spawn the target system!](#)

Authenticate to with user "root" and password "password"

+1 What is the last name of the employee whose first name starts with "Bar" AND who was hired on 1990-01-01?

Mitchem

Submit

Hint

← Previous

Next →

Mark Complete & Next

