

# MySQL total number of locks exceeded

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## The Problem

Occasionally on a very busy server, you may not be able to log in to Open-Audit and will see an error as below.

A Database Error Occurred

Error Number: 1206

The total number of locks exceeds the lock table size

```
/* logon::check_defaults */ DELETE FROM `logs` WHERE (`severity` = 0 AND `timestamp` < (NOW() - INTERVAL 180 DAY)) OR (`severity` = 1 AND `timestamp` < (NOW() - INTERVAL 180 DAY)) OR (`severity` = 2 AND `timestamp` < (NOW() - INTERVAL 180 DAY)) OR (`severity` = 3 AND `timestamp` < (NOW() - INTERVAL 180 DAY)) OR (`severity` = 4 AND `timestamp` < (NOW() - INTERVAL 180 DAY)) OR (`severity` = 5 AND `timestamp` < (NOW() - INTERVAL 90 DAY)) OR (`severity` = 6 AND `timestamp` < (NOW() - INTERVAL 30 DAY)) OR (`severity` = 7 AND `timestamp` < (NOW() - INTERVAL 7 DAY))
```

Filename: controllers/logon.php

Line Number: 351

## Why?

Open-Audit logs to a table in the database named (surprisingly) "logs". The issue is that we're running a query upon the logs table that affects too many rows at once.

The specific MySQL error code (1206) is listed [here](#). MySQL has a configurable option for this called [innodb\\_buffer\\_pool\\_size](#). This can be set in my.cnf (details below).

## The Resolution

To resolve the issue you can:

- manually delete log entries while limiting the query and/or
- adjust the option and restart MySQL
- set the Open-Audit config options for log purging

To manually delete the affected rows, run the below SQL.

### Manually Delete Log Entries

NOTE - this command may need to be run several times.

NOTE #2 - If the command fails, try decreasing the LIMIT of 1000 to something smaller.

#### Windows

```
c:\xampplite\mysql\bin\mysql.exe -u openaudit -popenauditpassword -e "USE openaudit; DELETE FROM `logs` WHERE `severity` = 7 AND `timestamp` < (NOW() - INTERVAL 7 DAY) LIMIT 1000;"
```

## **Linux**

```
mysql -u openaudit -popenauditpassword -e "USE openaudit; DELETE FROM `logs` WHERE `severity` = 7 AND `timestamp` < (NOW() - INTERVAL 7 DAY) LIMIT 1000;"
```

## Adjust the configurable option in MySQL

### **Windows**

Open the file c:\xampplite\mysql\bin\my.cnf in a text editor.

Find the value for innodb\_buffer\_pool\_size and increase as required.

Restart the MySQL service.

### **Linux**

There may be no actual option set. In that case, it will default to 16M. Add an entry (if required) or adjust the existing entry.

Restart the MySQL service.

## Set the Open-Audit config to purge log entries

As an Open-Audit user who has the Admin role, go to menu -> Admin -> Configuration -> List Configuration.

You will see entries for log\_retain\_level\_[0-7]. I would first adjust the "debug" level logs (ie - 7) to be purged more aggressively. Say 4 days. This is entirely up to you as the user. If you have increased your innodb\_buffer\_pool\_size, this may not be required at all. You could even increase this retention period - assuming your innodb\_buffer\_pool\_size (and server) can cope.