

# How to backup and quick restore your MySQL database

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### How to backup and quick restore your MySQL database

Doing a backup and restore to MySQL is straightforward but the restore is very slow and almost impossible to use with bigger database sizes (gigabytes).

#### **Traditional way**

If your database is not large then there is no reason to try optimize other than gzip the dump.

```
mysqldump -u <username> -p <database_name> | gzip >
  <backup_directory/backup_file.sql.gz>
```

If problems occur try options

- -maxallowedpacket=<maximumpacketsize> to allow larger packets, for example 1G = 1073741824
- -lock-tables=false to disabled locking while dumping

Restore database with command

```
gzip -dc <backup_directory/backup_file.sql.gz> | mysql -u root -p
<database_name>
```

#### Traditional way tuned with larger databases

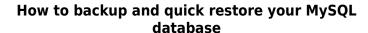
This should help you backup / restore databases of several gigabytes of size.

Backing up should work similarly to the above

```
mysqldump -u <username> -p <database_name> | gzip >
  <backup_directory/backup_file.sql.gz>
```

But when restoring we need to do it in mysql shell

```
gzip -d <backup_directory/backup_file.sql.gz>
mysql -u root -p
set global net_buffer_length=1000000;
set global max_allowed_packet=1073741824;
set foreign_key_checks = 0;
source <backup_directory/backup_file.sql.gz>;
set foreign_key_checks = 1;
```



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#### Import / Export for huge databases

I think the most efficient solution to really big databases is to export-import with comma separated files.

Exporting can be done with mysqldump command:

```
chown mysql.mysql <backup_directory>
mysqldump -u root -p -t -T<backup_directory> <database_name> --fields-
enclosed-by=\" --fields-terminated-by=,
```

Importing needs you to log in with mysgl client and issuing command:

```
LOAD DATA FROM INFILE </path/to/backup/directory/table.csv> INTO TABLE  FIELDS TERMINATED BY ',';
```

Try and leave a comment below.