

# MySQL Connector and Web-Interface for DX Spider by Stanley Grixti 9H1LO

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## Purpose:

The propose of the script is to extract the DXSpots from the DXSpider data files and write them into a MySQL database. This gives the facility of interfacing to the spots in many ways, mainly from a web interface, which was the main reason for developing this script. MySQL offers a fast and query based database which can also be accessing from log book programs ect.

## Prerequisites:

- Linux Operating System
- DXSpider
- Apache 2.2
- MySQL 5
- PHP5

## Create the database schema:

```
mysql> CREATE DATABASE `dxcluster` ;
```

## Create the tables:

```
CREATE TABLE `dxcluster`.`spots` (  
  `freq` DOUBLE( 12, 3 ) UNSIGNED NOT NULL ,  
  `call` VARCHAR( 85 ) NOT NULL ,  
  `datetime` VARCHAR( 85 ) NOT NULL ,  
  `commets` VARCHAR( 100 ) NULL ,  
  `spotter` VARCHAR( 85 ) NOT NULL  
) ENGINE = MYISAM
```

## Now we create the scripts for datacollection:

### Create a file called *start.txt* and *newspots.dat*

```
touch start.txt  
touch newspots.dat
```

## Now create a file called *dxmysql.sh* and insert the following:

```
i=$(cat /spider/data/spots/2008/start.txt)  
doy=`date +%j`  
v=`cat /spider/data/spots/2008/$doy.dat |wc -l`  
sed -n "$i,$v p" /spider/data/spots/2008/$doy.dat > /spider/data/spots/2008/newspots.dat  
let "v++"  
echo $v > /spider/data/spots/2008/start.txt  
mysql -u <mysqlusername> -p<mysqlpassword> -e "load data infile  
'/spider/data/spots/2008/newspots.dat' into table dxcluster.spots fields terminated by '^' lines terminated by '\n';"
```

Now create a cron job (/etc/crontab) as follows:

```
0 0 * * * root echo "1" > /spider/data/spots/2008/start.txt
* * * * * root /spider/data/spots/2008/dxmysql.sh > /dev/null
```

Please ensure that the DXSpider server is set to use UTC as timezone.

Upload the PHP scripts to your /var/www directory

You only need to edit the file clusterdb.inc.php to set your MySQL user and pass.

Now access [http://your\\_site/cluster.php](http://your_site/cluster.php)

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Your comments would be greatly appreciated by email to [stanley@9h1lo.net](mailto:stanley@9h1lo.net)

Best 73's and enjoy the software

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