MySQL

I am using MySQL 5.1. As a rookie, here are some basic commands I feel useful to know.

Some basic mysql commands

Use mysql client to access the database.

\$ myslq -u database-user -p Show databases mysql> show databases; Database | information_schema | mysql | phpmyadmin 4 rows in set (0.00 sec) Change to a database mysql> use mytest; Show tables mysql> show tables; Show a table structure mysql> describe table-name; List procedures mysql> select ROUTINE_NAME from information_schema.ROUTINES; Show a view or procedure's definition mysql> SHOW CREATE VIEW view-name; mysql> SHOW CREATE PROCEDURE procedure-name; or $mysql > select\ ROUTINE_DEFINITION\ from\ information_schema. ROUTINES\ where\ ROUTINE_NAME='procedure-name';$ Show errors or warnings of just executed command mysql> SHOW WARNINGS; mysql> SHOW ERRORS; Kill a sql process

Some useful SQL commands

mysql> SHOW FULL PROCESSLIST;

mysql> KILL theprocessid;

To kill a heavy sql process: find the id of that process and kill it

Find Duplicates of a field set

```
mysql> select *, count(*) as count from table-name group by field1, field2, ... having count(*) >1;
```

Get median generally

There are some useful group by functions in MySQL, like avg(), std(), max() and so on, but there is not a median function. Following SQL statement is a general way to achieve this purpose

```
SELECT m.name, avg(m.medians) medians from (
    SELECT x.name, x.val medians
    FROM A x, A y
    WHERE x.name=y.name
    GROUP BY x.name, x.val
    HAVING SUM(y.val <= x.val) >= COUNT(*)/2
    AND SUM(y.val >= x.val) >= COUNT(*)/2
)AS m group by m.name;
```

Save SQL results in a csv file,

```
SELECT ...

FROM ...

INTO OUTFILE '/tmp/sqlresults.csv'

FIELDS TERMINATED BY ','

OPTIONALLY ENCLOSED BY '"'

ESCAPED BY '\\'

LINES TERMINATED BY '\n';
```