**MySQL Tips**
This is my compiled list of tips and tricks for working with MySQL.

**Show which database is currently selected (if no database selected: null):**
```
select database();
```

**Show all table metadata from one database:**
```
SHOW TABLE STATUS FROM database_name;
```

**Using information_schema database**
(Access INFORMATION_SCHEMA database directly, if you have SELECT-privilege.)

**Information about particular table:**
```
SELECT
    *
FROM
    information_schema.tables
WHERE
        table_schema = 'my_db'
    AND table_name = 'my_tab_name';
```

**Information about columns:**
```
SELECT
      table_name
    , column_name
    , column_comment
FROM
    information_schema.columns
WHERE
        table_schema = 'my_db'
    AND table_name = 'my_tab_name';
```

**Displays all available "information-tables":**
```
SHOW TABLES FROM information_schema;
```

**List all information, in all tables, in all databases, except the following databases:**
```
select * from information_schema.tables
where table_schema not in('information_schema', 'performance_schema',
'mysql');
```

**List all tables in database mytest, in reverse order, displaying table name, type, and storage engine:**
```
SELECT table_schema, table_name, table_type, engine
FROM information_schema.tables
WHERE table_schema = 'mytest'
ORDER BY table_name DESC;
```

**List table_schema, table_name, table_type, engine, table_rows, in all tables, in all databases, except the following databases:**
```
-- order by database name and table name ascending
SELECT table_schema, table_name, table_type, engine, table_rows
FROM information_schema.tables
where table_schema not in('information_schema', 'performance_schema',
'mysql')
ORDER BY table_schema ASC, table_name ASC;
```

**List all foreign keys and references in ALL databases:**
```
select
    concat(table_name, '.', column_name) as 'foreign key',
    concat(referenced_table_name, '.', referenced_column_name) as
'references'
from
    information_schema.key_column_usage
where
    referenced_table_name is not null;
```

**List all Foreign keys, database, table, and attribute names in ALL databases:**
```
SELECT
fk.table_schema as 'schema',
fk.table_name as 'table' ,
fk.column_name as 'column',
fk.constraint_name as 'constraint_name'
FROM `information_schema`.`KEY_COLUMN_USAGE` fk
where
fk.referenced_column_name is not null;
```

**List all Foreign keys in ONE database:**
```
SELECT
fk.table_schema as 'schema',
fk.table_name as 'table' ,
fk.column_name as 'column',
fk.constraint_name as 'constraint_name'
FROM `information_schema`.`KEY_COLUMN_USAGE` fk
where
fk.referenced_column_name is not null and fk.table_schema like
'database_name';
```

**Note:** If the FOREIGN KEY clause included a CONSTRAINT name when you created the foreign key, you can refer to that name to drop the foreign key. Otherwise, the fk_symbol value is internally generated by InnoDB when the foreign key is created. To find out the symbol value when you want to drop a foreign key, use the **SHOW CREATE TABLE** statement

**To display all users Grants (for backup purpose as example) :**
```
SELECT CONCAT('SHOW GRANTS FOR \'', user ,'\'@\'', host, '\';') FROM
mysql.user;
```

**To specify resource limits for an existing user without affecting existing privileges, use GRANT USAGE at the global level (ON *.*) and name the limits to be changed.**
```
GRANT USAGE ON *.* TO ...
  WITH MAX_QUERIES_PER_HOUR 500 MAX_UPDATES_PER_HOUR 100;
```
(Limits not specified retain their current values.)
**View query results in HTML or XML (or just append --xml):**
```
C:\mysql\bin>mysql -h 127.0.0.1 -u root -p --port=3307 --html
```

**After changes to full-text search variables MUST rebuild indexes, fast way...**
```
REPAIR TABLE tbl_name QUICK;
```

**Dump table data in SQL and CSV formats (to bin dir.)**
```
mysqldump -h 127.0.0.1 -u root -p --port=3307 -T . --fields-terminated-by=",
" database_name table_name
```

**Show one table's metadata:**
```
describe (or explain) table_name;
```

**Show table comments:**
```
show full columns from emp_hist;
```

**Obtain CREATE TABLE code:**
```
SHOW CREATE TABLE table_name
```

**Change command prompt**
```
mysql>prompt \u:/\d>
```

**Changes to…**
```
PROMPT set to '\u:/\d>'
user_name:/database_name>
```

**Display which threads are running:**
```
show full processlist;
```
(If you do not use the FULL keyword, only the first 100 characters of each statement are shown in the Info field.)

**Show processlist with out all the sleeping processes…**
```
\P grep -v Sleep;
```
http://dev.mysql.com/doc/refman/5.1/en/show-processlist.html

**Display and change number of max connections:**
```
show variables like "max_connections";
set global max_connections=200;
show variables like "max_connections";
```

**Display connection variables:**
```
mysql> show status like '%onn%';
+-------------------------+-------+
| Variable_name           | Value |
+-------------------------+-------+
| Aborted_connects        | 598   |
| Connections             | 3745  |
| Max_used_connections    | 101   |
| Ssl_client_connects     | 0     |
| Ssl_connect_renegotiates | 0    |
| Ssl_finished_connects   | 0     |
| Threads_connected       | 1     |
+-------------------------+-------+
```

**Connections:**
The number of connection attempts (successful or not) to the MySQL server

**Max_used_connections:**
Maximum number of connections that have been in use simultaneously since server started.

http://dev.mysql.com/doc/refman/5.1/en/server-status-variables.html