

MySQL Crib Sheet

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1 Basic Commands

1.1 Creation

```
mysqladmin -u [user] -p create db
```

1.2 Selection

```
SELECT (columns) FROM table
      WHERE (conditions, 'and', 'or')
      ORDER BY col GROUP BY col;
```

1.3 Insertion

```
INSERT INTO table [(cs attr list)]
      VALUES (cs data list)+;
```

1.4 Update

```
UPDATE table SET var1=val1, var2=val2
      [WHERE cond];
```

1.5 Delete

```
DELETE FROM table [WHERE condition];
```

1.6 Join

```
SELECT * FROM t1, t2;
SELECT * FROM t1 INNER JOIN t2
      ON t1.id=t2.id;
SELECT * FROM t1 LEFT JOIN t2
      ON t1.id=t2.id;
SELECT * FROM t1 LEFT JOIN t2
      USING (id);
SELECT * FROM t1 LEFT JOIN t2
      ON t1.id=t2.id
      LEFT JOIN t3 ON t2.id=t3.id;
```

2 Python

```
db = mysql.connect(host=DBHOST,
                  user=DBUSER, passwd=DBPASS,
                  db=DBNAME)
cursor = db.cursor()
if cursor.execute("sql") == 0:
    print "fail"
dataLst=cursor.fetchone()
print dataLst[0]
```

3 PHP

```
$conn = mysql_connect($dbhost,
                    $dbuser, $dbpass)
        or die('mysql connect error');
$dbname = 'database';
mysql_select_db($dbname);
$result = mysql_query("sql")
        or die(''.mysql_error());
$row = mysql_fetch_assoc($result);
print $row['index']
```

4 MySQL Commands

4.1 Command Line

```
mysql -u username -p [pw] database
cat file.sql | mysql
```

4.2 Backup

```
mysqldump --all-databases > file
```

4.3 Primary Keys & Indices

```
alter table <table> add primary key (field)
alter table <table> add index (field)
```

1. MySQL Reference: <http://dev.mysql.com/doc/refman/5.0/en/join.html>
2. Professional Linux Programming, Matthew & Stones