Database Components:

Tables Columns Records/Rows

DB server CLI

- show databases:
- use dbName
- show tables

GRANTING PERMISSIONS

"GRANT PRIVILEGES ON database.object

TO 'username' @'hostname' IDENTIFIED BY 'password'

GRANT PRIVILEGES ON testDB.* to 'catMiller'@'localhost' BY ' (pass)'

RECIPES:

Modifying column data type:

ALTER TABLE tblname MODIFY COLUMN colname newType(newlen) SELECT colname1, colname2

Modifying column name:

ALTER TABLE tblname CHANGE

COLUMN oldname newname;

Common CMDs

- Alter
- Backup
- \c (cancel input)
- Create
- Delete
- Describe
- Drop (tables)
- Insert (add record to tbl)

MYSQL DATA TYPES

- VARCHAR string with max length
- CHAR string with fixed length
- BINARY, BYTE store binary data
- Varbinary Up to 65536 bytes
- **BLOBS** binary large object
- FLOAT: 32bit dec. number w sign
- DOUBLE: 64bit dec number w sign
- INT integer

Getting Data out:

SELECT * FROM tblname FROM tblname;

Insert Example:

INSERT INTO tblname (colname1, colname2, ..., colnamex) VALUES ("val1", "val2",...,"valx");

LOAD DATA FROM FILES

LOAD DATA INFILE 'data.csv' INTO TABLE tbl name

FIELDS TERMINATED BY ',' ENCLOSED BY "" LINES TERMINATED BY '\r\n' IGNORE 1 LINES

(@var1, @var2) set colname1=@col1, colname3=@var2

> (grey text only applies if your file's columns don't match the table)

WRITE QUERY INTO FILE

SELECT col1,...,coln FROM TABLE [order by group] by etc] into outfile 'filename.csv' FIELDS TERMINATED BY ',' ENCLOSED BY "" LINES TERMINATED BY '\r\n'; eg: SELECT * FROM transactions INTO OUTFILE 'test.csv' FIELDS TERMINATED BY ',' LINES TERMINATED BY '\r\n';

Creating Table

mysgl> create table transactions (-> id INT UNSIGNED NOT NULL AUTO INCREMENT KEY, -> sid char(5) NOT NULL, -> donation FLOAT NOT NULL) ENGINE MyISAM; Query OK, 0 rows affected (0.03 sec)