Working with Big Data in SQL

Bulk Inserts
Embedding SQL in Python

Importing Large Amounts of Data

- Assuming data is in a text format (e.g., a comma separated file)
- Two options
 - 1. INSERT INTO
 - 2. From command line using *mysqlimport*
- Inherently the same

Using INSERT INTO

- ◆LOAD DATA LOCAL INFILE <filename.csv> INTO TABLE <tablename> FIELDS TERMINATED BY ',' ESCAPED BY "' IGNORE 1 LINES;
- IGNORE header if exists

From Command Line

- mysqlimport --local --fields-terminatedby=, --fields-enclosed-by='\" --ignorelines=1 -u <username> -p <dbname> <filename>
- Expects the filename to have the same prefix as the table name
- Calls LOAD DATA internally

Connecting to Database from Python

- Need a connector
 - This is true for any programming language
- MySQLdb or PyMySQL
 - MySQLdb is a thin wrapper around the _mysql API (originally developed for C)
 - PyMySQL is a pure Python library
- We will use PyMySQL