

CSE 111 – DATABASE SYSTEMS

Lab 2

In this Lab session you are required to generate data using the TPC-H data generator, load it into the SQLite database you created during Lab 1, and run some simple queries to visualize the generated data.

1. Download and extract the TPC-H data generator from <http://www.tpc.org/tpch/>.
2. Read the documentation and the README file.
3. Read the instructions in makefile.suite and generate a Makefile from it by defining the required variables:
 - CC is the compiler
 - DATABASE is the database
 - MACHINE is the operating system
 - WORKLOAD is TPC-H
4. Compile the code according to the instructions in the documentation.
5. Generate a scale factor 0.01 TPC-H database using DBGEN. At this point you will have a series of .tbl files, one for each relation you defined in Lab 1. Take a look over these files.
6. Load the data from these files into the database you created in Lab 1. You need to use the commands provided by SQLite to do this.
7. Execute some simple SQL commands to visualize the data in the tables in the database.

You are required to run simple queries that return the number of tuples (records) and all the tuples in each table during the lab session.