CSE 111 – DATABASE SYSTEMS
Lab 8, Nov 1, 2012

In this lab you will learn how to operate with triggers in SQLite:

1. Create a trigger that for each new `orders` entry will automatically fill the `o_orderdate` with today's date (DATETIME('NOW')).

2. Create a trigger that will add a warning line in the comment attribute of the `customer` table each time `c_acctbal` will be updated to a negative value. Also, create a trigger that will remove that warning if the value will go back positive.

3. Create a trigger that will update the attribute `o_orderpriority` to HIGH each time a new `lineitem` tuple is added to or deleted from that order.

4. Create a table `orderlog` with the following attributes:

```
orderlog (
t_logkey INTEGER PRIMARY KEY,
t_commandname VARCHAR(25),
t_commanddate DATE,
t_orderkey INTEGER NOT NULL,
t_totalprcenew DECIMAL(8, 2) NOT NULL
);
```

Create 3 triggers that will generate a new tuple for this table each time a new order is added, removed or updated. `t_commandname` should reflect the command that was run (i.e. DELETE, INSERT or UPDATE), `t_commanddate` should correspond to the time of running the command, `t_orderkey` – the order key being edited and `t_totalprcenew` the new price of the order (0 if the order has been deleted).

You are required to submit a file containing the created triggers.