INST 327 – Database Design and Modeling

Assignment 2 - Due: Monday, February 25, 2018, 11:59 PM Questions

Q.1) (15 points)

Write 2 queries to create copies of the addresses and orders tables. Name them address_copy and order_copy

To allow for repeated clean executions of your script, precede the CREATE TABLE statements with DROP TABLE statements. To ensure that the script will run cleanly even when the tables have not yet been created, use the IF EXISTS feature of the DROP statement.

Q.2) (20 points) Write an INSERT statement that adds the following data to the addresses table. Code the INSERT statement such that MySQL automatically generates the address_id column.

customer id: 6

line1: 12765 Jefferson Str.

line2: Apt 217 city: College Park

state: MD

zip_code: 20742

phone: 301-217-8888

disabled: 0

Q.3) (20 points) Write an INSERT statement using a column list to add this row to the orders table. Pay careful attention to the comments below.

order_id: /*The next automatically generated ID*/

customer id: 6

order date: /*Assume the order is taken on September 25, 2017, at 11:35:18 AM */

ship_amount: 5 tax_amount: 0

ship date: /*Do not hard code the date and time; use a function that will

insert the date and time at the moment when the record is added. */

ship address id: /* Hard-code the address id value of the record added in Q.2 */

card_type: Visa

card number: 1234567890123456

card_expires: 06/2020 billing address id: 8

- **Q.4) (15 points)** Write an UPDATE statement that modifies two columns within the row that you added in Question 3 above. This statement should change the *tax_amount* column to *4.20* and should change the *card_type* to *Mastercard*.
- Q.5) (15 points) Write an UPDATE statement for the addresses table: set the disabled column to 1 for all addresses in the state of CA.
- **Q.6)** (15 points) Write a DELETE statement that deletes the row that you added to the addresses table in Question 2 above. Note that deleting the address record that was added in Q2 will leave the order record added in Q3 an "orphan", since the ship_address_id of the record will point to an address that does not exist in the database anymore. To eliminate the orphan record problem, precede the DELETE statement with another DELETE statement that deletes all rows in orders that were shipped to that address.

Hints:

- Remember that to code two or more statements in a script, you must end each statement with a semicolon.
- You need to turn Workbench's "Safe Updates" option off before you can run these DELETE queries. See the lecture slides for instructions; you must include this in the script that you submit.