```sql
 1   -- UNIVERSITY OF MASSACHUSETTS - LOWELL
 2   -- COMP3090: DATABASE I
 3   -- STUDENT: PHONG VO - SID: 01790283
 4   -- HOMEWORK 6
 5   --------------------------------------------------------
 6   -- Product(maker, model, type)                        |
 7   -- PC(model, speed, ram, hd, price)                   |
 8   -- Laptop(model, speed, ram, hd, screen, price)       |
 9   -- Printer(model, color, type, price)                 |
10   --------------------------------------------------------
11
12   -- a) Using two INSERT statements, store in the database the fact that PC model 1100 is
     made by manufacturer C, has speed 3.2, RAM 1024, hard disk 180, and sells for $2499.
13           INSERT INTO product VALUES ('C', 1100, 'pc');
14           INSERT INTO pc VALUES (1100, 3.2, 1024, 180, 2499);
15
16
17   --!b) Insert the facts that for every PC there is a laptop with the same manufacturer,
     speed, RAM, and hard disk, a 17-inch screen, a model number 1100 greater, and a price
     $500 more.
18       INSERT INTO product
19           (SELECT maker, model+1100,'laptop'
20            FROM product
21            WHERE type='pc');
22       INSERT INTO laptop
23           (SELECT model+1100, speed, ram, hd, 17, price+500
24            FROM PC);
25
26
27   -- c) Delete all PC's with less than 100 gigabytes of hard disk.
28           DELETE FROM pc
29           WHERE hd<100;
30
31
32   -- d) Delete all laptops made by a manufacturer that doesn't make printers.
33           DELETE FROM laptop
34           WHERE model IN (SELECT model
35                           FROM product
36                           WHERE maker IN (SELECT DISTINCT maker
37                                           FROM product
38                                           WHERE maker NOT IN (SELECT maker
39                                                               FROM product
40                                                               WHERE type='printer')));
41
42
43   -- e) Manufacturer A buys manufacturer B. Change all products made by B so they are now
     made by A.
44           UPDATE product
45           SET maker='A'
46           WHERE maker='B';
47
48
49   -- f) For each PC, double the amount of RAM and add 60 gigabytes to the amount of hard
     disk. (Remember that several attributes can be changed by one UPDATE statement.)
50           UPDATE pc
51           SET ram=ram*2, hd=hd+60;
52
53
54   --!g) For each laptop made by manufacturer B, add one inch to the screen size and
     subtract $100 from the price.
55           UPDATE laptop
56           SET screen=screen+1, price=price-100
57           WHERE model IN (SELECT model FROM product WHERE maker='B');
```