Exercises on Transactions and Triggers

Create a database 'Stocks' with the four relations Laptops, Products, Printers, and Personal Computers and answer the following questions based on the database. Data for the relations are given in the 2^{nd} and 3^{rd} page of the exercise.

Write transactions for each of the following cases:

- 1. To display the laptops with speed more than 600.
- 2. List down the laptops with RAM size 64.
- 3. To find the maker and the type of the cheapest price laptop.
- 4. To find the details of the PC with the highest price.
- 5. List down the model numbers and price of colour printers.
- 6. To find the makers of laptops.
- 7. To find the makers of printers.
- 8. To find the maker of the high speed laptop.
- 9. To find the maker and price of the high speed PC.
- 10. To find the RAM size of the slowest PC.

Write triggers for each of the following cases:

- 1. To check the RAM size of the PC is either 64, 128, or 256 before insert a new records. Check the trigger with one true case and one false case example.
- 2. Increase the price of all the printers by 2 times of the current price. Store the old price and model of the printers in before performing the update.
- 3. Delete the records of all the printers from product and store the details of deleted records in a separate relation.

Laptops					
LT Model	LT Speed	LT RAM	LT HD	Screen	LT Price
2001	700	64	05	12.1	1448
2002	800	96	10	15.1	2584
2003	850	64	10	15.1	2738
2004	550	32	05	12.1	999
2005	600	64	06	12.1	2399
2006	800	96	20	15.7	2999
2007	850	128	20	15.0	3099
2008	650	64	10	12.1	1249
2009	750	256	20	15.1	2599
2010	366	64	10	12.1	1499

Personal Computers					
PC Model	PC Speed	PC RAM	PC HD	CD ROM	PC Price
1001	700	64	10	48XCD	799
1002	1500	128	60	12XCD	2499
1003	866	128	20	8XCD	1999
1004	866	64	10	12XCD	999
1005	1000	128	20	12XCD	1499
1006	1300	256	40	16XCD	2119
1007	1400	128	80	12XCD	2299
1008	700	64	30	24XCD	999
1009	1200	128	80	16XCD	1699
1010	750	64	30	40XCD	699
1011	1100	128	60	16XCD	1299
1012	350	64	07	48XCD	799
1013	733	256	60	12XCD	2499

Printers				
PR Model	Colour	PR Type	PR Price	
3001	true	ink-jet	231	
3002	true	ink-jet	267	
3003	false	laser	390	
3004	true	ink-jet	439	
3005	true	bubble	200	
3006	true	laser	1999	
3007	false	laser	350	

			Products
Maker	Model	Type	ľ
A	1001	рс	
A	1002	рс	
A	1003	рс	
A	2004	laptop	
A	2005	laptop	
A	2006	laptop	
В	1004	рс	
В	1005	рс	
В	1006	рс	
В	2001	laptop	
В	2002	laptop	
В	2003	laptop	
С	1007	рс	
С	1008	рс	
С	2008	laptop	

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Model	Type
2009	laptop
3002	printer
3003	printer
3006	printer
1009	рс
1010	рс
1011	рс
2007	laptop
1012	рс
1013	рс
2010	laptop
3001	printer
3004	printer
3005	printer
3007	printer
	3002 3003 3006 1009 1010 1011 2007 1012 1013 2010 3001 3004 3005