Database Management with SQL using MySQL Server

ELEC Agency sales **elec**tric and **elec**tronic products with the branches located in various districts. They maintain 4 separate data sheets to keep their company details as follows.

Item datasheet - Details of electric and electronic products
Store datasheet - Details of stored quantities in their branches

Location datasheet - Details of the branches

Based on this case, develop the **ELEC** database in **MySQL** and practice the questions in your assignment.

 Log on to the MySQL server using given user name and password. mysql -u root -p

- 2. Create a blank database as "sxxxxelec". (Start your database name with "s" followed by four digits of your registration number. Eg: s3400elec) create database sxxxxelec:
- 3. Active your database as the current working database.
- 4. Create table called "item" using the following structure. (item_code should be the primary key)

Description of the Table structure

Field Name	Data Type	Length	Properties
item_code	Char	4	Primary Key
It_description	Varchar	25	
It_unit_price	Double	(9,2)	
It_imported	int		
It_supplier	Text	20	

create table item

(item_code char(4) primary key, it_description varchar(25), it_unit_price it_imported it_supplier char(20) char(4) primary key, double(9,2), it_unit_price int, it_supplier char(20));

 Add following records to above table. insert into item values('IT10','Television',2400.00,1,'Sony');

item_code	It_description	It_unit_price	It_imported	It_supplier
IT10	Television	24000.00	1	Sony
IT11	Computer	60000.00	1	Dell
IT11	Laser Printer	19000.00	1	HP
IT13	VCD Player	7599.00	1	
IT16	Scanner	16000.00		HP
IT17	Refrigerator	65000.00	1	LG
IT18	Table Lamp	2999.90	0	Abans
IT19	Wall Clock	1200.00	1	
IT20	Blender	4800.00	1	National
IT14	Oven	7300.00	0	Abans

6. Create the following table structure called **location**. (lo_code should be the primary key)

Field Name	Data Type	Length	Properties
lo_code	char	4	Primary Key
lo_name	varchar	25	
Lo_address	Text	50	

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7. Enter following data into **location** table.

lo_code	lo_name	lo_address	
L01	Colombo	Colombo 04	
L02	Kalutara	Main Street	
L03	Matara	Dharmapala Mawatha	

8. Observe the following data set and create a suitable table structure called **store** to add following record to the same table.

st_item_code	st_location_code	st_qty	st_date
IT10	L01	30	2015-04-08
IT10	L03	10	2015-04-25
IT11	L01	25	
IT11	L02	12	2015-05-07
IT13	L03	60	2015-05-09

Write following Queries using SQL statements

- 9. Find out the names of the tables you have created in your database.
- 10. Examine the structure of the table item.
- 11. Exit from MySQL server and log on again.
- 12. Retrieve all records from item table.
- 13. Retrieve all records from **location** table.
- 14. Retrieve all records from **store** table.
- 15. Retrieve it_description and it_unit_price from Item table
- 16. Retrieve the item codes from **store** table.
- 17. Retrieve the item codes without repetition from **store** table.
- 18. Retrieve item codes which are stored in the location L01.
- 19. List the item descriptions begin with letter T.
- 20. List the item descriptions end with er.
- 21. List the details of items of supplier Dell, HP and LG
- 22. Get the item code and the item name which supplier is not known.
- 23. Get the item code and the item name which supplier is known.
- 24. Retrieve all records from Item table where **unit_price** is greater than 20000.00.
- 25. Retrieve description, stored quantity and location name where items unit_price exceeds 20000.00.

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