CS355   Database Lab

Date: 3rd Sep 2020   **Deadline: 4th Sep 2020 (9:00 am)**

Assignment 3   **Submission File Name: CS355_assign3.txt**

In today's lab, perform the followings using MySQL database system.

You can login as scot/tiger and use your dblab database that you have already created for your previous assignments. You must have the following tables available in the dblab database.

- Suppliers(SID varchar (10), SName varchar (10), City varchar (10)
- Products (PID varchar(10), PName varchar(10), WarrantyPeriod smallint, DoM date)
- SP (SID varchar(10), PID varchar(10), Qty smallint) with SID and PID are defined as the foreign key constraint to Suppliers (SID) and Products (PID) respectively
- SP table basically provides which supplier has supplied which products and in how many quantities.

For each of the following questions, write a MySQL query. You need to insert required values in the tables to check whether the MySQL queries are working or not.

#1) Find the name of the Suppliers who have supplied more than one Product (in terms of different PIDs)

#2) Find the Supplier ID of the Suppliers who have supplied some specific Product more than five in quantity

#3) Find the PID(s) with highest warranty period.

#4) Find the name of the suppliers who have not supplied any items.

#5) Find the total number of suppliers city wise.

#6) Find the city (or cities) with least number of suppliers

#7) Check whether the suppliers 'S001' and 'S002' are from same city or not

#8) Find the PID of the product which has been supplied atleast 5 in quantity and by atleast 5 number of suppliers.

#9) Find the total quantity of each product supplied by supplier 'S003'

#10) Find out the products with same name but with different warranty periods.

#11) Find out the supplier ID, city, PID and total quantity supplied by each supplier.

#12) Check whether the supplier with name 'Dharmesh' has supplied product with product name 'screw'

Now write all the MySQL queries that you have used to perform the aforementioned functionalities in **CS355_assign3.txt** file. You should mention your name and roll no at the top of this file.

Upload the file using the following link –

https://www.iitp.ac.in/~samrat/CS354_CS355/submission