

CS355 (Lab) LAB Assignment #4 Dated 20/Aug/2018

Create a database name SP. In this database create the following three tables which capture the information related to supplier and parts database.

- I. `supplier<sno,sname,city,phone,email> /*sno is the primary key*/`
- II. `parts<pno,pname,weight,color> /*pno is the primary key*/`
- III. `sp<sno,pno,qty> /*sno, pno combination is the primary key. Also, sno is a foreign key which refers to supplier.sno. Again, pno is also a foreign key which refers to parts.pno.*/`

Make the following assumptions while creating the tables-

- phone numbers are 10 digits. E.g. 9898989897
- values of sno start with char 's'. e.g. 's123','s534', etc.
- values of pno start with char 'p'. e.g. 'p10','p23', etc.

In your *sp* database add one *dos* (date of supply) attribute in the *sp* table, add one (date of manufacture) in parts table and *dob* (date of birth) attribute in *supplier* table. Thus the new schema will be as follows-

- I. `supplier<sno, sname, city, phone, email, dob>`
- II. `parts<pno, pname, weight, color, dom>`
- III. `sp<sno, pno, qty, dos>`

Now write MySQL query to perform each of the followings. You may have to add required data to test your queries.

- 1) Find the name of the youngest supplier.
- 2) Find the details of the suppliers who are more than 30 years old.
- 3) Show the average age of the suppliers from each city.
- 4) Find the name of the suppliers who have supplied parts in the year 2012.
- 5) Find the name of the suppliers who have supplied parts after 1st Feb-2015.
- 6) Find the name of the most recently supplied parts.
- 7) Find the name of the suppliers who have supplied atleast two parts and one part is supplied within 30 days of supply of previous part.
- 8) If the warranty period is 3 months from the date of supply then show the warranty expiry date of each items supplied.
- 9) If the warranty period is 3 months from the date of supply then show the part no. (supplied by 's123') that are still under warranty.
- 10) Show the name of the suppliers who have supplied more than 6 months old items.