

Databases and Information Systems Laboratory

Course code: CS313

Assignment 3

Date: 3rd September 2021

Total: 75 Points

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1. Create User and Database called lab3 10 Points
(instructions for creating user and database are given at the last section of this page)
 2. Create the following tables. The attributes with id mentioned are keys for the respective Tables.:
 - part - part-no (id), part-name, colour, weight 5 Points
 - supplier - supplier-no (id), sup-name, city, bank 5 Points
 - shipment - shipment-no (id), part-no, supplier-no, date, quantity, price (per unit)(Shipment contains data about parts supplied by various suppliers) 5 Points
 3. Add one tuple in each table interactively using the mysql insert statement. 6 Points
 4. Create a .sql file to load more data in these tables so that they have at least 3 parts, 2 suppliers, and 4 shipments for each part. (instructions for creating .sql file are given at the last section of this document)
There are two tasks to be done here:
 - i. Create a .sql file with relevant insert statements,
 - ii. Use the sql file to reflect the changes (i.e., insert query related changes) in the respective tables.**Please submit the .sql file which you have created.** 14 Points
 5. Write the SQL queries for the following questions. (Please write the same in the report)
 - a. List suppliers who have supplied red parts. 5 Points
 - b. Get the total cost of shipments for all suppliers for making payments to them. 10 Points
 - c. List suppliers who have supplied all parts. 15 Points

NOTE:

1. Due date for Assignment is **3rd September 2021(5:30PM)**.
2. We will run a plagiarism check for all the submissions.
3. Submit your answers the .pdf file named with your **<roll_number>.pdf**
4. For question number 4 please submit the .sql file which you have created
5. Mode of submission is moodle.
6. Penalty for late submission is 15% of secured marks.
7. Penalty for plagiarism is 100% of the secured marks.

Instructions

- **Creating the user:**

mysql> create user 'UserName'@'localhost' identified by 'Password';

- Grant the privileges to the user

mysql> grant all privileges on db_name. to 'UserName'@'localhost';*

- **To login with a new user**

\$ mysql -u UserName -p

Enter password:

- **Creating the database:**

mysql> create database db_name;

- **Connecting to database**

mysql> use db_name;

- **Instructions for creating .sql file**

1. Use any text editor and create a file(such as gedit or sublime etc.)
2. Include the insert statements in the .sql file as it is.(with respect to Q 4).
3. Save the file with extension as .sql

- **Running .sql file in mysql terminal**

mysql> source <path to file><filename.sql>