

ComS 363 Fall 2022
Class Participation for Week 6

Topics: Stored Procedures

Learning objectives:

1. Practice writing stored procedures.
2. Practice more SQL queries.

Collaboration of students in class is allowed.

Instruction:

Execute suppliers_supply_parts.sql in MySQL workbench to generate the database "supplierparts" with the following relations.

Suppliers(sid int, sname VARCHAR(30), address VARCHAR(50), primary key(sid)); this table stores information about suppliers.

Parts(pid int, pname VARCHAR(30), color VARCHAR(10), primary key(pid)); this table stores information about parts.

Catalog(sid int, pid int, cost decimal(10,0), primary key(sid,pid), foreign key(pid) references Parts(pid), foreign key(sid) references Suppliers(sid)); this table stores information about which suppliers supply which parts for how much as indicated in the cost column.

Write a stored procedure for each question below. See the example numParts.sql which implements the stored procedure for the question 1. Do not list other attributes not requested in the questions as part of your results. Each stored procedure is to be written in its own file. The first statement in each file drops an existing stored procedure of the same name. Submit your answers for all questions.

1. numparts() returns the number of parts in the Parts table.
How to call this stored procedure from MySQL Workbench?
call numparts();
2. suppliersWithoutParts() lists suppliers who do not supply any part. Shows only sid and sname of these suppliers.

Hint: This is similar to the query to find employees who do not work.

How to call this stored procedure from MySQL Workbench?

call suppliersWithoutParts();

3. redgreenSuppliers() returns distinct sids and snames of suppliers who supply a red part and a green part.

Hint: This is similar to the query to find people who works in both Production and Maintenance companies

How to call this stored procedure from MySQL Workbench?

call redgreenSuppliers();

There are 15 suppliers.

Revision: 09/29/2022

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4. `whosupplycolor(partcolor)` returns distinct *sids* and *snames* of suppliers who supply any of the specified part color. Don't list the same sid and sname values more than one time.

How to call this stored procedure from MySQL Workbench?

call `whosupplycolor('red,black')`;

There are 15 suppliers.