Hands-on Lab: Stored Procedures



Stored Procedures in SQL are a type of database object that allow you to encapsulate a series of SQL statements into a single routine. They are stored in the database data dictionary and can be invoked from an application program or from the database command interface. Stored procedures can accept input parameters and return multiple values of output parameters. They can also include control-of-flow constructs such as loops and conditional statements. Stored procedures offer several benefits including improved performance, higher productivity, ease of use, and increased scalability. They also provide a mechanism for enforcing business rules and data integrity in the database system.

Objectives

Create stored procedures
 Execute stored procedures

Software Used in this Lab

In this lab, you will use MySQL is a Relational Database Management System (RDBMS) designed to efficiently store, manipulate, and retrieve data



Database Used in this Lab

Data Used in this Lab

The data used in this lab is internal data. You will be working on the PETSALE table.

ID 🛋	ANIMAL	SALEPRICE	SALEDATE	QUANTITY
1	Cat	450.09	2018-05-29	9
2	Dog	666.66	2018-06-01	3
3	Parrot	50.00	2018-06-04	2
4	Hamster	60.60	2018-06-11	6
5	Goldfish	48.48	2018-06-14	24

For this lab, you need to create a database Pers in the phpMyddmin interface. Download the PETSALE table if exists, and will populate it with the required sample data

Stored Procedure: Exercise 1

In this exercise, you will create and execute a stored procedure to read data from a table on mysql phpadmin using SQL.

1. You will create a stored procedure routine named ETRIEVE_ALL

This ETRIEVE_ALL contains will contain an SQL query to retrieve all the records from the PETSALL table, so you don't need to write the same query over and over again. You just call the stored procedure routine to execute the query everyth.

To create the stored procedure routine, copy the code below and pasts it to the textures of the SQL page. Click Go.



2. To call the RETRIEVE_ALL routine, open another SQL tab by clicking Open in new Tab ← → C · a lakshmih-8080.theiadocker-1-labs-prod-theiak8s-4-tor01.proxy.cognitiveclass.ai/tbl_sql.php?db=HR8table=EMPLOYEES ☆ * \Lambda : phpMyAdmin - (Sever myor)3300 a Dalabese HR3 | Table EMPLOYES | 5 x Browse Structure SQL Search Se Open link in new tab Search lie Insert Export limport limpo New RR RWHOYEES A ROBERTHENTS A RWHOYEES A ROBERTHONES A R (SELECT) (SELECT) (INSERT) (UPDATE) (DELETE) (Clear) (Format) (Get auto-saved query) □ Bind parameters ⊕] O Show this query here again O Retain query box O Rollback when finished Z Enable foreign key checks

Delete the default line which appears so that you will get a blank window Copy the code below and paste it to the textarea of the SQL page. Click Go

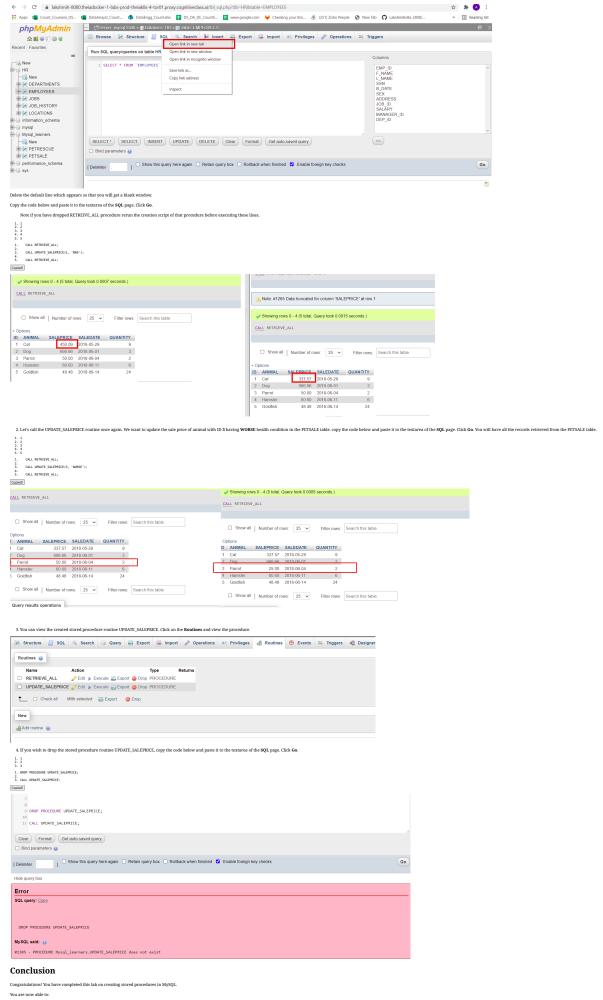
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1. Let's call the UPDATE_SALEPRICE routine. We want to update the sale price of animal with ID 1 having BAD health condition in the PETSALE table, open another SQL tab by clicking Open in new Tab

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Write a stored procedure

Drop a stored procedure once its utility is over

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 County
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