Research MySQL Stored Procedures and write about at least 5 constructs that can be utilized in stored procedures and give examples of how you would use them.

(i.e. loops, conditionals, parameters, etc...)

1. The While Loop will check an expression at the beginning of each iteration. If it comes back true MySQL will execute the statements between while and end while, until the expression comes back false. While loops have been given a nickname of pretest because it checks the expression before the statement executes.

Delimiter //

Create Procedure CalcSalary ( Starting Salary INT)

Return INT

Begin

Declare Salary INT;

Set Salary = 0;

Label1: While Salary <= 4500 do

Set Salary = Salary = Starting Salary;

End While Lable1;

Return Salary;

End; //

Delimiter; //

Label1: While Salary <= 4500 do

1. The Repeat Loop- MySQL will first execute the statements. Then it will check the statements, if the expression evaluates false, then MySQL will executes the statements repeatedly until the expression evaluates true. The repeat loop is also called a post-test loop.

Delimiter //

Create Procedure WhileLoop()

Begin

Declare Y INT;

Declare XLT Varchar(100);

Set Y = 1;

Set XLT = ’’ ;

Repeat

Set XLT = Concat (XLT,Y,’,’);

Set Y = Y + 2;

Until Y >= 12

End Repeat;

Select XLT;

End //

Delimiter; //

1. IN Parameter – the IN parameter is the default option when you are creating a stored procedure. The IN parameter passes in whatever is declared as the IN into the stored procedure.

Delimiter //

Create procedure GetEmployeesSalary(IN Salaries varchar(255))

Begin

Select \* from salaries where salary = salaries;

End //

Delimiter; //

1. IF Statement - IF statements will only be executed if the associated expression evaluates to true. IF statements can result in true, false, and null.

Delimiter //

Create Procedure `proc\_IF` (IN emp\_no INT)

Begin

    Declare emp\_no INT;

    Set emp\_no = 10044 + 1;

    IF emp\_no = 0 THEN

        Set 10045;

    End IF;

Delimiter ; //

1. OUT parameter - is used to return multiple things from mysql stored procedures.

Delimiter //

Create Procedure sum\_of\_two(IN num1 INT, IN num2 INT, OUT result INT)

Begin

    Set result := num1 + num2;

End

Delimiter ; //