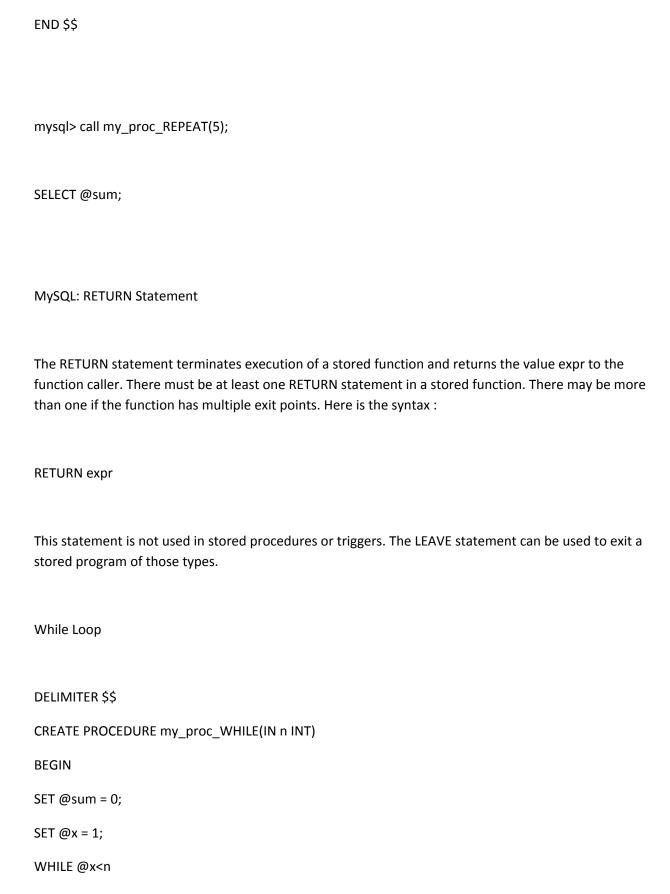
```
CREATE PROCEDURE my_proc_CASE`
(INOUT no_employees INT, IN salary INT)
BEGIN
CASE
WHEN (salary>10000)
THEN (SELECT COUNT(job_id) INTO no_employees
FROM jobs
WHERE min_salary>10000);
WHEN (salary<10000)
THEN (SELECT COUNT(job_id) INTO no_employees
FROM jobs
WHERE min_salary<10000);
ELSE (SELECT COUNT(job_id) INTO no_employees
FROM jobs WHERE min_salary=10000);
END CASE;
END$$
Number of employees whose salary greater than 10000:
To execute
CALL my_proc_CASE(@C,10001);
mysql> SELECT @C;
```

LOOPS

```
CREATE PROCEDURE 'my_proc_LOOP' (IN num INT)
BEGIN
DECLARE x INT;
       SET x = 0;
       loop_label: LOOP
               INSERT INTO number VALUES (rand());
               SET x = x + 1;
               IF x >= num
               THEN
                      LEAVE loop_label;
               END IF;
       END LOOP;
END$$
To execute
CALL my_proc_LOOP(3);
MySQL: REPEAT Statement
The REPEAT statement executes the statement(s) repeatedly as long as the condition is true. The
condition is checked every time at the end of the statements.
[begin_label:]
```

```
REPEAT
statement_list
UNTIL search_condition
END
REPEAT
[end_label]
statement_list: List of one or more statements, each statement terminated by a semicolon(;).
search_condition : An expression.
A REPEAT statement can be labeled.
DELIMITER $$
CREATE PROCEDURE my_proc_REPEAT (IN n INT)
BEGI
NSET @sum = 0;
SET @x = 1;
REPEAT
IF mod(@x, 2) = 0
THEN
SET @sum = @sum + @x;
END IF;
SET @x = @x + 1;
UNTIL @x > n
END REPEAT;
```



```
DO
```

```
IF mod(@x, 2) <> 0 THEN

SET @sum = @sum + @x;

END IF;

SET @x = @x + 1;

END WHILE;

END$$

mysql> CALL my_proc_WHILE(5);

Query OK, 0 rows affected (0.00 sec)

mysql> SELECT @sum;
```

ALTER PROCEDURE

| MODIFIES SQL DATA }

This statement can be used to change the characteristics of a stored procedure. More than one change may be specified in an ALTER PROCEDURE statement. However, you cannot change the parameters or body of a stored procedure using this statement; to make such changes, you must drop and re-create the procedure using DROP PROCEDURE and CREATE PROCEDURE. Here is the syntax:

```
ALTER PROCEDURE proc_name [characteristic ...]characteristic:

COMMENT 'string'

| LANGUAGE SQL

| { CONTAINS SQL

| NO SQL | READS SQL DATA
```

```
| SQL SECURITY { DEFINER
| INVOKER }
```

You must have the ALTER ROUTINE privilege for the procedure. By default, that privilege is granted automatically to the procedure creator. In our previous procedure "my_proc_WHILE" the comment section was empty. To input new comment or modify the previous comment use the following command:

```
mysql> ALTER PROCEDURE my_proc_WHILE
COMMENT 'Modify Comment';
>Query OK, 0 rows affected (0.20 sec)
```

You can check the result through SHOW CREATE PROCEDURE command

MySQL: DROP PROCEDURE

This statement is used to drop a stored procedure or function. That is, the specified routine is removed from the server. You must have the ALTER ROUTINE privilege for the routine. (If the automatic_sp_privileges system variable is enabled, that privilege and EXECUTE are granted automatically to the routine creator when the routine is created and dropped from the creator when the routine is dropped

```
DROP {PROCEDURE | FUNCTION} [IF EXISTS] sp name
```

The IF EXISTS clause is a MySQL extension. It prevents an error from occurring if the procedure or function does not exist. A warning is produced that can be viewed with SHOW WARNINGS. Here is an example:

```
mysql> DROP PROCEDURE new_procedure;
Query OK, 0 rows affected (0.05 sec)
```

```
delimiter $$
create procedure whileloop()
begin
     declare x int;
declare str varchar(100);
     set x = 1;
     set str = '';
     while x \le 10
                         do
     set str = concat(str,x,',');
set x = x + 1;
     end while;
     select str;
end$$
delimiter;
delimiter $$
create procedure whileloop()
     begin
     declare x int;
declare str varchar(100);
     declare x
     set x = 1;
     set str = '' ;
     repeat
     set str = concat(str,x,',');
     set x = x + 1;
     until x >= 10
     end repeat;
     select str;
end$$
delimiter;
CREATE PROCEDURE p ()
BEGIN
 DECLARE counter INT DEFAULT 0;
 FOR SELECT a, b FROM t DO
   SET counter = counter + 1;
   END FOR;
 SELECT 'There are ', counter,' rows in t';
END
```