1. Create a procedure using a CURSOR that accepts a manager ID and displays the manager's name followed by the names of the employees who report to this manager.

```
mysql> source q1 new;
Database changed
Query OK, 0 rows affected (0.02 sec)
Query OK, 0 rows affected, 1 warning (0.02 sec)
| first_name |
| Shelley |
1 row in set (0.00 sec)
| mag_first_name |
| William |
1 row in set (0.01 sec)
| first_name |
| Shelley |
1 row in set (0.01 sec)
Query OK, 0 rows affected (0.01 sec)
```

2. Create a procedure with a cursor that provides a 10% salary increase to department managers.

## The screen shot below is the result Before the code run

```
mysql>
mysql> select distinct mgr.first_name, mgr.salary
    -> from employees emp join employees mgr
     -> on emp.manager_id = mgr.employee_id;
| first_name | salary
                24000.00
  Steven
                17000.00
  Neena
                17000.00
  Lex
  Alexander
                 9000.00
  Nancy
                12008.00
  Den
                11000.00
                 8000.00
  Matthew
                 8200.00
  Adam
                 7900.00
  Payam
  Shanta
                 6500.00
                 5800.00
  Kevin
  John
                 14000.00
                 13500.00
  Atom
  Alberto
                12000.00
  Gerald
                 11000.00
  Eleni
                10500.00
                13000.00
  Michael
  Shelley
                12008.00
18 rows in set (0.00 sec)
mysql>
File Edit View Selection Find Packages Help
            DELIMITER $
            drop procedure if exists myproc2;
    A ha
             on emp.manager id = mgr.employee id;
    • The
             update employees
 Terminal |
             end loop;
             close cursor1:
```

```
mysql> source q2;
Database changed
Query OK, 0 rows affected (0.01 sec)
Query OK, 0 rows affected, 1 warning (0.02 sec)
| mag_first_name | temp_salary |
| Steven | 26403 |
+----
1 row in set (0.01 sec)
| mag_first_name | temp_salary |
1 row in set (0.01 sec)
+-----
| mag_first_name | temp_salary |
| Lex | 18702 |
1 row in set (0.01 sec)
| mag_first_name | temp_salary |
| Alexander | 9902 |
1 row in set (0.01 sec)
```

```
yaret@yaret-virtualBox: ~/Desktop/t
 mag_first_name | temp_salary |
 Nancy
                          13211
1 row in set (0.03 sec)
 mag_first_name | temp_salary
 Den
                          12102
1 row in set (0.03 sec)
 mag_first_name | temp_salary |
 Matthew
                           8802
1 row in set (0.03 sec)
 mag_first_name | temp_salary |
 Terminal
                           9022
1 row in set (0.03 sec)
 mag_first_name | temp_salary
 Payam
                           8692
1 row in set (0.03 sec)
```

mag first name | temp salary

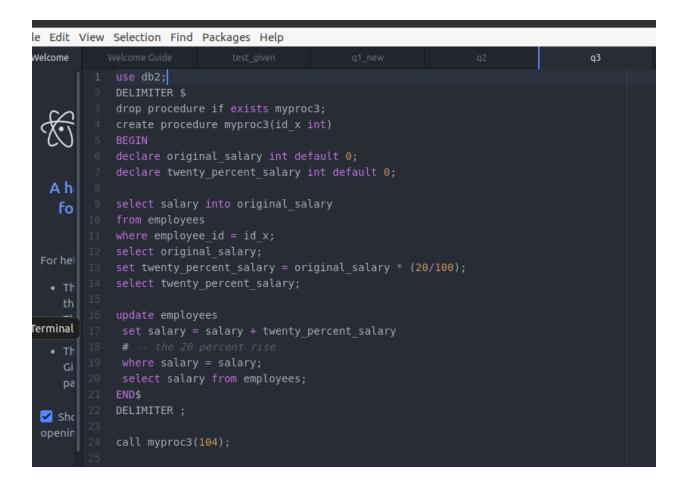
```
mag_first_name | temp_salary
  Shanta
                           7152
1 row in set (0.03 sec)
 mag_first_name | temp_salary
 Kevin
                           6382
1 row in set (0.03 sec)
 mag_first_name | temp_salary
 John
                          15402
1 row in set (0.03 sec)
 Terminal
 mag_first_name | temp_salary
 Karen
                          14852
1 row in set (0.03 sec)
 mag_first_name | temp_salary
 Alberto
                          13202
1 row in set (0.03 sec)
```

```
| Alberto
              13202
1 row in set (0.03 sec)
mag_first_name | temp_salary |
              12102
| Gerald
1 row in set (0.04 sec)
mag_first_name | temp_salary |
| Eleni
        | 11552 |
1 row in set (0.05 sec)
| mag_first_name | temp_salary |
| Michael
         14302
1 row in set (0.06 sec)
+ Atom ------
| mag_rirst_name | temp_salary |
| Shelley | 13211 |
1 row in set (0.06 sec)
Query OK, 0 rows affected (0.06 sec)
```

3. Create a procedure that determine and display the amount X needed to give all employees 20% of his/her salary.

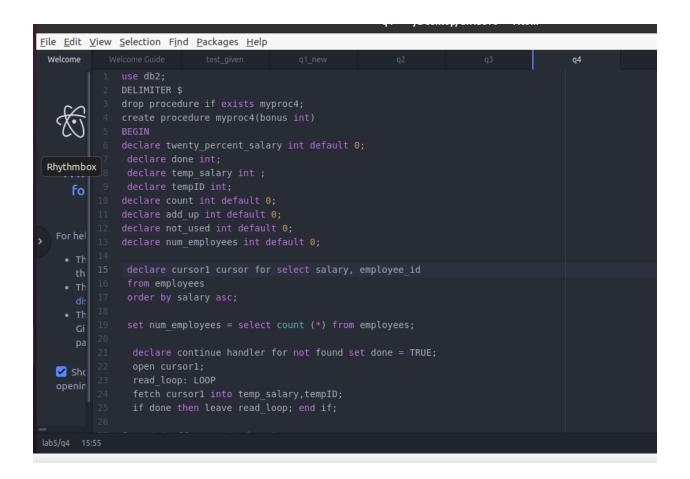
The screen shot below is the result Before the code run

		the result before the code run
Query OK, 107 rows affected (0.06 sec)		
musely select first over small one id select form and annual		
<pre>mysql&gt; select first_name, employee_id, salary from employees;</pre>		
1 6:		
first_name	employee_id	salary
l Ctover	100	1 20774 20 1
Steven	100	30771.30
Neena	101	23070.20
Lex	102	23070.20
Alexander	103	14270.20
Bruce	104	10368.00
David	105	9168.00
Valli	106	9168.00
Diana	107	8568.00
Nancy	108	18900.10
Daniel	109	14270.20
l Help	110	13390.20
Ismael	111	12068.00
Jose Manuel	112	12168.00
Luis	113	11268.00
Den	114	16470.20
Alexander	115	7468.00
Shelli	116	7268.00
Sigal	117	7168.00
Guy	118	6968.00
Karen	119	6868.00
Matthew	120	13170.20



```
yaret@yaret-VirtualBox: ~/Desktop/CINS570/lab5
mysql> source q3;
Database changed
Query OK, 0 rows affected (0.00 sec)
Query OK, 0 rows affected (0.01 sec)
 original_salary |
     10368
1 row in set (0.00 sec)
 twenty_percent_salary |
                2074
1 row in set (0.01 sec)
salary
 32845.30
 25144.20
 25144.20
 16344.20
 12442.00
 11242.00
 11242.00
 10642.00
 20974.10
```

4. Create a procedure. The company wants to award \$100,000 of profit by giving a bonus. The bonus is calculated as 20% of an employee's salary. Employees who earn lower salary values are given priority such that the \$100,000 profit is distributed starting with the lowest salary earners in ascending order until the \$100,000 is exhausted. If the \$100,000 is exhausted, display the quantity of employees who received a bonus (condition 1) otherwise, display the portion from the \$100,000 not used (condition 2). Run the procedure a second time with a different initial \$100,000 amount to test the other condition. Clearly label both test runs.



```
fetch cursor1 into temp salary,tempID;
               if done then leave read loop; end if;
             set twenty percent salary = temp salary * 0.2;
         30 set add up = add up + twenty_percent salary;
  A h
        31 set count = count + 1;
        32 if (add up < bonus and count < num employees)</pre>
    fo
             select twenty_percent_salary,tempID, count, add_up;
 For hel
              if (count = num employees)
             set not used = bonus - add up;

    Th

             select not used
Help di:
              where not used > 0;
               end loop;
               close cursor1;
 ✓ Shc
             DELIMITER ;
 openin
             #call myproc4(100000);
         49 #call myproc4(500000);
```

```
mysql> call myproc4(500000);
```