

1.

```
CREATE FUNCTION EJ1(CODIGO VARCHAR(20))
RETURNS VARCHAR(100) DETERMINISTIC
BEGIN
DECLARE MENSAJE VARCHAR(100) DEFAULT 'DESCONOCIDO';
DECLARE MEDIA INT;
DECLARE TOTAL INT;

SELECT ROUND(AVG(S.SALARY),2) INTO MEDIA FROM SALARIES S INNER JOIN
EMPLOYEES E
ON S.EMP_NO=E.EMP_NO INNER JOIN DEPT_EMP DE ON E.EMP_NO=DE.EMP_NO
INNER JOIN DEPARTMENTS D ON DE.DEPT_NO=D.DEPT_NO
WHERE D.DEPT_NO=CODIGO AND S.TO_DATE>CURDATE()
GROUP BY D.DEPT_NO;

SELECT ROUND(AVG(S.SALARY),2) INTO TOTAL FROM SALARIES S INNER JOIN
EMPLOYEES E
ON S.EMP_NO=E.EMP_NO INNER JOIN DEPT_EMP DE ON E.EMP_NO=DE.EMP_NO
INNER JOIN DEPARTMENTS D ON DE.DEPT_NO=D.DEPT_NO;

IF MEDIA>TOTAL THEN
SELECT CONCAT(MEDIA, ' € SUELDO SUPERIOR A LA MEDIA') INTO MENSAJE;
ELSE
SELECT CONCAT(MEDIA, ' € SUELDO INFERIOR A LA MEDIA') INTO MENSAJE;
END IF;

RETURN MENSAJE;

END

SELECT EJ1('D009');
```

```

1 CREATE FUNCTION EJ1(CODIGO VARCHAR(20))
2 RETURNS VARCHAR(100) DETERMINISTIC
3 BEGIN
4 DECLARE MENSAJE VARCHAR(100) DEFAULT 'DESCONOCIDO';
5 DECLARE MEDIA INT;
6 DECLARE TOTAL INT;
7
8 SELECT ROUND(AVG(S.SALARY),2) INTO MEDIA FROM SALARIES S INNER JOIN EMPLOYEES E
9 ON S.EMP_NO=E.EMP_NO INNER JOIN DEPT_EMP DE ON E.EMP_NO=DE.EMP_NO
10 INNER JOIN DEPARTMENTS D ON DE.DEPT_NO=D.DEPT_NO
11 WHERE D.DEPT_NO=CODIGO AND S.TO_DATE>CURDATE()
12 GROUP BY D.DEPT_NO;
13
14 SELECT ROUND(AVG(S.SALARY),2) INTO TOTAL FROM SALARIES S INNER JOIN EMPLOYEES E
15 ON S.EMP_NO=E.EMP_NO INNER JOIN DEPT_EMP DE ON E.EMP_NO=DE.EMP_NO
16 INNER JOIN DEPARTMENTS D ON DE.DEPT_NO=D.DEPT_NO;
17
18 IF MEDIA>TOTAL THEN
19 SELECT CONCAT(MEDIA, ' € SUELDO SUPERIOR A LA MEDIA') INTO MENSAJE;
20 ELSE

```

Resultado #1 (1r × 1c)

EJ1('D009')

66971 € SUELDO SUPERIOR A LA MEDIA

2.

```

CREATE PROCEDURE EJ2(IN codigo INT)
BEGIN

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DECLARE MENSAJE VARCHAR(100);
DECLARE EMPLEADOS INT DEFAULT 0;

```

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SELECT COUNT(*) INTO EMPLEADOS
FROM employees e INNER JOIN dept_manager dm ON e.emp_no=dm.emp_no
INNER JOIN departments d ON dm.dept_no=d.dept_no
INNER JOIN dept_emp de ON e.emp_no=de.emp_no
WHERE e.emp_no=codigo;

```

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IF EMPLEADOS=0 THEN
SET MENSAJE=('NO HA DIRIGIDO NUNCA UN DEPARTAMENTO');
ELSE

```

```

SELECT d.dept_name,EMPLEADOS
FROM employees e INNER JOIN dept_manager dm ON e.emp_no=dm.emp_no
INNER JOIN departments d ON dm.dept_no=d.dept_no
INNER JOIN dept_emp de ON e.emp_no=de.emp_no
WHERE e.emp_no=codigo
GROUP BY d.dept_name;
END IF;

```

```

END

```

```


CALL EJ2(110022);

```

```

2 BEGIN
3
4 DECLARE MENSAJE VARCHAR(100);
5 DECLARE EMPLEADOS INT DEFAULT 0;
6
7 SELECT COUNT(*) INTO EMPLEADOS
8 FROM employees e INNER JOIN dept_manager dm ON e.emp_no=dm.emp_no
9          INNER JOIN departments d ON dm.dept_no=d.dept_no
10         INNER JOIN dept_emp de ON e.emp_no=de.emp_no
11 WHERE e.emp_no=codigo;
12
13 IF EMPLEADOS=0 THEN
14     SET MENSAJE=('NO HA DIRIGIDO NUNCA UN DEPARTAMENTO');
15 ELSE
16     SELECT d.dept_name,EMPLEADOS
17     FROM employees e INNER JOIN dept_manager dm ON e.emp_no=dm.emp_no
18          INNER JOIN departments d ON dm.dept_no=d.dept_no
19         INNER JOIN dept_emp de ON e.emp_no=de.emp_no
20     WHERE e.emp_no=codigo
21     GROUP BY d.dept_name;
22 END IF;
23
24 END
25
26 CALL EJ2(110022);|

```

 departments (1r x 2c)

dept_name	EMPLEADOS
Marketing	1

3.

```

CREATE FUNCTION EJ3(codigo CHAR(4))
RETURNS VARCHAR(45) DETERMINISTIC
BEGIN

DECLARE SUELDO INT;

SELECT (SUM(s.salary)) INTO SUELDO
FROM departments d INNER JOIN dept_emp de ON d.dept_no=de.dept_no
INNER JOIN employees e ON de.emp_no=e.emp_no
INNER JOIN salaries s ON e.emp_no=s.emp_no
WHERE d.dept_no=codigo AND s.to_date>CURDATE()
GROUP BY d.dept_name;

RETURN SUELDO;
END

SELECT EJ3('d009') AS 'GASTO';

```

```

1 CREATE FUNCTION EJ3(codigo CHAR(4))
2 RETURNS VARCHAR(45) DETERMINISTIC
3 BEGIN
4
5     DECLARE SUELDO INT;
6
7     SELECT (SUM(s.salary)) INTO SUELDO
8     FROM departments d INNER JOIN dept_emp de ON d.dept_no=de.dept_no
9             INNER JOIN employees e ON de.emp_no=e.emp_no
10            INNER JOIN salaries s ON e.emp_no=s.emp_no
11     WHERE d.dept_no=codigo AND s.to_date>CURDATE()
12     GROUP BY d.dept_name;
13
14     RETURN SUELDO;
15 END
16
17 SELECT EJ3('d009') AS 'GASTO';|

```

Resultado #1 (1r x 1c)

GASTO

1270982348

4.

```

CREATE PROCEDURE EJ4(IN codigo INT)
BEGIN

DECLARE MANAGER INT DEFAULT 0;
DECLARE MENSAJE VARCHAR(400);

SELECT COUNT(*) INTO MANAGER
FROM employees e INNER JOIN dept_manager dm ON e.emp_no=dm.emp_no
INNER JOIN departments d ON dm.dept_no=d.dept_no
WHERE e.emp_no=codigo;

IF MANAGER=0 THEN
SET MENSAJE=('NO DIRIGE NINGÚN DEPARTAMENTO');

END

```

5.

```

CREATE PROCEDURE EJ55(IN fechal DATE, fecha2 DATE)
BEGIN

DECLARE NUM_CONTR INT;

SELECT COUNT(*) INTO NUM_CONTR
FROM titles t
WHERE t.from_date>=fechal AND t.to_date<=fecha2;

SELECT CONCAT(MONTHNAME(fechal), ' ', YEAR(fechal), ' : ', NUM_CONTR, ' ', 'contrataciones');

```

END

CALL EJ55('2016-01-12','2016-05-12');

```
1 CREATE PROCEDURE EJ55(IN fecha1 DATE, fecha2 DATE)
2 BEGIN
3
4     DECLARE NUM_CONTR INT;
5
6     SELECT COUNT(*) INTO NUM_CONTR
7     FROM titles t
8     WHERE t.from_date>=fecha1 AND t.to_date<=fecha2;
9
10    SELECT CONCAT(MONTHNAME(fecha1),' ',YEAR(fecha1),' : ',NUM_CONTR,' ','contrataciones');
11
12 END
13
14 CALL EJ55('2016-01-12','2016-05-12');
```

Resultado #1 (1r x 1c)

CONCAT(MONTHNAME(fecha1),' ',YEAR(fecha1),' : '...

January 2016:0 contrataciones