M02 – Bases de dades

RA4 – Modificacions(DML)

Tasca 4.1 DML

Utilitzant la BBDD 'companycsv' fes les següents consultes per línia de comandes. Adjunta captura, SQL en text i nº de registres resultant de cada consulta:

1. Afegeix el departament 50 a la taula DEPT. Inventa't el nom del departament i la ciutat.

   INSERT INTO dept (DEPTNO, DNAME, LOC) VALUES (50, "MANAGMENT", "SACRAMENTO");

```
MariaDB [companycsv]> INSERT INTO dept (DEPTNO, DNAME, LOC) VALUES (50, "MAN
AGMENT", "SACRAMENTO");
Query OK, 1 row affected, 1 warning (0.040 sec)

MariaDB [companycsv]> SELECT * FROM dept;
+--------+------------+----------+
| DEPTNO | DNAME      | LOC      |
+--------+------------+----------+
|     10 | ACCOUNTING | NEW YORK |
|     20 | RESEARCH   | DALLAS   |
|     30 | SALES      | CHICAGO  |
|     40 | OPERATIONS | BOSTON   |
|     50 | MANAGMENT  | SACRAMEN |
+--------+------------+----------+
5 rows in set (0.008 sec)

MariaDB [companycsv]>
```

2. Canvia el nom de la ciutat del departament 50.

   UPDATE dept SET LOC = "LOS ANGELES" WHERE DEPTNO = 50;

```
MariaDB [companycsv]> UPDATE dept SET LOC = "LOS ANGELES" WHERE DEPTNO = 50;

Query OK, 1 row affected, 1 warning (0.021 sec)
Rows matched: 1  Changed: 1  Warnings: 1

MariaDB [companycsv]> SELECT * FROM dept;
+--------+------------+----------+
| DEPTNO | DNAME      | LOC      |
+--------+------------+----------+
|     10 | ACCOUNTING | NEW YORK |
|     20 | RESEARCH   | DALLAS   |
|     30 | SALES      | CHICAGO  |
|     40 | OPERATIONS | BOSTON   |
|     50 | MANAGMENT  | LOS ANGE |
+--------+------------+----------+
5 rows in set (0.001 sec)

MariaDB [companycsv]>
```

3. Crea una sentència que afegeixi un nou departament . S'ha de fer de tal manera que no t'hagis de preocupar de quin és el següent departament que toca. Si l'últim departament és el 50, la consulta ha d'afegir el 60. Si l'últim departament afegit és el 120 hauria d'afegir el 130. **PISTA: Utilitza una variable**.

SET @nou_dept := (SELECT MAX(DEPTNO) + 10 FROM dept); INSERT INTO dept (DEPTNO, DNAME, LOC) VALUES (@nou_dept, "ANALYSING", "PORTLAND");

```
MariaDB [companycsv]> SET @nou_dept := (SELECT MAX(DEPTNO) + 10 FROM dept);
INSERT INTO dept (DEPTNO, DNAME, LOC) VALUES (@nou_dept, "ANALYSING", "PORTL
AND");
Query OK, 0 rows affected (0.019 sec)

Query OK, 1 row affected (0.018 sec)

MariaDB [companycsv]> SELECT * FROM dept;
+--------+------------+----------+
| DEPTNO | DNAME      | LOC      |
+--------+------------+----------+
|     10 | ACCOUNTING | NEW YORK |
|     20 | RESEARCH   | DALLAS   |
|     30 | SALES      | CHICAGO  |
|     40 | OPERATIONS | BOSTON   |
|     50 | MANAGMENT  | LOS ANGE |
|     60 | ANALYSING  | PORTLAND |
+--------+------------+----------+
6 rows in set (0.001 sec)

MariaDB [companycsv]>
```

4. Afegeix 3 nous empleats que estiguin al departament 30, 40 i 50 respectivament, que siguin MANAGER i que depenguin directament de KING. La data d'entrada HIREDATE ha de ser la data actual - automàtica (del dia que es fa la inserció). Inventa't els valors de la resta de camps (Atenció: Mira que tinguin coherència amb el tipus de dada del camp.). Inserta els valors amb una sola consulta però primer calcula i guarda amb una variable el EMPNO de KING que no sabem. També hauràs de calcular amb una variable el EMPNO dels nous MANAGERS per exemple a partir del EMPNO més alt que hi hagi.

SET @emp_king :=(SELECT EMPNO FROM emp WHERE ENAME = "KING");

SET @emp_king :=(SELECT EMPNO FROM emp WHERE ENAME = "KING");

INSERT INTO emp (EMPNO, ENAME, JOB, MGR, HIREDATE, SALARY, COMM, DEPTNO) VALUES (@max_emp + 1, 'MANAGER30', 'MANAGER', @emp_king, CURDATE(), 4900, NULL, 30), (@max_emp + 2, 'MANAGER40', 'MANAGER', @emp_king, CURDATE(), 4600, NULL, 40), (@max_emp + 3, 'MANAGER50', 'MANAGER', @emp_king, CURDATE(), 4260, NULL, 50);

```
MariaDB [companycsv]> SET @emp_king :=(SELECT EMPNO FROM emp WHERE ENAME = "
KING");
Query OK, 0 rows affected (0.002 sec)

MariaDB [companycsv]> SET @emp_king :=(SELECT EMPNO FROM emp WHERE ENAME = "
KING");
Query OK, 0 rows affected (0.001 sec)

MariaDB [companycsv]> INSERT INTO emp (EMPNO, ENAME, JOB, MGR, HIREDATE, SAL
ARY, COMM, DEPTNO) VALUES (@max_emp + 1, 'MANAGER30', 'MANAGER', @emp_king,
CURDATE(), 4900, NULL, 30), (@max_emp + 2, 'MANAGER40', 'MANAGER', @emp_king
, CURDATE(), 4600, NULL, 40), (@max_emp + 3, 'MANAGER50', 'MANAGER', @emp_ki
ng, CURDATE(), 4260, NULL, 50);
Query OK, 3 rows affected, 3 warnings (0.019 sec)
Records: 3  Duplicates: 0  Warnings: 3

MariaDB [companycsv]>
```

```
MariaDB [companycsv]> SELECT * FROM emp;
+-------+--------+-----------+------+------------+--------+------+--------+
| EMPNO | ENAME  | JOB       | MGR  | HIREDATE   | SALARY | COMM | DEPTNO |
+-------+--------+-----------+------+------------+--------+------+--------+
|  7839 | KING   | PRESIDENT | NULL | 2014-02-20 |   5000 | NULL |     10 |
|  7698 | BLAKE  | MANAGER   | 7839 | 2014-05-01 |   2850 | NULL |     30 |
|  7782 | CLARK  | MANAGER   | 7839 | 2014-06-09 |   2450 | NULL |     10 |
|  7566 | JONES  | MANAGER   | 7839 | 2014-04-02 |   2975 | NULL |     20 |
|  7654 | MARTIN | SALESMAN  | 7698 | 2014-09-28 |   1250 | 1400 |     30 |
|  7499 | ALLEN  | SALESMAN  | 7698 | 2014-02-20 |   1600 | 300  |     30 |
|  7844 | TURNER | SALESMAN  | 7698 | 2014-09-08 |   1500 | 0    |     30 |
|  7900 | JAMES  | CLERK     | 7698 | 2014-12-03 |    950 | NULL |     30 |
|  7521 | WARD   | SALESMAN  | 7698 | 2014-02-22 |   1250 | 500  |     30 |
|  7902 | FORD   | ANALYST   | 7566 | 2013-12-03 |   3000 | NULL |     20 |
|  7369 | SMITH  | CLERK     | 7902 | 2012-12-17 |    800 | NULL |     20 |
|  7788 | SCOTT  | ANALYST   | 7566 | 2015-12-09 |   3000 | NULL |     20 |
|  7876 | ADAMS  | CLERK     | 7788 | 2016-01-12 |   1100 | NULL |     20 |
|  7934 | MILLER | CLERK     | 7782 | 2015-01-23 |   1300 | NULL |     10 |
|  7935 | MANAGE | MANAGER   | 7839 | 2025-12-17 |   4900 | NULL |     30 |
|  7936 | MANAGE | MANAGER   | 7839 | 2025-12-17 |   4600 | NULL |     40 |
|  7937 | MANAGE | MANAGER   | 7839 | 2025-12-17 |   4260 | NULL |     50 |
+-------+--------+-----------+------+------------+--------+------+--------+
17 rows in set (0.001 sec)
```

5. Afegeix un nou empleat al departament que tingui menys empleats. (inventa't els valors dels camps menys el número de departament). Si hi ha més d'un departament amb el

mateix nombre mínim d'empleats afegeix-lo al departament que surti primer alfabèticament (primer la A).

SET @nou_id := (SELECT MAX(EMPNO) + 1 FROM emp);

SET @dept_min := (SELECT d.DEPTNO FROM dept d LEFT JOIN emp e ON d.DEPTNO = e.DEPTNO GROUP BY d.DEPTNO, d.DNAME ORDER BY COUNT(e.EMPNO) ASC, d.DNAME ASC LIMIT 1);

INSERT INTO emp (EMPNO, ENAME, JOB, MGR, HIREDATE, SALARY, COMM, DEPTNO) VALUES (@nou_id, 'RICARD', 'CLERK', 7840, CURDATE(), 1200, NULL, @dept_min);

```
MariaDB [companycsv]> SET @dept_min := (SELECT d.DEPTNO FROM dept d LEFT JOIN emp e ON d.DEPTNO = e.DEPTNO GROUP BY d.DEPTNO, d.DNAME ORDER BY COUNT(e.EMPNO
) ASC, d.DNAME ASC LIMIT 1);
Query OK, 0 rows affected (0.022 sec)

MariaDB [companycsv]> SET @nou_id := (SELECT MAX(EMPNO) + 1 FROM emp);
Query OK, 0 rows affected (0.001 sec)

MariaDB [companycsv]> INSERT INTO (EMPNO, ENAME, JOB, MGR, HIREDATE, SALARY, COMM, DEPTNO) VALUES (@nou_id, 'RICARD', 'CLERK', 7840, CURDATE(), 1200, NULL,
@dept_min);
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near
'(EMPNO, ENAME, JOB, MGR, HIREDATE, SALARY, COMM, DEPTNO) VALUES (@nou_id, 'RI...' at line 1
MariaDB [companycsv]> INSERT INTO (EMPNO, ENAME, JOB, MGR, HIREDATE, SALARY, COMM, DEPTNO) VALUES (@nou_id, 'RICARD', 'CLERK', 7840, CURDATE(), 1200, NULL,
@dept_min);
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near
'(EMPNO, ENAME, JOB, MGR, HIREDATE, SALARY, COMM, DEPTNO) VALUES (@nou_id, 'RI...' at line 1
MariaDB [companycsv]> INSERT INTO emp (EMPNO, ENAME, JOB, MGR, HIREDATE, SALARY, COMM, DEPTNO) VALUES (@nou_id, 'RICARD', 'CLERK', 7840, CURDATE(), 1200, NU
LL, @dept_min);
Query OK, 1 row affected (0.021 sec)

MariaDB [companycsv]> SELECT * FROM emp;
+-------+--------+-----------+------+------------+--------+------+--------+
| EMPNO | ENAME  | JOB       | MGR  | HIREDATE   | SALARY | COMM | DEPTNO |
+-------+--------+-----------+------+------------+--------+------+--------+
|  7839 | KING   | PRESIDENT | NULL | 2014-02-20 |   5000 | NULL |     10 |
|  7698 | BLAKE  | MANAGER   | 7839 | 2014-05-01 |   2850 | NULL |     30 |
|  7782 | CLARK  | MANAGER   | 7839 | 2014-06-09 |   2450 | NULL |     10 |
|  7566 | JONES  | MANAGER   | 7839 | 2014-04-02 |   2975 | NULL |     20 |
|  7654 | MARTIN | SALESMAN  | 7698 | 2014-09-28 |   1250 | 1400 |     30 |
|  7499 | ALLEN  | SALESMAN  | 7698 | 2014-02-20 |   1600 | 300  |     30 |
|  7844 | TURNER | SALESMAN  | 7698 | 2014-09-08 |   1500 | 0    |     30 |
|  7900 | JAMES  | CLERK     | 7698 | 2014-12-03 |    950 | NULL |     30 |
|  7521 | WARD   | SALESMAN  | 7698 | 2014-02-22 |   1250 | 500  |     30 |
|  7902 | FORD   | ANALYST   | 7566 | 2013-12-03 |   3000 | NULL |     20 |
|  7369 | SMITH  | CLERK     | 7902 | 2012-12-17 |    800 | NULL |     20 |
|  7788 | SCOTT  | ANALYST   | 7566 | 2015-12-09 |   3000 | NULL |     20 |
|  7876 | ADAMS  | CLERK     | 7788 | 2016-01-12 |   1100 | NULL |     20 |
|  7934 | MILLER | CLERK     | 7782 | 2015-01-23 |   1300 | NULL |     10 |
|  7935 | MANAGE | MANAGER   | 7839 | 2025-12-17 |   4900 | NULL |     30 |
|  7935 | MANAGE | MANAGER   | 7839 | 2025-12-17 |   4900 | NULL |     30 |
|  7937 | MANAGE | MANAGER   | 7839 | 2025-12-17 |   4600 | NULL |     40 |
|  7938 | MANAGE | MANAGER   | 7839 | 2025-12-17 |   4260 | NULL |     50 |
```

```
MariaDB [companycsv]> SELECT * FROM emp;
+-------+--------+-----------+------+------------+--------+------+--------+
| EMPNO | ENAME  | JOB       | MGR  | HIREDATE   | SALARY | COMM | DEPTNO |
+-------+--------+-----------+------+------------+--------+------+--------+
|  7839 | KING   | PRESIDENT | NULL | 2014-02-20 |   5000 | NULL |     10 |
|  7698 | BLAKE  | MANAGER   | 7839 | 2014-05-01 |   2850 | NULL |     30 |
|  7782 | CLARK  | MANAGER   | 7839 | 2014-06-09 |   2450 | NULL |     10 |
|  7566 | JONES  | MANAGER   | 7839 | 2014-04-02 |   2975 | NULL |     20 |
|  7654 | MARTIN | SALESMAN  | 7698 | 2014-09-28 |   1250 | 1400 |     30 |
|  7499 | ALLEN  | SALESMAN  | 7698 | 2014-02-20 |   1600 | 300  |     30 |
|  7844 | TURNER | SALESMAN  | 7698 | 2014-09-08 |   1500 | 0    |     30 |
|  7900 | JAMES  | CLERK     | 7698 | 2014-12-03 |    950 | NULL |     30 |
|  7521 | WARD   | SALESMAN  | 7698 | 2014-02-22 |   1250 | 500  |     30 |
|  7902 | FORD   | ANALYST   | 7566 | 2013-12-03 |   3000 | NULL |     20 |
|  7369 | SMITH  | CLERK     | 7902 | 2012-12-17 |    800 | NULL |     20 |
|  7788 | SCOTT  | ANALYST   | 7566 | 2015-12-09 |   3000 | NULL |     20 |
|  7876 | ADAMS  | CLERK     | 7788 | 2016-01-12 |   1100 | NULL |     20 |
|  7934 | MILLER | CLERK     | 7782 | 2015-01-23 |   1300 | NULL |     10 |
|  7935 | MANAGE | MANAGER   | 7839 | 2025-12-17 |   4900 | NULL |     30 |
|  7935 | MANAGE | MANAGER   | 7839 | 2025-12-17 |   4900 | NULL |     30 |
|  7937 | MANAGE | MANAGER   | 7839 | 2025-12-17 |   4600 | NULL |     40 |
|  7938 | MANAGE | MANAGER   | 7839 | 2025-12-17 |   4260 | NULL |     50 |
|  7939 | RICARD | CLERK     | 7840 | 2025-12-17 |   1200 | NULL |     60 |
+-------+--------+-----------+------+------------+--------+------+--------+
```

6. Executa la mateixa consulta un altra vegada (amb un altre nom d'empleat). Torna a mostrar el resultat. Té coherència ?

No te coherència si no tornar a recarcular les variables

```
MariaDB [companycsv]> INSERT INTO emp (EMPNO, ENAME, JOB, MGR, HIREDATE, SAL
ARY, COMM, DEPTNO) VALUES (@nou_id, 'STEVE', 'CLERK', 7841, CURDATE(), 2500,
 NULL, @dept_min);
Query OK, 1 row affected (0.021 sec)

MariaDB [companycsv]> SELECT * FROM emp;
+-------+--------+-----------+------+------------+--------+------+--------+
| EMPNO | ENAME  | JOB       | MGR  | HIREDATE   | SALARY | COMM | DEPTNO |
+-------+--------+-----------+------+------------+--------+------+--------+
|  7839 | KING   | PRESIDENT | NULL | 2014-02-20 |   5000 | NULL |     10 |
|  7698 | BLAKE  | MANAGER   | 7839 | 2014-05-01 |   2850 | NULL |     30 |
|  7782 | CLARK  | MANAGER   | 7839 | 2014-06-09 |   2450 | NULL |     10 |
|  7566 | JONES  | MANAGER   | 7839 | 2014-04-02 |   2975 | NULL |     20 |
|  7654 | MARTIN | SALESMAN  | 7698 | 2014-09-28 |   1250 | 1400 |     30 |
|  7499 | ALLEN  | SALESMAN  | 7698 | 2014-02-20 |   1600 | 300  |     30 |
|  7844 | TURNER | SALESMAN  | 7698 | 2014-09-08 |   1500 | 0    |     30 |
|  7900 | JAMES  | CLERK     | 7698 | 2014-12-03 |    950 | NULL |     30 |
|  7521 | WARD   | SALESMAN  | 7698 | 2014-02-22 |   1250 | 500  |     30 |
|  7902 | FORD   | ANALYST   | 7566 | 2013-12-03 |   3000 | NULL |     20 |
|  7369 | SMITH  | CLERK     | 7902 | 2012-12-17 |    800 | NULL |     20 |
|  7788 | SCOTT  | ANALYST   | 7566 | 2015-12-09 |   3000 | NULL |     20 |
|  7876 | ADAMS  | CLERK     | 7788 | 2016-01-12 |   1100 | NULL |     20 |
|  7934 | MILLER | CLERK     | 7782 | 2015-01-23 |   1300 | NULL |     10 |
|  7935 | MANAGE | MANAGER   | 7839 | 2025-12-17 |   4900 | NULL |     30 |
|  7935 | MANAGE | MANAGER   | 7839 | 2025-12-17 |   4900 | NULL |     30 |
|  7937 | MANAGE | MANAGER   | 7839 | 2025-12-17 |   4600 | NULL |     40 |
|  7938 | MANAGE | MANAGER   | 7839 | 2025-12-17 |   4260 | NULL |     50 |
|  7939 | RICARD | CLERK     | 7840 | 2025-12-17 |   1200 | NULL |     60 |
|  7939 | STEVE  | CLERK     | 7841 | 2025-12-17 |   2500 | NULL |     60 |
+-------+--------+-----------+------+------------+--------+------+--------+
20 rows in set (0.002 sec)
```

7. En la taula EMP substitueix la comissió dels empleats que la tinguin = 0 per NULL. (T'hauria d'afectar a un sol registre)

UPDATE emp SET COMM = NULL WHERE COMM = 0;

```
MariaDB [companycsv]> UPDATE emp SET COMM = NULL WHERE COMM = 0;
Query OK, 0 rows affected (0.001 sec)
Rows matched: 0  Changed: 0  Warnings: 0

MariaDB [companycsv]> SELECT ENAME, EMPNO FROM emp WHERE COMM = 0;
Empty set (0.001 sec)

MariaDB [companycsv]>
```

8. Crea una nova taula MANAGERS (Fes-ho a través del PHPmyAdmin. A la nova taula no hi ha d'haver el camp JOB, ni tampoc cap registre) i utilitzant una consulta copia tots els Managers de la taula EMP a la taula MANAGERS.

```
MariaDB [companycsv]> INSERT INTO managers (EMPNO, ENAME, MGR, HIREDATE, SALARY, COMM, DEPTNO) SELECT EMPNO, ENAME, MGR, HIREDATE, SALARY, COMM, DEPTNO FROM
 emp WHERE JOB = 'MANAGER';
Query OK, 7 rows affected (0.021 sec)
Records: 7  Duplicates: 0  Warnings: 0

MariaDB [companycsv]> DESC managers;
+----------+-------------+------+-----+---------+-------+
| Field    | Type        | Null | Key | Default | Extra |
+----------+-------------+------+-----+---------+-------+
| EMPNO    | int(4)      | YES  |     | NULL    |       |
| ENAME    | varchar(6)  | YES  |     | NULL    |       |
| MGR      | varchar(4)  | YES  |     | NULL    |       |
| HIREDATE | varchar(10) | YES  |     | NULL    |       |
| SALARY   | int(4)      | YES  |     | NULL    |       |
| COMM     | varchar(4)  | YES  |     | NULL    |       |
| DEPTNO   | int(2)      | YES  |     | NULL    |       |
+----------+-------------+------+-----+---------+-------+
7 rows in set (0.052 sec)

MariaDB [companycsv]> SELECT * FROM managers;
+-------+--------+------+------------+--------+------+--------+
| EMPNO | ENAME  | MGR  | HIREDATE   | SALARY | COMM | DEPTNO |
+-------+--------+------+------------+--------+------+--------+
|  7698 | BLAKE  | 7839 | 2014-05-01 |   2850 | NULL |     30 |
|  7782 | CLARK  | 7839 | 2014-06-09 |   2450 | NULL |     10 |
|  7566 | JONES  | 7839 | 2014-04-02 |   2975 | NULL |     20 |
|  7935 | MANAGE | 7839 | 2025-12-17 |   4900 | NULL |     30 |
|  7935 | MANAGE | 7839 | 2025-12-17 |   4900 | NULL |     30 |
|  7937 | MANAGE | 7839 | 2025-12-17 |   4600 | NULL |     40 |
|  7938 | MANAGE | 7839 | 2025-12-17 |   4260 | NULL |     50 |
+-------+--------+------+------------+--------+------+--------+
7 rows in set (0.001 sec)

MariaDB [companycsv]>
```

9. Modifica de la taula MANAGERS el salari de tots els MANAGERS dels departaments més petits que el 40 i els augmentes el sou un 10%.

UPDATE managers SET SALARY = SALARY *1.10 WHERE DEPTNO < 40;

```
MariaDB [companycsv]> UPDATE managers SET SALARY = SALARY *1.10 WHERE DEPTNO
 < 40;
Query OK, 5 rows affected (0.015 sec)
Rows matched: 5  Changed: 5  Warnings: 0

MariaDB [companycsv]> SELECT * FROM emp;
+-------+--------+-----------+------+------------+--------+------+--------+
| EMPNO | ENAME  | JOB       | MGR  | HIREDATE   | SALARY | COMM | DEPTNO |
+-------+--------+-----------+------+------------+--------+------+--------+
|  7839 | KING   | PRESIDENT | NULL | 2014-02-20 |   5000 | NULL |     10 |
|  7698 | BLAKE  | MANAGER   | 7839 | 2014-05-01 |   2850 | NULL |     30 |
|  7782 | CLARK  | MANAGER   | 7839 | 2014-06-09 |   2450 | NULL |     10 |
|  7566 | JONES  | MANAGER   | 7839 | 2014-04-02 |   2975 | NULL |     20 |
|  7654 | MARTIN | SALESMAN  | 7698 | 2014-09-28 |   1250 | 1400 |     30 |
|  7499 | ALLEN  | SALESMAN  | 7698 | 2014-02-20 |   1600 | 300  |     30 |
|  7844 | TURNER | SALESMAN  | 7698 | 2014-09-08 |   1500 | NULL |     30 |
|  7900 | JAMES  | CLERK     | 7698 | 2014-12-03 |    950 | NULL |     30 |
|  7521 | WARD   | SALESMAN  | 7698 | 2014-02-22 |   1250 | 500  |     30 |
|  7902 | FORD   | ANALYST   | 7566 | 2013-12-03 |   3000 | NULL |     20 |
|  7369 | SMITH  | CLERK     | 7902 | 2012-12-17 |    800 | NULL |     20 |
|  7788 | SCOTT  | ANALYST   | 7566 | 2015-12-09 |   3000 | NULL |     20 |
|  7876 | ADAMS  | CLERK     | 7788 | 2016-01-12 |   1100 | NULL |     20 |
|  7934 | MILLER | CLERK     | 7782 | 2015-01-23 |   1300 | NULL |     10 |
|  7935 | MANAGE | MANAGER   | 7839 | 2025-12-17 |   4900 | NULL |     30 |
|  7935 | MANAGE | MANAGER   | 7839 | 2025-12-17 |   4900 | NULL |     30 |
|  7937 | MANAGE | MANAGER   | 7839 | 2025-12-17 |   4600 | NULL |     40 |
|  7938 | MANAGE | MANAGER   | 7839 | 2025-12-17 |   4260 | NULL |     50 |
|  7939 | RICARD | CLERK     | 7840 | 2025-12-17 |   1200 | NULL |     60 |
|  7939 | STEVE  | CLERK     | 7841 | 2025-12-17 |   2500 | NULL |     60 |
+-------+--------+-----------+------+------------+--------+------+--------+
20 rows in set (0.022 sec)
```

10. Supòsit: Ens hem adonat que al departament 30 tenim 2 managers i només n'hi hauria d'haver 1, per tant l'últim manager que hem afegit al departament 30 (pista: busca primer quin és l'últim hiredate) l'hem d'eliminar de la taula MANAGERS i hem de canviar la seva categoria i salari de la taula EMP. (Tu mateix posa els valors que et sembli, i que siguin coherents). Fes-ho amb 2 consultes, una per eliminar de la taula MANAGERS i una altra per modificar de la taula EMP. (2 punts)

```
MariaDB [companycsv]> DELETE FROM managers WHERE EMPNO = (SELECT EMPNO FROM emp WHERE DEPTNO = 30 AND JOB = 'MANAGER' ORDER BY HIREDATE DESC LIMIT 1);
Query OK, 2 rows affected (0.023 sec)
```

```
MariaDB [companycsv]> UPDATE emp SET JOB = 'CLERK', SALARY = 1500 WHERE EMPNO = (SELECT EMPNO FROM (SELECT EMPNO FROM emp WHERE DEPTNO = 30 AND JOB = 'MANAG
ER' ORDER BY HIREDATE DESC LIMIT 1) AS sub);
Query OK, 2 rows affected (0.022 sec)
Rows matched: 2  Changed: 2  Warnings: 0
```

11. Ara volem promocionar l'empleat WARD del departament 30 i el volem passar a MANAGER d'un nou departament (serà el departament 60, però ha de sortir automàtic). WARD tindrà el mateix salari que el manager que cobra menys. Hauràs de fer 3 consultes: Primer crear el departament 60 que no existeix, després modifica la taula EMP per canviar-li el departament (utilitza la variable anterior), i la categoria, i finalment afegeix l'empleat WARD a la taula MANAGERS (a partir de les dades que hi ha a la taula EMP, i que ja has canviat).

```
MariaDB [companycsv]> SET @nou_dept := (SELECT MAX(DEPTNO) + 10 FROM dept);
Query OK, 0 rows affected (0.005 sec)

MariaDB [companycsv]> INSERT INTO dept (DEPTNO, DNAME, LOC) VALUES (@nou_dep
t, 'MANAGER', 'ST FRANCISCO');
Query OK, 1 row affected, 1 warning (0.011 sec)

MariaDB [companycsv]> SELECT * FROM dept;
+--------+------------+----------+
| DEPTNO | DNAME      | LOC      |
+--------+------------+----------+
|     10 | ACCOUNTING | NEW YORK |
|     20 | RESEARCH   | DALLAS   |
|     30 | SALES      | CHICAGO  |
|     40 | OPERATIONS | BOSTON   |
|     50 | MANAGMENT  | LOC ANGE |
|     60 | ANALYSING  | PORTLAND |
|     70 | MANAGER    | ST FRANC |
+--------+------------+----------+
7 rows in set (0.001 sec)
```

```
ear @nou_dept, @sal_min WHERE ENAME = 'WARD' at line 1
MariaDB [companycsv]> UPDATE emp SET JOB = 'MANAGER', DEPTNO = @nou_dept, SA
LARY = @sal_min WHERE ENAME = 'WARD';
Query OK, 1 row affected (0.002 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

```
MariaDB [companycsv]> SET @sal_min := (SELECT MIN(SALARY) FROM emp WHERE JOB
 = 'MANAGER');
Query OK, 0 rows affected (0.001 sec)
```

12. **Extra:** Modifica la data d'entrada (HIREDATE) de tots els empleats de forma que si cau en cap de setmana la passi al següent dilluns. (1 punt)

   UPDATE emp SET HIREDATE = CASE WHEN DAYOFWEEK(HIREDATE) = 7 THEN DATE_ADD(HIREDATE, INTERVAL 2 DAY) WHEN DAYOFWEEK(HIREDATE) = 1 THEN DATE_ADD(HIREDATE, INTERVAL 1 DAY) ELSE HIREDATE END;

```
MariaDB [companycsv]> UPDATE emp SET HIREDATE = CASE WHEN DAYOFWEEK(HIREDATE
) = 7 THEN DATE_ADD(HIREDATE, INTERVAL 2 DAY) WHEN DAYOFWEEK(HIREDATE) = 1 T
HEN DATE_ADD(HIREDATE, INTERVAL 1 DAY) ELSE HIREDATE END;
Query OK, 2 rows affected (0.017 sec)
Rows matched: 20  Changed: 2  Warnings: 0

MariaDB [companycsv]> SELECT ENAME, HIREDATE, DAYOFWEEK(HIREDATE) FROM emp;
+--------+------------+---------------------+
| ENAME  | HIREDATE   | DAYOFWEEK(HIREDATE) |
+--------+------------+---------------------+
| KING   | 2014-02-20 |                   5 |
| BLAKE  | 2014-05-01 |                   5 |
| CLARK  | 2014-06-09 |                   2 |
| JONES  | 2014-04-02 |                   4 |
| MARTIN | 2014-09-29 |                   2 |
| ALLEN  | 2014-02-20 |                   5 |
| TURNER | 2014-09-08 |                   2 |
| JAMES  | 2014-12-03 |                   4 |
| WARD   | 2014-02-24 |                   2 |
| FORD   | 2013-12-03 |                   3 |
| SMITH  | 2012-12-17 |                   2 |
| SCOTT  | 2015-12-09 |                   4 |
| ADAMS  | 2016-01-12 |                   3 |
| MILLER | 2015-01-23 |                   6 |
| MANAGE | 2025-12-17 |                   4 |
| MANAGE | 2025-12-17 |                   4 |
| MANAGE | 2025-12-17 |                   4 |
| MANAGE | 2025-12-17 |                   4 |
| RICARD | 2025-12-17 |                   4 |
| STEVE  | 2025-12-17 |                   4 |
+--------+------------+---------------------+
20 rows in set (0.001 sec)

MariaDB [companycsv]>
```