



AGREGACIÓ

BBDD

```
select deptno, min(salary) as "Salari Minim", max(salary) as "Salary maxim" from emp
group by deptno;
```

```
MariaDB [companycsv]> select deptno, min(salary) as "Salari Minim", max(salary) as "Salari Maxim" from emp
-> group by deptno;
+-----+-----+
| deptno | Salari Minim | Salari Maxim |
+-----+-----+
|    10  |      1300  |      5000  |
|    20  |       800  |      3000  |
|    30  |       950  |      2850  |
+-----+
3 rows in set (0.001 sec)

MariaDB [companycsv]>
```

SELECT

```
MAX(salary) AS 'Salario Maximo',
MIN(salary) AS 'Salario Minimo',
SUM(salary) AS 'Salario Total',
AVG(salary) AS 'Mitjana Salari',
(MAX(salary) - MIN(salary)) AS 'Diferencia'
FROM emp;
```

```
MariaDB [companycsv]> select max(salary) as "Salari Maxim", min(salary) as "Salari Minim", sum(salary) as "Salari Total",
-> avg(salary) as "Mitjana Salari", (max(salary) - min(salary)) as "Diferencia" from emp;
+-----+-----+-----+-----+
| Salari Maxim | Salari Minim | Salari Total | Mitjana Salari | Diferencia |
+-----+-----+-----+-----+
|      5000  |       800  |     29025  |   2073.2143  |      4200  |
+-----+
1 row in set (0.001 sec)
```

```
select concat ('Tots els empleats van començar a treballar entre ',
date_format(min(hiredate), '%d-%m-%Y'), ' i ', date_format(max(hiredate), '%d-%m-%Y'))
from emp;
```

```
MariaDB [companycsv]> select concat ('Tots els empleats van començar a treballar entre ', date_format(min(hiredate), '%d-%m-%Y'), ' i ', date_format(max(hiredate), '%d-%m-%Y')) from emp;
+-----+
| concat ('Tots els empleats van començar a treballar entre ', date_format(min(hiredate), '%d-%m-%Y'), ' i ', date_format(max(hiredate), '%d-%m-%Y')) |
+-----+
| Tots els empleats van començar a treballar entre 17-12-2012 i 12-01-2016 |
+-----+
1 row in set (0.001 sec)

MariaDB [companycsv]>
```

```
select count(ename) as "Total empleats amb comissio", CONCAT(FORMAT(AVG(comm),
2), " Euros") AS "Mitjana comissions"
-> from emp
-> where comm is not null;
```

```
MariaDB [companycsv]> select count(ename) as "Total empleats amb comissio",
CONCAT(FORMAT(AVG(comm), 2), " Euros") AS "Mitjana comissions"
-> from emp
-> where comm is not null;
+-----+-----+
| Total empleats amb comissio | Mitjana comissions |
+-----+-----+
| 4 | 550.00 Euros |
+-----+-----+
1 row in set (0.000 sec)
```

```
select count(case when comm is not null then 1 end) as "Total comisso",
-> count(case when comm is null then 1 end) as "Sense commisso" from emp;
```

```
MariaDB [companycsv]> select count(case when comm is not null then 1 end) as "Total comisso",
-> count(case when comm is null then 1 end) as "Sense commisso" from emp;
+-----+-----+
| Total comisso | Sense commisso |
+-----+-----+
| 4 | 10 |
+-----+-----+
1 row in set (0.001 sec)

MariaDB [companycsv]> |
```

```
select count(case when salary > 1000 then 1 end) as "Empleats que cobran > 1000",
max(salary) as "SalariMaxim", deptno from emp
-> where job not in ('manager', 'president')
-> group by deptno
-> order by SalariMaxim desc;
```

```
MariaDB [companycsv]> select count(case when salary > 1000 then 1 end) as "Empleats que cobran > 1000", max(salary) as "SalariMaxim", deptno from emp
-> where job not in ('manager', 'president')
-> group by deptno
-> order by SalariMaxim desc;
+-----+-----+-----+
| Empleats que cobran > 1000 | SalariMaxim | deptno |
+-----+-----+-----+
| 3 | 3000 | 20 |
| 4 | 1600 | 30 |
| 1 | 1300 | 10 |
+-----+-----+-----+
3 rows in set (0.001 sec)
```

```

select count(case when salary > 1000 then 1 end) as "Empleats que cobran > 1000",
max(salary) as "SalariMaxim", job, deptno from emp
-> where job not in ('manager', 'president')
-> group by deptno, job
-> order by SalariMaxim desc;

```

```

MariaDB [companycsv]> select count(case when salary > 1000 then 1 end) as "Empleats que cobran > 1000", max(salary) as "SalariMaxim", job, deptno from emp
-> where job not in ('manager', 'president')
-> group by deptno, job
-> order by SalariMaxim desc;
+-----+-----+-----+-----+
| Empleats que cobran > 1000 | SalariMaxim | job       | deptno   |
+-----+-----+-----+-----+
|          2 |      3000 | ANALYST    |      20   |
|          4 |      1600 | SALESMAN   |      30   |
|          1 |      1300 | CLERK      |      10   |
|          1 |      1100 | CLERK      |      20   |
|          0 |      950  | CLERK      |      30   |
+-----+-----+-----+-----+
5 rows in set (0.001 sec)

MariaDB [companycsv]>

```

```

select deptno as "Num departament", sum(salary) as "Suma de salari" from emp
-> group by deptno
-> order by salary desc
-> limit 2;

```

```

MariaDB [companycsv]> select deptno as "Num departament", sum(salary) as "Suma de salari" from emp
-> group by deptno
-> order by salary desc
-> limit 2;
+-----+-----+
| Num departament | Suma de salari |
+-----+-----+
|          10 |        8750 |
|          20 |      10875 |
+-----+-----+
2 rows in set (0.001 sec)

```

```
select deptno as "Num departament", avg(salary) as "MitjanaSalari" from emp  
-> group by deptno  
-> having avg(salary) < 2000  
-> order by salary desc;
```

```
MariaDB [companycsv]> select deptno as "Num departament", avg(salary) as "MitjanaSalari" from emp  
    -> group by deptno  
    -> having avg(salary) < 2000  
    -> order by salary desc;  
+-----+-----+  
| Num departament | MitjanaSalari |  
+-----+-----+  
|          30 |      1566.6667 |  
+-----+-----+  
1 row in set (0.001 sec)  
  
MariaDB [companycsv]>
```

```
select job as "Lloc de treball", round(avg(salary)) as "Mitjana Salari" from emp  
-> where not job = 'president'  
-> group by job  
-> having avg(salary) > 1200;
```

```
MariaDB [companycsv]> select job as "Lloc de treball", round(avg(salary)) as  
    "Mitjana Salari" from emp  
    -> where not job = 'president'  
    -> group by job  
    -> having avg(salary) > 1200;  
+-----+-----+  
| Lloc de treball | Mitjana Salari |  
+-----+-----+  
| ANALYST | 3000 |  
| MANAGER | 2758 |  
| SALESMAN | 1400 |  
+-----+-----+  
3 rows in set (0.001 sec)
```

```
select mgr as "Manager", min(salary) as "Salari Minim" from emp
-> where mgr is not null
-> group by mgr
-> having min(salary) > 1000
-> order by min(salary) desc;
```

```
MariaDB [companycsv]> select mgr as "Manager", min(salary) as "Salari Minim" from emp
  -> where mgr is not null
  -> group by mgr
  -> having min(salary) > 1000
  -> order by min(salary) desc;
+-----+
| Manager | Salari Minim |
+-----+
| 7566   |      3000 |
| 7839   |      2450 |
| 7782   |      1300 |
| 7788   |      1100 |
+-----+
4 rows in set (0.001 sec)

MariaDB [companycsv]>
```

```
select deptno as "Departaments", weekday(hiredate) as "Dia setmana", count(*) as "Total Empleats" from emp
-> where deptno in ('10', '30') and weekday(hiredate) not in ('0', '5', '6')
-> group by deptno, weekday(hiredate);
```

```
MariaDB [companycsv]> select deptno as "Departaments", weekday(hiredate) as "Dia setmana",
  count(*) as "Total Empleats" from emp
  -> where deptno in ('10', '30') and weekday(hiredate) not in ('0', '5', '6')
  -> group by deptno, weekday(hiredate);
+-----+
| Departaments | Dia setmana | Total Empleats |
+-----+
|    10 |          3 |           1 |
|    10 |          4 |           1 |
|    30 |          2 |           1 |
|    30 |          3 |           2 |
+-----+
4 rows in set (0.001 sec)

MariaDB [companycsv]>
```

```

select count(ename) as "Total empleats", count(case when year(hiredate) = 2014 then 1
end) as "2014", count(case when year(hiredate) = 2015 then 1 end) as "2015", count(case
when year(hiredate) = 2016 then 1 end) as "2016", count(case when year(hiredate) = 2017
then 1 end) as "2017" from emp
-> where comm is null
-> ;

```

```

MariaDB [companycsv]> select count(ename) as "Total empleats", count(case when year(hiredate)
= 2014 then 1 end) as "2014", count(case when year(hiredate) = 2015 then 1 end) as "2015
", count(case when year(hiredate) = 2016 then 1 end) as "2016", count(case when year(hireda
te) = 2017 then 1 end) as "2017" from emp
-> where comm is null
-> ;
+-----+-----+-----+-----+
| Total empleats | 2014 | 2015 | 2016 | 2017 |
+-----+-----+-----+-----+
|          10 |     5 |     2 |     1 |     0 |
+-----+-----+-----+-----+
1 row in set (0.001 sec)

MariaDB [companycsv]>

```

```

select job, sum(case when deptno = 10 then salary else 0 end) as "Dept 10", sum(case
when deptno = 20 then salary else 0 end) as "Dept 20", sum(case when deptno = 30 then
salary else 0 end) as "Dept 30", sum(salary) as "Total" from emp
-> where job <> 'president'
-> group by job;

```

```

MariaDB [companycsv]> select job, sum(case when deptno = 10 then salary else 0 end) as "Dep
t 10", sum(case when deptno = 20 then salary else 0 end) as "Dept 20", sum(case when deptno
= 30 then salary else 0 end) as "Dept 30", sum(salary) as "Total" from emp
-> where job <> 'president'
-> group by job;
+-----+-----+-----+-----+-----+
| job    | Dept 10 | Dept 20 | Dept 30 | Total  |
+-----+-----+-----+-----+-----+
| ANALYST |      0 |   6000 |      0 |  6000 |
| CLERK   |  1300 |  1900 |   950 | 4150  |
| MANAGER |  2450 | 2975  | 2850  | 8275  |
| SALESMAN|      0 |      0 |  5600 |  5600 |
+-----+-----+-----+-----+-----+
4 rows in set (0.001 sec)

MariaDB [companycsv]>

```