



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)
```

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 comissio",
-> count(case when comm is null then 1 end) as "Sense comissio" from emp;
```

```
MariaDB [companycsv]> select count(case when comm is not null then 1 end) as "Total comissio",
-> count(case when comm is null then 1 end) as "Sense comissio" from emp;
```

Total comissio	Sense comissio
4	10

```
1 row in set (0.001 sec)

MariaDB [companycsv]> |
```

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

Empleats que cobren > 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 "E
mpleats que cobran > 1000", max(salary) as "SalariMaxim", job, deptno from e
mp
-> 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 "Su
ma 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 "MitajanaSalari" from emp
-> group by deptno
-> having avg(salary) < 2000
-> order by salary desc;
```

```
MariaDB [companycsv]> select deptno as "Num departament", avg(salary) as "Mi
tajanaSalari" from emp
-> group by deptno
-> having avg(salary) < 2000
-> order by salary desc;
+-----+-----+
| Num departament | MitajanaSalari |
+-----+-----+
| 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(hiredate) = 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 "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;

```

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]>

```