

## Queries applying:

### GROUP BY, ORDER BY AND INNER JOIN

-- a) top 10 employee names & cumulative salary. Hint: join on salaries, employees table—

```
select e.first_name, e.emp_no, sum(s.salary)
```

```
from employees e
```

```
    INNER JOIN salaries s
```

```
    ON e.emp_no=s.emp_no
```

```
group by emp_no
```

```
order by 3 desc
```

```
limit 10;
```

```
--
```

```
6  -- a) top 10 employee names & cumulative salary. Hint: join on salaries, employees table--
7  • select e.first_name, e.emp_no, sum(s.salary)
8      from employees e
9          INNER JOIN salaries s
10         ON e.emp_no=s.emp_no
11     group by emp_no
12     order by 3 desc
13     limit 10;
14  --
15  -- b) top 10 department names by #current employees. Hint: join on dept_emp departments table with WHERE clause to_date > now()
16  • select d.dept_name, count(e.emp_no)
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: [F1](#)

	first_name	emp_no	sum(s.salary)
▶	Tsutomu	109334	2553036
	Tokuyasu	43624	2492873
	Lansing	66793	2383923
	Weicheng	237542	2381119
	Xiahua	47978	2374024
	Willard	80823	2368170
	Aral	68086	2305351
	Chirstian	102962	2279289
	Arnd	246120	2271104
	Odoardo	96957	2270899

-- b) top 10 department names by #current employees. Hint: join on dept\_emp departments table with WHERE clause to\_date > now()

```
select d.dept_name, count(e.emp_no)
from employees e
      INNER JOIN dept_emp z
      ON e.emp_no=z.emp_no
      INNER JOIN departments d
      ON z.dept_no=d.dept_no
WHERE YEAR(z.to_date)>YEAR(Now())
group by d.dept_no
order by 2 desc
limit 10;
--
```

```
15  -- b) top 10 department names by #current employees. Hint: join on dept_emp departments table with WHERE clause to_date > now()
16  • select d.dept_name, count(e.emp_no)
17  from employees e
18      INNER JOIN dept_emp z
19      ON e.emp_no=z.emp_no
20      INNER JOIN departments d
21      ON z.dept_no=d.dept_no
22  WHERE YEAR(z.to_date)>YEAR(Now())
23  group by d.dept_no
24  order by 2 desc
25  limit 10;
```

dept_name	count(e.emp_no)
Development	61386
Production	53304
Sales	37701
Customer Service	17569
Research	15441
Marketing	14842
Quality Management	14546
Human Resources	12898
Finance	12437

-- c) top 10 department names by most (current and not current) employees. Hint: join on dept\_emp departments table

```
select d.dept_name, count(e.emp_no)
from employees e
      INNER JOIN dept_emp z
        ON e.emp_no=z.emp_no
      INNER JOIN departments d
        ON z.dept_no=d.dept_no
group by d.dept_name
order by 2 desc
limit 10;
--
```

```
27 -- c) top 10 department names by most (current and not current) employees. Hint: join on dept_emp departments table
28 • select d.dept_name, count(e.emp_no)
29   from employees e
30        INNER JOIN dept_emp z
31          ON e.emp_no=z.emp_no
32        INNER JOIN departments d
33          ON z.dept_no=d.dept_no
34   group by d.dept_name
35   order by 2 desc
36   limit 10;
37 --
```

dept_name	count(e.emp_no)
Development	85707
Production	73485
Sales	52245
Customer Service	23580
Research	21126
Marketing	20211
Quality Management	20117
Human Resources	17786
Finance	17346

-- d) top 10 immediate manager names by #current employees. Hint: join on dept\_managers, dept\_emp, employees table with WHERE clause to\_date > now()

use dbda2;

select m.emp\_no,m.dept\_no, concat(e.last\_name,',', e.first\_name) as "Manager Name",  
count(e.emp\_no) as "Current employee"

from dept\_emp de

inner join dept\_manager m

on de.dept\_no = m.dept\_no

and m.to\_date>now()

inner join employees e on de.emp\_no = e.emp\_no where de.to\_date>now()

group by m.emp\_no,m.dept\_no

order by 4 ,3 desc limit 10;

--

```
38 -- d) top 10 immediate manager names by #current employees. Hint: join on dept_managers, dept_emp, employees table with WHERE clause to_date > now()
39 • use dbda2;
40 • select m.emp_no,m.dept_no, concat(e.last_name,',', e.first_name) as "Manager Name", count(e.emp_no) as "Current employee"
41 from dept_emp de
42     inner join dept_manager m
43         on de.dept_no = m.dept_no
44         and m.to_date>now()
45     inner join employees e on de.emp_no = e.emp_no where de.to_date>now()
46 group by m.emp_no,m.dept_no
47 order by 3 ,4 desc limit 10;
48 --
```

emp_no	dept_no	Manager Name	Current employee
110420	d004	Bamford,Parto	53304
110039	d001	Bouloucos,Cristinel	14842
110567	d005	Facello,Georgi	61386
111939	d009	Lortz,Huan	17569
110228	d003	Maliniak,Kyoichi	12898
110114	d002	McAlpine,Alejandro	12437
110854	d006	Peac,Sumant	14546
111133	d007	Simmel,Bezalel	37701
111534	d008	Zielinski,Tzvetan	15441

-- e) top 10 immediate manager names by most (current and not current) employees . Hint: join on dept\_managers, dept\_emp, employees table

use dbda2;

select m.emp\_no,m.dept\_no, concat(e.last\_name,',', e.first\_name) as "Manager Name",  
count(e.emp\_no) as "Current employee"

from dept\_emp de

inner join dept\_manager m

on de.dept\_no = m.dept\_no

and m.to\_date>now()

inner join employees e

on de.emp\_no = e.emp\_no

group by m.emp\_no,m.dept\_no

order by 3,4 desc limit 10;

```
49 -- e) top 10 immediate manager names by most (current and not current) employees . Hint: join on dept_managers, dept_emp, employees table
50 • use dbda2;
51 • select m.emp_no,m.dept_no, concat(e.last_name,',', e.first_name) as "Manager Name", count(e.emp_no) as "Current employee"
52 from dept_emp de
53     inner join dept_manager m
54         on de.dept_no = m.dept_no
55         and m.to_date>now()
56     inner join employees e
57         on de.emp_no = e.emp_no
58 group by m.emp_no,m.dept_no
59 order by 3,4 desc limit 10;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Contents: |

	emp_no	dept_no	Manager Name	Current employee
▶	110420	d004	Bamford,Parto	73485
	110039	d001	Bouloucos,Cristinel	20211
	110567	d005	Facello,Georgi	85707
	110228	d003	Maliniak,Kyoichi	17786
	110854	d006	Peac,Sumant	20117
	111133	d007	Simmel,Bezalel	52245
	111939	d009	Sluis,Mary	23580
	110114	d002	Stamatiou,Magy	17346
	111534	d008	Zielinski,Tzvetan	21126