

Lab work report 5 - GROUP

Cao Anh Quan - ICT Master

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- What is the average salary of each employee?

```

select
    employees.emp_no,
    concat(employees.first_name,"_",employees.last_name),
    avg(salary) as "average_salary"
from salaries
join
employees
on employees.emp_no = salaries.emp_no
group by emp_no;

```

```

| 499984 | Kaijung Rodham
|      54431.2143 |
| 499985 | Gila Lukaszewicz
|      43500.6667 |
| 499986 | Nathan Ranta
|      105961.7059 |
| 499987 | Rimli Dusink
|      54279.6667 |
| 499988 | Bangqing Kleiser
|      86700.7143 |
| 499989 | Keiichiro Lindqvist
|      68260.4000 |
| 499990 | Khaled Kohling
|      43325.0000 |
| 499991 | Pohua Sichman
|      47829.5000 |
| 499992 | Siamak Salverda
|      64179.7500 |
| 499993 | DeForest Mullainathan
|      40944.6667 |
| 499994 | Navin Argence
|      40000.0000 |
| 499995 | Dekang Lichtner
|      45891.6667 |
| 499996 | Zito Baaz
|      63134.1429 |
| 499997 | Bernhard Lenart

```

	66475.8667	
499998	Patricia Breugel	
	46665.5556	
499999	Sachin Tsukuda	
	70625.0000	

300024 rows in set (1.71 sec)

- How much was each employee paid in total?

```

select
    employees.emp_no,
    concat(employees.first_name,"_",employees.last_name),
    sum(salary) as "total_salary"
from salaries
join
employees
on employees.emp_no = salaries.emp_no
group by emp_no;

```

499986	Nathan Ranta	
	1801349	
499987	Rimli Dusink	
	162839	
499988	Bangqing Kleiser	
	1213810	
499989	Keiichiro Lindqvist	
	341302	
499990	Khaled Kohling	
	129975	
499991	Pohua Sichman	
	286977	
499992	Siamak Salverda	
	1026876	
499993	DeForest Mullainathan	
	245668	
499994	Navin Argence	
	40000	

499995	Dekang Lichtner
275350	
499996	Zito Baaz
441939	
499997	Berhard Lenart
997138	
499998	Patricia Breugel
419990	
499999	Sachin Tsukuda
353125	

300024 rows in set (1.68 sec)

- Minimum, maximum and total salaries of each department?

```

select
    dept_name,
    min(salary) as "min_salary",
    max(salary) as "max_salary",
    sum(salary) as "total_salary"
from salaries
join dept_emp
on dept_emp.emp_no = salaries.emp_no
join departments
on departments.dept_no = dept_emp.dept_no
group by dept_emp.dept_no;

```

dept_name	min salary	max salary	total salary
Finance	38812	142395	11650834677
Human Resources	38735	141953	9363811425
Production	38623	138273	41554438942
Quality Management	38786	132103	10865203635
Customer Service	38836	144866	13143639841
Research and Development	38849	144434	57200885924
Marketing and Sales	39127	158220	51054820927

7 rows in set (2.78 sec)

- Which departments have paid more than 20 billion dollars for their employees?

```
select
    dept_name ,
    sum(salary) as total_salary
from salaries
join dept_emp
on dept_emp.emp_no = salaries.emp_no
join departments
on departments.dept_no = dept_emp.dept_no
group by dept_emp.dept_no
having sum(salary) > 20000000000;
```

dept_name	total_salary
Production	41554438942
Research and Development	57200885924
Marketing and Sales	51054820927

3 rows in set (3.23 sec)

- Total salaries of male employees in each department?

```
select
    departments.dept_name ,
    sum(salary) as total_salary
from salaries
join employees
on employees.emp_no = salaries.emp_no
join dept_emp
on employees.emp_no = dept_emp.emp_no
join departments
on departments.dept_no = dept_emp.dept_no
where employees.gender = "M"
group by departments.dept_no;
```

dept_name	total_salary
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Finance	6940675318
Human Resources	5619533959
Production	24873889749
Quality Management	6472073211
Customer Service	7865587983
Research and Development	34387010200
Marketing and Sales	30754859529
7 rows in set (2.41 sec)	

- Total salaries of department managers for each department, from highest to lowest?

```

select
    departments.dept_name,
    sum(salary) as total_salary
from salaries
join dept_manager
on dept_manager.emp_no = salaries.emp_no
join departments
on departments.dept_no = dept_manager.dept_no
group by dept_manager.dept_no
order by total_salary desc;

```

dept_name	total_salary
Marketing and Sales	6008127
Research and Development	4587037
Quality Management	4162118
Production	3374004
Customer Service	3187661
Finance	2549372
Human Resources	2098298
7 rows in set (0.00 sec)	