Lab work report 5 - GROUP

Cao Anh Quan - ICT Master

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- What is the average salary of each employee?

```sql
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 | Berhard 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?

```sql
select
        dept_name
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                |
+--------------------------+
| Production               |
| Research and Development |
| Marketing and Sales      |
+--------------------------+
3 rows in set (2.70 sec)
```

- Total salaries of male employees in each department?

```sql
select
        sum(salary) as total_salary
from salaries
join employees
on employees.emp_no = salaries.emp_no
where employees.gender = "M";
```

```
+--------------+
| total_salary |
+--------------+
| 108928421890 |
+--------------+
1 row in set (0.96 sec)
```

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

```sql
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)