

Report.5.GROUP

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November 2017

1 What is the average salary of each employee?

```
select emp_no, avg(salary) from salaries group by emp_no;
```

499986	105961.7059
499987	54279.6667
499988	86700.7143
499989	68260.4000
499990	43325.0000
499991	47829.5000
499992	64179.7500
499993	40944.6667
499994	40000.0000
499995	45891.6667
499996	63134.1429
499997	66475.8667
499998	46665.5556
499999	70625.0000

-----+-----
300024 rows in set (1.75 sec)

2 How much was each employee paid in total?

```
select emp_no, sum(salary) from salaries group by emp_no;
```

499986	1801349
499987	162839
499988	1213810
499989	341302
499990	129975
499991	286977
499992	1026876
499993	245668
499994	40000
499995	275350
499996	441939
499997	997138
499998	419990
499999	353125

300024 rows in set (1.68 sec)

3 Minimum, maximum and total salaries of each department?

```
select dept_no, min(salary), max(salary)
      from dept_emp join salaries on salaries.emp_no = dept_emp.emp_no
      group by dept_no;
```

dept_no	min(salary)	max(salary)
d001	39127	145128
d002	38812	142395
d003	38735	141953
d004	38623	138273
d005	38849	144434
d006	38786	132103
d007	39169	158220
d008	38851	130211
d009	38836	144866

9 rows in set (10.61 sec)

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

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

```
mysql> select dept_no, sum(salary)
-> from dept_emp join salaries on salaries.emp_no = dept_emp.emp_no
[ -> group by dept_no having sum(salary)>20000000000;
+-----+-----+
| dept_no | sum(salary) |
+-----+-----+
| d004    | 41554438942 |
| d005    | 48179456393 |
| d007    | 40030089342 |
+-----+-----+
3 rows in set (10.43 sec)
```

5 Total salaries of male employees in each department?

```
select dept_no, sum(salary)
      from dept_emp join salaries on salaries.emp_no = dept_emp.emp_no
      join employees on salaries.emp_no = employees.emp_no
      where gender='M'
      group by dept_no;
```

```
mysql> select dept_no, sum(salary)
-> from dept_emp join salaries on salaries.emp_no = dept_emp.emp_no
-> join employees on salaries.emp_no = employees.emp_no
-> where gender='M'
[ -> group by dept_no;
+-----+-----+
| dept_no | sum(salary) |
+-----+-----+
| d001    | 8352455367  |
| d002    | 6940675318  |
| d003    | 5619533959  |
| d004    | 24873889749 |
| d005    | 28961357095 |
| d006    | 6472073211  |
| d007    | 24051537190 |
| d008    | 7174578852  |
| d009    | 7865587983  |
+-----+-----+
9 rows in set (9.78 sec)
```

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

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

```
mysql> select dept_no, sum(salary) as summ
-> from dept_manager join salaries on salaries.emp_no = dept_manager.emp_no
-> group by dept_no
-> order by summ desc;
```

dept_no	summ
d006	4162118
d004	3374004
d009	3187661
d001	3093009
d007	2915118
d008	2558661
d002	2549372
d003	2098298
d005	2028376

```
9 rows in set (0.01 sec)
```