

Information Systems: Labwork 5

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Labwork 5

What is the average salary of each employee?

```
1 SELECT EMP_NO, AVG(SALARY) FROM SALARIES GROUP BY EMP_NO;
```

Output:

```
1 ...
2 | 499996 | 63134.1429 |
3 | 499997 | 66475.8667 |
4 | 499998 | 46665.5556 |
5 | 499999 | 70625.0000 |
6 +-----+
7 300024 rows in set (2.18 sec)
```

How much was each employee paid in total?

```
1 SELECT EMP_NO, SUM(SALARY) FROM SALARIES GROUP BY EMP_NO;
```

Output:

```
1 ...
2 | 499996 | 441939 |
3 | 499997 | 997138 |
4 | 499998 | 419990 |
5 | 499999 | 353125 |
6 +-----+
7 300024 rows in set (2.18 sec)
```

Minimum, maximum and total salaries of each department?

```
1 SELECT DEPT_NO, MIN(SALARY), MAX(SALARY), SUM(SALARY)
2 FROM DEPT.EMP JOIN SALARIES ON DEPT.EMP.EMP_NO = SALARIES.EMP_NO
3 GROUP BY DEPT_NO;
```

Output:

```
1 +-----+-----+-----+-----+
2 | DEPT_NO | MIN(SALARY) | MAX(SALARY) | SUM(SALARY) |
3 +-----+-----+-----+-----+
4 | d001 | 39127 | 145128 | 13725425266 |
5 | d002 | 38812 | 142395 | 11650834677 |
6 | d003 | 38735 | 141953 | 9363811425 |
7 | d004 | 38623 | 138273 | 41554438942 |
8 | d005 | 38849 | 144434 | 48179456393 |
9 | d006 | 38786 | 132103 | 10865203635 |
10 | d007 | 39169 | 158220 | 40030089342 |
11 | d008 | 38851 | 130211 | 11969730427 |
12 | d009 | 38836 | 144866 | 13143639841 |
13 +-----+-----+-----+-----+
14 9 rows in set (11.31 sec)
```

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

```
1 SELECT DEPT_NO, SUM(SALARY) AS TOTAL
2 FROM DEPT.EMP JOIN SALARIES ON DEPT.EMP.EMP_NO = SALARIES.EMP_NO
3 GROUP BY DEPT_NO HAVING TOTAL > 20000000000;
```

Output:

```

1 |-----|
2 | DEPT_NO | TOTAL |
3 |-----|
4 | d004    | 41554438942 |
5 | d005    | 48179456393 |
6 | d007    | 40030089342 |
7 |-----|
8 3 rows in set (11.35 sec)

```

Total salaries of male employees in each department?

```

1 SELECT DEPT_NO, SUM(SALARY) FROM DEPT_EMP
2       JOIN EMPLOYEES ON DEPT_EMP.EMP_NO = EMPLOYEES.EMP_NO AND GENDER = 'M'
3       JOIN SALARIES ON DEPT_EMP.EMP_NO = SALARIES.EMP_NO
4 GROUP BY DEPT_NO;

```

Output:

```

1 |-----|
2 | DEPT_NO | SUM(SALARY) |
3 |-----|
4 | d001    | 8352455367 |
5 | d002    | 6940675318 |
6 | d003    | 5619533959 |
7 | d004    | 24873889749 |
8 | d005    | 28961357095 |
9 | d006    | 6472073211 |
10 | d007    | 24051537190 |
11 | d008    | 7174578852 |
12 | d009    | 7865587983 |
13 |-----|
14 9 rows in set (9.96 sec)

```

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

```

1 SELECT DEPT_NO, SUM(SALARY) AS TOTAL FROM DEPT_MANAGER
2       JOIN SALARIES ON DEPT_MANAGER.EMP_NO = SALARIES.EMP_NO
3 GROUP BY DEPT_NO ORDER BY TOTAL DESC;

```

Output:

```

1 |-----|
2 | DEPT_NO | TOTAL |
3 |-----|
4 | d006    | 4162118 |
5 | d004    | 3374004 |
6 | d009    | 3187661 |
7 | d001    | 3093009 |
8 | d007    | 2915118 |
9 | d008    | 2558661 |
10 | d002    | 2549372 |
11 | d003    | 2098298 |
12 | d005    | 2028376 |
13 |-----|
14 9 rows in set (0.02 sec)

```