```
mysql> SELECT
    ->       ROUND(MAX(Salary)) AS Maximum,
    ->       ROUND(MIN(Salary)) AS Minimum,
    ->       ROUND(SUM(Salary)) AS Sum,
    ->       ROUND(AVG(Salary)) AS Average
    -> FROM Employees;
+----------+----------+---------+----------+
| Maximum  | Minimum  | Sum     | Average  |
+----------+----------+---------+----------+
|    70000 |    50000 | 300000  |    60000 |
+----------+----------+---------+----------+
1 row in set (0.10 sec)

mysql>
```

```
mysql> SELECT
    ->     job_type,
    ->     ROUND(MAX(salary)) AS Maximum,
    ->     ROUND(MIN(salary)) AS Minimum,
    ->     ROUND(SUM(salary)) AS Sum,
    ->     ROUND(AVG(salary)) AS Average
    -> FROM employees
    -> GROUP BY job_type;
+-----------+---------+---------+---------+----------+
| job_type | Maximum | Minimum | Sum     | Average |
+-----------+---------+---------+---------+----------+
| Engineer |   82000 |   75000 | 157000 |   78500 |
| HR       |   56000 |   52000 | 108000 |   54000 |
| Manager  |   95000 |   88000 | 183000 |   91500 |
+-----------+---------+---------+---------+----------+
3 rows in set (0.04 sec)

mysql>
```

```
mysql> SELECT
    ->     JobTitle,
    ->     ROUND(MAX(Salary)) AS Maximum,
    ->     ROUND(MIN(Salary)) AS Minimum,
    ->     ROUND(SUM(Salary)) AS Sum,
    ->     ROUND(AVG(Salary)) AS Average
    -> FROM Employees
    -> GROUP BY JobTitle;
+-----------+---------+---------+--------+---------+
| JobTitle  | Maximum | Minimum | Sum    | Average |
+-----------+---------+---------+--------+---------+
| Developer |   70000 |   60000 | 130000 |   65000 |
| Manager   |   85000 |   80000 | 165000 |   82500 |
| Analyst   |   50000 |   50000 |  50000 |   50000 |
+-----------+---------+---------+--------+---------+
3 rows in set (0.02 sec)

mysql> SET @job_title = 'Developer';
Query OK, 0 rows affected (0.00 sec)

mysql>
mysql> SELECT
    ->     JobTitle,
    ->     COUNT(*) AS NumberOfEmployees
    -> FROM Employees
    -> WHERE JobTitle = @job_title
    -> GROUP BY JobTitle;
+-----------+-------------------+
| JobTitle  | NumberOfEmployees |
+-----------+-------------------+
| Developer |                 2 |
+-----------+-------------------+
1 row in set (0.20 sec)

mysql>
```

```
mysql> SELECT COUNT(DISTINCT Manager_ID) AS Number_of_Managers
    -> FROM Employees
    -> WHERE Manager_ID IS NOT NULL;
+--------------------+
| Number_of_Managers |
+--------------------+
|                  3 |
+--------------------+
1 row in set (0.02 sec)

mysql>
```

```
mysql> SELECT manager_id, MIN(salary) AS min_salary
    -> FROM employees
    -> WHERE manager_id IS NOT NULL
    -> GROUP BY manager_id
    -> HAVING min_salary > 6000;
Empty set (0.01 sec)

mysql> SELECT e.manager_id, e.salary
    -> FROM employees e
    -> JOIN (
    ->     SELECT manager_id, MIN(salary) AS min_salary
    ->     FROM employees
    ->     WHERE manager_id IS NOT NULL
    ->     GROUP BY manager_id
    ->     HAVING MIN(salary) > 6000
    -> ) sub ON e.manager_id = sub.manager_id AND e.salary = sub.min_salary
    -> ORDER BY e.salary DESC;
Empty set (0.00 sec)

mysql>
```

```
mysql> SELECT
    ->     COUNT(*) AS Total_Employees,
    ->     SUM(CASE WHEN YEAR(HireDate) = 1995 THEN 1 ELSE 0 END) AS Hired_1
995,
    ->     SUM(CASE WHEN YEAR(HireDate) = 1996 THEN 1 ELSE 0 END) AS Hired_1
996,
    ->     SUM(CASE WHEN YEAR(HireDate) = 1997 THEN 1 ELSE 0 END) AS Hired_1
997,
    ->     SUM(CASE WHEN YEAR(HireDate) = 1998 THEN 1 ELSE 0 END) AS Hired_1
998
    -> FROM Employees;
+-----------------+-------------+-------------+-------------+-------------+
| Total_Employees | Hired_1995 | Hired_1996 | Hired_1997 | Hired_1998 |
+-----------------+-------------+-------------+-------------+-------------+
|              10 |           2 |           2 |           2 |           2 |
+-----------------+-------------+-------------+-------------+-------------+
1 row in set (0.03 sec)

mysql>
```

```
mysql> SELECT
    ->     Job,
    ->     SUM(CASE WHEN DepartmentNumber = 20 THEN Salary ELSE 0 END) AS Dept_20_Salary,
    ->     SUM(CASE WHEN DepartmentNumber = 50 THEN Salary ELSE 0 END) AS Dept_50_Salary,
    ->     SUM(CASE WHEN DepartmentNumber = 80 THEN Salary ELSE 0 END) AS Dept_80_Salary,
    ->     SUM(CASE WHEN DepartmentNumber = 90 THEN Salary ELSE 0 END) AS Dept_90_Salary,
    ->     SUM(Salary) AS Total_Salary
    -> FROM
    ->     Employees
    -> WHERE
    ->     DepartmentNumber IN (20, 50, 80, 90)
    -> GROUP BY
    ->     Job;
+----------+----------------+----------------+----------------+----------------+--------------+
| Job      | Dept_20_Salary | Dept_50_Salary | Dept_80_Salary | Dept_90_Salary | Total_Salary |
+----------+----------------+----------------+----------------+----------------+--------------+
| Manager  |        8000.00 |           0.00 |        9000.00 |        8500.00 |     25500.00 |
| Clerk    |        3000.00 |           0.00 |        3200.00 |           0.00 |      6200.00 |
| Analyst  |           0.00 |        5000.00 |           0.00 |        4800.00 |      9800.00 |
| Salesman |           0.00 |        6000.00 |           0.00 |        6100.00 |     12100.00 |
+----------+----------------+----------------+----------------+----------------+--------------+
4 rows in set (0.01 sec)

mysql>
```

```
ysql> SELECT
   ->     d.department_name AS Location,
   ->     d.location AS "Name-Location",
   ->     COUNT(e.employee_id) AS "Number of People",
   ->     ROUND(AVG(e.salary), 2) AS "Salary"
   -> FROM
   ->     departments d
   -> LEFT JOIN
   ->     employees e ON d.department_id = e.department_id
   -> GROUP BY
   ->     d.department_name, d.location;
+------------+---------------+--------------------+-----------+
| Location   | Name-Location | Number of People | Salary    |
+------------+---------------+--------------------+-----------+
| Sales      | New York      |                  2 | 52500.00 |
| Marketing | Los Angeles   |                  1 | 60000.00 |
+------------+---------------+--------------------+-----------+
rows in set (0.01 sec)

ysql>
```