```
mysql> SELECT
    ->     e.employee_id,
    ->     e.job_id
    -> FROM
    ->     employees e
    -> JOIN
    ->     (SELECT
    ->         employee_id,
    ->         job_id
    ->      FROM
    ->         job_history
    ->      WHERE
    ->         start_date = (SELECT MIN(start_date)
    ->                       FROM job_history jh
    ->                       WHERE jh.employee_id = job_history.employee_id)) jh_initial
    -> ON
    ->     e.employee_id = jh_initial.employee_id
    -> WHERE
    ->     e.job_id = jh_initial.job_id;
+-------------+--------+
| employee_id | job_id |
+-------------+--------+
|           1 |    101 |
|           2 |    102 |
|           3 |    103 |
+-------------+--------+
3 rows in set (0.03 sec)

mysql>
```

```
mysql> SELECT department_id
    -> FROM departments
    -> WHERE department_id NOT IN (
    ->     SELECT DISTINCT department_id
    ->     FROM employees
    ->     WHERE job_id = 'ST_CLERK'
    -> );
+---------------+
| department_id |
+---------------+
|             2 |
|             3 |
|             4 |
+---------------+
3 rows in set (0.04 sec)

mysql>
```

```
mysql> SELECT c.country_id, c.country_name
    -> FROM countries c
    -> LEFT JOIN departments d ON c.country_id = d.country_id
    -> WHERE d.country_id IS NULL;
+------------+--------------+
| country_id | country_name |
+------------+--------------+
|          4 | France       |
|          5 | Germany      |
+------------+--------------+
2 rows in set (0.00 sec)

mysql>
```

```
mysql> SELECT e.last_name, e.department_id, d.department_name
    -> FROM EMPLOYEES e
    -> LEFT JOIN DEPARTMENTS d ON e.department_id = d.department_id
    ->
    -> UNION ALL
    ->
    -> -- Second part: department ID and department name of all departments
    -> SELECT NULL AS last_name, d.department_id, d.department_name
    -> FROM DEPARTMENTS d
    -> LEFT JOIN EMPLOYEES e ON e.department_id = d.department_id
    -> WHERE e.department_id IS NULL;
+-----------+---------------+-----------------+
| last_name | department_id | department_name |
+-----------+---------------+-----------------+
| Smith     |             1 | Human Resources |
| Johnson   |             2 | IT              |
| Williams  |          NULL | NULL            |
| NULL      |             3 | Finance         |
+-----------+---------------+-----------------+
4 rows in set (0.00 sec)

mysql>
```

```
mysql> (
    ->     SELECT job_id, department_id FROM jobs WHERE department_id = 10
    -> ) UNION ALL (
    ->     SELECT job_id, department_id FROM jobs WHERE department_id = 50
    -> ) UNION ALL (
    ->     SELECT job_id, department_id FROM jobs WHERE department_id = 20
    -> )
    -> ORDER BY department_id, job_id;
+--------+---------------+
| job_id | department_id |
+--------+---------------+
|      1 |            10 |
|      4 |            10 |
|      7 |            10 |
|      2 |            20 |
|      6 |            20 |
|      9 |            20 |
|      3 |            50 |
|      5 |            50 |
|      8 |            50 |
+--------+---------------+
9 rows in set (0.01 sec)

mysql>
```