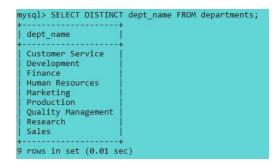tietokannat ja rajapinnat vk3 teht 5 t3luja00

employees osa 1.

a) Minkä nimisiä osastoja (Departments) Employees-tietokannassa on ?
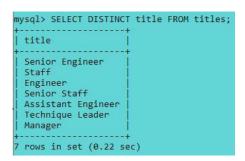
mysql> SELECT DISTINCT dept_name FROM departments;

```
mysql> SELECT DISTINCT dept_name FROM departments;
+-------------------+
| dept_name         |
+-------------------+
| Customer Service  |
| Development       |
| Finance           |
| Human Resources   |
| Marketing         |
| Production        |
| Quality Management|
| Research          |
| Sales             |
+-------------------+
9 rows in set (0.01 sec)
```

löytyy Customer Service, Development, Finance, Human Resources, Marketing, Production, Quality Management, Research, Sales

b) Tulosta, (yhden kerran kukin) mitä nimikkeitä (title) tietokannassa on.

mysql> SELECT DISTINCT title FROM titles;

```
mysql> SELECT DISTINCT title FROM titles;
+-------------------+
| title             |
+-------------------+
| Senior Engineer   |
| Staff             |
| Engineer          |
| Senior Staff      |
| Assistant Engineer|
| Technique Leader  |
| Manager           |
+-------------------+
7 rows in set (0.22 sec)
```

c) Mikä on suurin ja pienin palkka (salary) ? VIHJE: MIN, MAX

mysql> SELECT MIN(salary) as smallest_salary,MAX(salary) as highest_salary FROM salaries;

tai SELECT MIN(salary) FROM salaries;   38623

SELECT MAX(salary) FROM salaries;   158220

```
mysql> SELECT MIN(salary) as smallest_salary,MAX(salary) as highest_salary FROM salaries;
+-----------------+----------------+
| smallest_salary | highest_salary |
+-----------------+----------------+
|           38623 |         158220 |
+-----------------+----------------+
1 row in set (0.60 sec)
```

d) Mikä on keskimääräinen palkka ? VIHJE: AVG

        mysql> SELECT AVG(salary) as average_salary FROM salaries;   63810.7448

```
mysql> SELECT AVG(salary) as average_salary FROM salaries;
+----------------+
| average_salary |
+----------------+
|     63810.7448 |
+----------------+
1 row in set (0.67 sec)
```

e) Tulosta kaikki työntekijät, joiden sukunimi on Facello.

        mysql> SELECT * FROM employees WHERE last_name = 'Facello';

        tai SELECT first_name,last_name FROM employees WHERE last_name = "Facello" ORDER BY first_name;

```
mysql> SELECT * FROM employees WHERE last_name = 'Facello';
+--------+------------+------------+-----------+--------+------------+
| emp_no | birth_date | first_name | last_name | gender | hire_date  |
+--------+------------+------------+-----------+--------+------------+
|  10001 | 1953-09-02 | Georgi     | Facello   | M      | 1986-06-26 |
|  10327 | 1954-04-01 | Roded      | Facello   | M      | 1987-09-18 |
|  12751 | 1964-07-06 | Nahum      | Facello   | M      | 1995-01-09 |
|  15346 | 1959-09-26 | Kirk       | Facello   | F      | 1991-12-07 |
|  15685 | 1958-07-12 | Kasturi    | Facello   | M      | 1992-03-13 |
```

f) Kuinka moni työntekijä on syntynyt 1950-luvulla ?

        mysql> SELECT COUNT(*) as employees_born_in_1950s FROM employees WHERE birth_date BETWEEN '1950-01-01' AND '1959-12-31';

        Tai

        SELECT COUNT (*) FROM employees WHERE birth_date > "1949-12-31" AND birth_date < "1960-01-01"   182886 kpl

```
mysql> SELECT COUNT(*) FROM employees WHERE birth_date > "1949-12-31" AND birth_date < "1960-01-01";
+----------+
| COUNT(*) |
+----------+
|   182886 |
+----------+
1 row in set (0.12 sec)
```

g) Montako miestä ja montako naista työntekijöissä on ?

        mysql> SELECT gender,COUNT(*) as count FROM employees GROUP BY gender;

```
mysql> SELECT gender,COUNT(*) as count FROM employees GROUP BY gender;
+--------+--------+
| gender | count  |
+--------+--------+
| M      | 179973 |
| F      | 120051 |
+--------+--------+
2 rows in set (0.14 sec)
```