



# Tietokannat ja rajapinnat Employees Osa 1 ja 2

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GitHub: [Paina tästä!](#)

# Tehtävä Employees

## Osa 1

### Tehtävät A ja B

```
mysql> SELECT * FROM departments;
```

| dept_no | dept_name          |
|---------|--------------------|
| d009    | Customer Service   |
| d005    | Development        |
| d002    | Finance            |
| d003    | Human Resources    |
| d001    | Marketing          |
| d004    | Production         |
| d006    | Quality Management |
| d008    | Research           |
| d007    | Sales              |

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

```
mysql>
```

Tehtävä A

```
mysql> SELECT DISTINCT title FROM titles  
-> ;
```

| title              |
|--------------------|
| Senior Engineer    |
| Staff              |
| Engineer           |
| Senior Staff       |
| Assistant Engineer |
| Technique Leader   |
| Manager            |

```
7 rows in set (0.16 sec)
```

```
mysql>
```

Tehtävä B



# Tehtävä Employees

## Osa 1

### Tehtävät D ja C

```
mysql> SELECT employees.last_name AS Sukunimi, employees.first_name AS Etunimi, salaries.salary AS palkka FROM employees JOIN salaries ON employees.emp_no = salaries.emp_no WHERE employees.last_name='Facello';
```

| Sukunimi | Etunimi | palkka |
|----------|---------|--------|
| Facello  | Georgi  | 60117  |
| Facello  | Georgi  | 62102  |
| Facello  | Georgi  | 66074  |
| Facello  | Georgi  | 66596  |
| Facello  | Georgi  | 66961  |
| Facello  | Georgi  | 71046  |
| Facello  | Georgi  | 74333  |
| Facello  | Georgi  | 75286  |
| Facello  | Georgi  | 75994  |
| Facello  | Georgi  | 76884  |
| Facello  | Georgi  | 80013  |
| Facello  | Georgi  | 81025  |
| Facello  | Georgi  | 81097  |
| Facello  | Georgi  | 84917  |
| Facello  | Georgi  | 85112  |
| Facello  | Georgi  | 85097  |
| Facello  | Georgi  | 88958  |
| Facello  | Roded   | 54734  |
| Facello  | Roded   | 55702  |
| Facello  | Roded   | 57004  |

### Tehtävä D plus extrana etunimi ja palkka

```
mysql> SELECT employees.last_name, salaries.salary FROM employees JOIN salaries ON employees.emp_no = salaries.emp_no ORDER BY salaries.salary LIMIT 10;
```

| last_name | salary |
|-----------|--------|
| Baek      | 38623  |
| Unno      | 38735  |
| Kuhnemann | 38786  |
| Narwekar  | 38812  |
| Langford  | 38836  |
| Kobuchi   | 38849  |
| Biran     | 38850  |
| Syang     | 38851  |
| Unno      | 38859  |
| Rohrbach  | 38864  |

10 rows in set (1.39 sec)

```
mysql>
```

### Tehtävä C plus extrana sukunimi ja 10 Tietuetta

# Tehtävä Employees

## Osa 1

### Tehtävät E ja F

```
mysql> SELECT gender, COUNT(*), NULL AS Total FROM employees WHERE birth_date BETWEEN '1950-1-1' AND '1959-12-31' GROUP BY gender UNION ALL SELECT 'Total', (SELECT COUNT(*) FROM employees WHERE birth_date BETWEEN '1950-1-1' AND '1959-12-31'), NULL;
```

| gender | COUNT(*) | Total |
|--------|----------|-------|
| M      | 109732   | NULL  |
| F      | 73154    | NULL  |
| Total  | 182886   | NULL  |

3 rows in set (0.25 sec)

Tehtävä E plus extrana gender count ja totalCount

```
mysql> SELECT gender AS Sukupuoli, COUNT(*) AS Määrä, NULL AS Total FROM employees GROUP BY gender UNION ALL SELECT 'Yhteensä', (SELECT COUNT(*) FROM employees), NULL;
```

| Sukupuoli | Määrä  | Total |
|-----------|--------|-------|
| M         | 179973 | NULL  |
| F         | 120051 | NULL  |
| Yhteensä  | 300024 | NULL  |

3 rows in set (0.11 sec)

Tehtävä F plus extrana Kokonaismäärä

# Tehtävä Employees

## Osa 2 Tehtävät A,B,C ja D

```
mysql> SELECT last_name AS Sukunimi, first_name AS Etunimi FROM employees ORDER BY last_name LIMIT 10;
```

| Sukunimi | Etunimi   |
|----------|-----------|
| Aamodt   | Bartek    |
| Aamodt   | Aluzio    |
| Aamodt   | Dekang    |
| Aamodt   | Matt      |
| Aamodt   | Mokhtar   |
| Aamodt   | Sreenivas |
| Aamodt   | Sachem    |
| Aamodt   | Basim     |
| Aamodt   | Vidar     |
| Aamodt   | Takanari  |

10 rows in set (0.08 sec)

Tehtävä 2 A plus extrana molemmat nimet

```
mysql> SELECT last_name AS Sukunimi, first_name AS Etunimi FROM employees ORDER BY last_name, first_name LIMIT 10;
```

| Sukunimi | Etunimi    |
|----------|------------|
| Aamodt   | Abdelkader |
| Aamodt   | Adhemar    |
| Aamodt   | Aemilian   |
| Aamodt   | Alagu      |
| Aamodt   | Aleksander |
| Aamodt   | Alexius    |
| Aamodt   | Alois      |
| Aamodt   | Aluzio     |
| Aamodt   | Amabile    |
| Aamodt   | Anestis    |

10 rows in set (0.09 sec)

Tehtävä 2 B

```
mysql> SELECT employees.*, salaries.salary FROM employees JOIN salaries ON employees.emp_no = salaries.emp_no ORDER BY employees.hire_date DESC LIMIT 5;
```

| emp_no | birth_date | first_name | last_name | gender | hire_date  | salary |
|--------|------------|------------|-----------|--------|------------|--------|
| 463807 | 1964-06-12 | Bikash     | Covnot    | M      | 2000-01-28 | 52793  |
| 428377 | 1957-05-09 | Yucal      | Gerlach   | M      | 2000-01-23 | 61367  |
| 428377 | 1957-05-09 | Yucal      | Gerlach   | M      | 2000-01-23 | 64045  |
| 428377 | 1957-05-09 | Yucal      | Gerlach   | M      | 2000-01-23 | 65075  |
| 499553 | 1954-05-06 | Hideyuki   | Delgrande | F      | 2000-01-22 | 65611  |

5 rows in set (0.22 sec)

Tehtävä 2 C plus extrana palkka

```
mysql> SELECT first_name AS Etunimi, last_name AS Sukunimi, salaries.salary FROM employees JOIN salaries ON employees.emp_no = salaries.emp_no ORDER BY salaries.salary DESC LIMIT 5;
```

| Etunimi  | Sukunimi  | salary |
|----------|-----------|--------|
| Tokuyasu | Pesch     | 158220 |
| Tokuyasu | Pesch     | 157821 |
| Honesty  | Mukaidono | 156286 |
| Xiahua   | Whitcomb  | 155709 |
| Sanjai   | Luders    | 155513 |

5 rows in set (1.38 sec)

Tehtävä 2 D



# Tehtävä Employees

## Osa 2 Tehtävät G ja H

```
mysql> SELECT departments.dept_name AS Osasto, COUNT(*) AS Työntekijöiden_lukumäärä FROM employees JOIN dept_emp ON employees.emp_no = dept_emp.emp_no JOIN departments ON dept_emp.dept_no = departments.dept_no WHERE departments.dept_name = 'Sales' GROUP BY departments.dept_name UNION SELECT departments.dept_name AS Osasto, COUNT(*) AS Työntekijöiden_lukumäärä FROM employees JOIN dept_emp ON employees.emp_no = dept_emp.emp_no JOIN departments ON dept_emp.dept_no = departments.dept_no WHERE departments.dept_name = 'Marketing' GROUP BY departments.dept_name;
```

| Osasto    | Työntekijöiden_lukumäärä |
|-----------|--------------------------|
| Sales     | 52245                    |
| Marketing | 20211                    |

2 rows in set (0.15 sec)

```
mysql>
```

### Tehtävä 2 G

```
mysql> SELECT first_name AS Etunimi, last_name AS Sukunimi, dept_name AS Osasto, salary AS Palkka FROM employees e JOIN dept_manager dm ON e.emp_no=dm.emp_no JOIN departments dept ON dm.dept_no=dept.dept_no JOIN salaries s ON e.emp_no=s.emp_no;
```

| Etunimi | Sukunimi    | Osasto           | Palkka |
|---------|-------------|------------------|--------|
| Tonny   | Butterworth | Customer Service | 40000  |
| Tonny   | Butterworth | Customer Service | 42706  |
| Tonny   | Butterworth | Customer Service | 46154  |
| Tonny   | Butterworth | Customer Service | 46488  |
| Tonny   | Butterworth | Customer Service | 49830  |
| Tonny   | Butterworth | Customer Service | 51810  |
| Tonny   | Butterworth | Customer Service | 54618  |
| Tonny   | Butterworth | Customer Service | 55108  |
| Tonny   | Butterworth | Customer Service | 58465  |
| Tonny   | Butterworth | Customer Service | 58423  |
| Tonny   | Butterworth | Customer Service | 62441  |
| Tonny   | Butterworth | Customer Service | 62541  |
| Tonny   | Butterworth | Customer Service | 64553  |
| Tonny   | Butterworth | Customer Service | 66715  |
| Tonny   | Butterworth | Customer Service | 69217  |
| Tonny   | Butterworth | Customer Service | 72573  |
| Tonny   | Butterworth | Customer Service | 72421  |
| Tonny   | Butterworth | Customer Service | 73953  |
| Marjo   | Giaratana   | Customer Service | 40000  |
| Marjo   | Giaratana   | Customer Service | 41189  |
| Marjo   | Giaratana   | Customer Service | 44026  |
| Marjo   | Giaratana   | Customer Service | 48315  |
| Marjo   | Giaratana   | Customer Service | 48079  |
| Marjo   | Giaratana   | Customer Service | 48181  |
| Marjo   | Giaratana   | Customer Service | 48273  |
| Marjo   | Giaratana   | Customer Service | 49770  |
| Marjo   | Giaratana   | Customer Service | 51900  |
| Marjo   | Giaratana   | Customer Service | 52121  |
| Marjo   | Giaratana   | Customer Service | 54187  |
| Marjo   | Giaratana   | Customer Service | 54138  |
| Marjo   | Giaratana   | Customer Service | 54183  |
| Marjo   | Giaratana   | Customer Service | 57946  |
| Marjo   | Giaratana   | Customer Service | 58189  |
| Xiaobin | Spinelli    | Customer Service | 53846  |
| Xiaobin | Spinelli    | Customer Service | 54158  |
| Xiaobin | Spinelli    | Customer Service | 57342  |
| Xiaobin | Spinelli    | Customer Service | 59020  |
| Xiaobin | Spinelli    | Customer Service | 61093  |

### Tehtävä 2 H Plus extrana Palkka

# Tehtävä Employees

## Osa 1 Tehtävät I ja L

```
mysql> SELECT dept_name AS Osasto, AVG(salary) AS Keskipalkka FROM salaries JOIN dept_emp ON salaries.emp_no=dept_emp.emp_no JOIN departments ON dept_emp.dept_no=departments.dept_no WHERE dept_emp.to_date='9999-01-01' AND dept_name IN ('Sales', 'Marketing') GROUP BY dept_name;
```

| Osasto    | Keskipalkka |
|-----------|-------------|
| Marketing | 72406.4350  |
| Sales     | 81128.7247  |

2 rows in set (1.15 sec)

## Tehtävä 2 I Plus Extraa

```
mysql> SELECT dept_name AS Osasto, AVG(salary) AS Keskipalkka FROM salaries JOIN dept_emp ON salaries.emp_no=dept_emp.emp_no JOIN departments ON dept_emp.dept_no=departments.dept_no WHERE dept_emp.to_date='9999-01-01' GROUP BY dept_name;
```

| Osasto             | Keskipalkka |
|--------------------|-------------|
| Development        | 59957.1176  |
| Sales              | 81128.7247  |
| Production         | 60086.6939  |
| Human Resources    | 56181.1543  |
| Research           | 60182.9441  |
| Quality Management | 57759.2273  |
| Marketing          | 72406.4350  |
| Customer Service   | 59567.3837  |
| Finance            | 70899.7629  |

9 rows in set (2.51 sec)

Tehtävä 2 L plus extrana keskipalkka Kaikilla Osastoilla



# Kiitos!

Klikkaa alta GitHubiin:

[DaMonnFIN/Tietokannat](#)  
[K2023](#)