

- a) Minkä nimisiä osastoja (Departments) Employees-tietokannassa on ?

mysql> show tables; → mysql> describe departments; →

mysql> select dept_name FROM departments;

```
mysql> select dept_name FROM departments;
+-----+
| dept_name |
+-----+
| Customer Service |
| Development      |
| Finance          |
| Human Resources  |
| Marketing        |
| Production       |
| Quality Management |
| Research         |
| Sales            |
+-----+
9 rows in set (0.00 sec)
```

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

mysql> show tables; → mysql> describe titles; →

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 (0.29 sec)
```

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

mysql> show tables; → mysql> describe salaries; → mysql> select min(salary),
max(salary) FROM salaries;

```
mysql> select min(salary), max(salary) FROM salaries;
+-----+-----+
| min(salary) | max(salary) |
+-----+-----+
|          38623 |          158220 |
+-----+-----+
1 row in set (0.69 sec)
```

d) Mikä on keskimääräinen palkka ? VIHJE: AVG

```
mysql> select avg(salary) from salaries;
+-----+
| avg(salary) |
+-----+
|    63810.7448 |
+-----+
1 row in set (0.64 sec)
```

e) Tulosta kaikki työntekijät, joiden sukunimi on Facello.

```
mysql> select * FROM employees WHERE last_name = 'Facello';
```

```
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 |
| 18686 | 1962-02-23 | Kwangyeon | Facello | F | 1985-05-02 |
| 19041 | 1957-05-29 | Billur | Facello | F | 1992-08-03 |
| 21947 | 1954-06-18 | Taisook | Facello | F | 1991-07-30 |
| 23938 | 1955-07-11 | Nahum | Facello | M | 1985-09-15 |
| 24774 | 1956-09-23 | Uno | Facello | F | 1989-11-09 |
| 24806 | 1959-09-30 | Charmane | Facello | F | 1989-03-17 |
| 25955 | 1962-10-09 | Christoph | Facello | M | 1989-03-24 |
| 27732 | 1955-06-04 | Girolamo | Facello | M | 1986-06-30 |
| 30320 | 1953-12-21 | Kristine | Facello | F | 1990-06-10 |
| 31107 | 1962-10-13 | Fai | Facello | M | 1994-07-11 |
| 32138 | 1955-04-13 | Anyuan | Facello | F | 1988-10-04 |
| 32580 | 1953-04-25 | Kirk | Facello | M | 1988-05-31 |
| 36371 | 1961-05-29 | Cristinel | Facello | M | 1986-10-14 |
| 37261 | 1957-11-06 | Zijian | Facello | F | 1986-06-30 |
| 41667 | 1953-12-23 | Barna | Facello | F | 1985-09-13 |
| 44502 | 1962-09-16 | Fumitaka | Facello | M | 1985-08-25 |
| 44934 | 1957-02-20 | Rimli | Facello | M | 1991-08-09 |
| 48319 | 1962-09-22 | Genta | Facello | F | 1989-12-02 |
```

Tietokannat ja rajapinnat K2025 TVT24SPL
Employees, osa 1

VK

48913	1959-07-11	Danny	Facello	F	1996-02-06
49069	1955-05-02	Kasturi	Facello	M	1995-03-31
50931	1953-10-21	Panayotis	Facello	F	1989-11-07
51025	1957-06-09	Weiwu	Facello	M	1992-10-04
51983	1963-04-30	Arra	Facello	F	1991-12-12
52277	1956-04-07	Rance	Facello	M	1988-04-19
52727	1955-06-21	Steve	Facello	M	1988-05-13
53807	1960-12-03	Mountaz	Facello	M	1988-05-11
55649	1956-01-23	Georgi	Facello	M	1988-05-04
57432	1956-05-10	Stafford	Facello	M	1989-09-08
63380	1961-07-02	Huan	Facello	M	1990-03-28
65853	1964-06-21	Nahid	Facello	M	1996-11-30
69509	1960-03-23	Kannan	Facello	F	1998-05-29
71639	1956-03-27	Eckart	Facello	M	1998-06-10
72427	1956-03-15	Atreyi	Facello	F	1986-09-30
73057	1959-08-03	Shichao	Facello	F	1987-02-01
79847	1959-08-24	Roded	Facello	M	1989-04-06
79931	1957-08-21	Xiahua	Facello	M	1993-08-07
80243	1962-08-18	Remzi	Facello	M	1986-10-12
80505	1958-05-27	Mads	Facello	M	1997-04-24
83039	1954-06-21	Yonghong	Facello	F	1988-01-30
84001	1955-06-02	Badri	Facello	F	1985-06-14
88231	1962-10-25	Kannan	Facello	M	1988-07-19
88963	1961-10-08	Stafford	Facello	F	1992-08-23
89220	1962-08-08	Ramzi	Facello	M	1988-07-19
89271	1956-04-24	Vidya	Facello	M	1985-02-10
89589	1961-07-15	Fuqing	Facello	M	1987-08-28
89910	1959-12-30	Sajjan	Facello	M	1993-10-30
91919	1964-02-07	Suebskul	Facello	M	1993-10-22
91962	1964-05-22	Stein	Facello	M	1987-10-12

94747	1957-09-07	Clyde	Facello	M	1989-04-22
97318	1961-12-26	Rosalie	Facello	M	1999-03-07
100752	1960-03-09	Samphel	Facello	F	1989-02-14
101495	1961-03-17	Juichirou	Facello	M	1999-04-23
102479	1952-07-07	Serap	Facello	F	1986-06-29
106915	1957-05-29	Masaki	Facello	F	1985-08-24
107809	1955-05-14	Mihalis	Facello	M	1985-02-03
200136	1954-09-27	Tristan	Facello	F	1989-12-30
200250	1955-09-12	Arvin	Facello	F	1989-02-14
200566	1963-05-06	Mari	Facello	M	1986-12-03
201657	1952-03-15	Jamaludin	Facello	M	1991-05-29
202512	1957-06-08	Rance	Facello	F	1990-07-14
204816	1953-12-26	Arif	Facello	M	1991-06-24
206036	1963-06-03	Arno	Facello	F	1987-04-12
207355	1954-10-15	Diederik	Facello	M	1990-06-08
208005	1961-01-30	Dulce	Facello	M	1985-08-22
210012	1962-02-20	Fusako	Facello	M	1989-09-26
211977	1961-02-23	Baruch	Facello	M	1985-03-26
215869	1959-11-11	Moto	Facello	F	1991-09-15
216580	1954-02-02	Susuma	Facello	F	1987-01-02
216768	1962-01-06	Aamod	Facello	F	1999-04-24
218123	1956-10-09	Gino	Facello	F	1989-03-19
218848	1959-12-09	Vishv	Facello	M	1987-02-13
219590	1954-12-20	Nahid	Facello	F	1986-12-13
221035	1953-07-21	Troy	Facello	M	1985-11-27
222990	1955-12-06	Utpal	Facello	M	1993-03-12
223761	1964-12-17	Jouko	Facello	M	1992-10-28
227132	1961-04-11	Qingxiang	Facello	F	1993-08-16
227664	1963-10-11	Ottavia	Facello	M	1988-12-16
230533	1963-05-12	Kamakshi	Facello	M	1992-08-26

Tietokannat ja rajapinnat K2025 TVT24SPL
Employees, osa 1

VK

234115	1958-01-24	Gill	Facello	M	1990-05-22
234296	1964-05-11	Steen	Facello	F	1986-08-21
237121	1956-01-09	Constantijn	Facello	M	1985-05-07
239070	1956-04-18	Zsolt	Facello	F	1986-03-21
241050	1957-07-25	Mizuhito	Facello	F	1992-01-05
242934	1953-07-29	Gurbir	Facello	M	1985-03-13
246131	1963-06-15	Ebru	Facello	F	1993-07-28
252669	1955-02-22	Hinrich	Facello	M	1989-03-19
254096	1960-03-03	Tonia	Facello	M	1985-04-03
255382	1952-11-28	Zito	Facello	M	1993-10-24
255423	1960-03-19	Leah	Facello	F	1995-06-27
255802	1959-12-18	Jaewon	Facello	M	1991-02-03
256087	1959-04-05	Bedrich	Facello	M	1989-05-04
257028	1962-02-17	Constantine	Facello	F	1988-10-08
257115	1959-11-05	Emdad	Facello	M	1990-06-07
257162	1962-04-27	Basil	Facello	M	1995-03-14
266232	1964-03-31	Horward	Facello	M	1990-03-11
269765	1956-10-30	Chanjung	Facello	M	1992-01-20
273484	1959-05-13	Yagil	Facello	F	1995-11-06
275609	1957-02-28	Kyoichi	Facello	M	1995-01-02
275990	1952-10-28	Yakichi	Facello	M	1989-06-24
276833	1957-07-15	Lunjin	Facello	M	1991-03-30
277386	1963-01-27	Kish	Facello	F	1992-08-22
277755	1955-05-21	Shahar	Facello	M	1992-03-21
279151	1963-04-30	Mohd	Facello	M	1992-02-08
279352	1953-07-14	Sanjit	Facello	M	1986-11-22
279985	1957-09-12	Bikash	Facello	M	1997-07-10
280447	1952-04-24	Fumiko	Facello	M	1989-02-10
281660	1964-08-06	Mansur	Facello	F	1992-11-30
281990	1960-12-14	Xiaoshan	Facello	M	1989-02-22

285312	1963-02-14	Nathan	Facello	M	1988-08-28
286096	1952-07-16	Kazuyasu	Facello	M	1995-04-13
287855	1956-07-07	Weiru	Facello	M	1988-08-29
289338	1956-07-18	Jackson	Facello	M	1986-09-01
290163	1956-12-13	Huiqun	Facello	M	1995-02-04
290571	1962-05-09	Gladys	Facello	M	1988-04-17
292825	1952-05-20	Tru	Facello	F	1985-02-22
294696	1961-04-28	Sahrah	Facello	M	1987-05-12
297576	1963-06-22	Alain	Facello	M	1986-12-19
297591	1960-07-26	Arumugam	Facello	M	1996-10-10
401980	1957-10-17	Sudharsan	Facello	F	1992-09-15
403038	1952-09-17	Mitsuyuki	Facello	M	1985-08-16
404503	1953-09-16	Xiong	Facello	M	1987-12-27
407189	1957-05-01	Ult	Facello	F	1986-04-14
412547	1955-05-21	Ulises	Facello	M	1986-05-14
413116	1963-03-30	Weidon	Facello	F	1991-11-20
413584	1961-02-26	Inderjeet	Facello	M	1987-06-03
414084	1957-08-26	Khalil	Facello	M	1992-06-12
416780	1957-10-21	Eckart	Facello	F	1988-11-13
418129	1960-04-13	Arfst	Facello	F	1985-06-03
420349	1961-10-04	Reinhard	Facello	M	1986-09-23
420884	1957-06-22	Mani	Facello	F	1994-11-21
421882	1964-01-12	Mamdouh	Facello	M	1997-07-17
423322	1959-03-14	Seongbae	Facello	M	1990-05-10
423903	1956-07-07	Conal	Facello	M	1988-01-22
425112	1961-04-14	Xiaoqiu	Facello	M	1985-06-19
425965	1957-08-01	Val	Facello	M	1991-06-20
427281	1959-01-16	Tokuyasu	Facello	M	1988-01-24
428653	1952-09-02	Barton	Facello	F	1992-02-05
430343	1963-04-10	Danco	Facello	F	1993-10-22

434843	1960-03-26	Shigeo	Facello	M	1990-01-21
435421	1958-11-26	Shushma	Facello	M	1988-02-25
439070	1959-01-04	Subhash	Facello	F	1985-06-13
442432	1963-06-30	Jingling	Facello	M	1988-06-02
443359	1955-03-05	Jackson	Facello	F	1995-09-04
445724	1961-06-20	Zissis	Facello	F	1994-07-04
447565	1954-01-25	Qunsheng	Facello	F	1987-11-17
449566	1958-02-06	LiMin	Facello	M	1989-04-25
450603	1962-08-06	Elrique	Facello	M	1988-12-09
451667	1961-02-26	Kamakshi	Facello	F	1985-11-20
451765	1960-11-21	Sajjan	Facello	F	1993-04-02
454227	1959-09-12	Mooi	Facello	M	1989-05-29
456365	1962-10-03	Shao	Facello	M	1985-10-19
457593	1963-08-29	Marjo	Facello	F	1995-08-05
457882	1958-06-02	Hatem	Facello	M	1985-03-11
459497	1953-12-16	Phillip	Facello	M	1985-06-10
461755	1962-12-24	Alselm	Facello	M	1986-04-21
462193	1955-02-22	Baocai	Facello	M	1985-11-04
462209	1960-03-09	Marko	Facello	M	1992-02-24
463064	1963-04-18	Wilmer	Facello	F	1995-03-25
465096	1955-07-23	Denny	Facello	M	1985-02-16
465901	1953-01-18	Magdalena	Facello	M	1988-08-12
466175	1958-05-19	Zejun	Facello	F	1986-02-17
466540	1957-06-09	Tetsushi	Facello	F	1991-07-18
467230	1957-01-31	Goo	Facello	F	1990-08-30
467993	1964-03-10	Ramya	Facello	M	1986-02-23
469507	1960-06-09	Badri	Facello	F	1993-07-02
471246	1958-07-30	Maya	Facello	M	1985-05-15
473885	1955-07-03	Janalee	Facello	M	1987-01-23
475627	1958-07-28	Zhonghua	Facello	F	1996-08-29

476363	1964-01-05	Muzhong	Facello	M	1989-11-12
477033	1961-07-19	Sanjiv	Facello	F	1985-06-22
477983	1953-05-01	Masali	Facello	M	1991-07-26
480705	1961-10-21	Marke	Facello	F	1988-10-20
481003	1959-04-07	Val	Facello	M	1986-12-29
483648	1962-08-20	Rimon	Facello	M	1996-05-27
483934	1957-06-28	Rosalyn	Facello	M	1991-05-20
485964	1964-09-14	Souichi	Facello	M	1994-03-11
486102	1956-09-08	Arfst	Facello	F	1996-07-29
486829	1953-10-11	Mary	Facello	M	1998-02-13
487188	1959-02-20	Richara	Facello	M	1985-08-31
488569	1955-11-15	Satoru	Facello	M	1993-03-20
493549	1960-04-17	Achilleas	Facello	F	1991-11-27

186 rows in set (0.17 sec)

- f) Kuinka moni työntekijä on syntynyt 1950-luvulla ?

```
mysql> select COUNT(*) FROM employees WHERE birth_date >='1950-01-01' AND
birth_date <'1960-01-01';
```

```
mysql> select COUNT(*) FROM employees WHERE birth_date >='1950-01-01' AND birth_date <'1960-01-01';
+-----+
| COUNT(*) |
+-----+
|    182886 |
+-----+
1 row in set (0.06 sec)
```

- g) Montako miestä ja montako naista työntekijöissä on ?

```
mysql> show tables; → mysql> describe employees; →
```

```
mysql> select gender, count(*) FROM employees GROUP BY gender;
```

```
mysql> select gender, count(*) FROM employees GROUP BY gender;
+-----+-----+
| gender | count(*) |
+-----+-----+
| M      |    179973 |
| F      |    120051 |
+-----+-----+
2 rows in set (0.13 sec)
```