

tietokannat vk 3

A)

```
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 (0.03 sec)
```

B)

```
select title FROM titles GROUP BY title;
```

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

```
7 rows in set (0.41 sec)
```

C)

```
mysql> select MIN(salary) AS salaries, MAX(salary) AS salaries FROM salaries;
```

salaries	salaries
38623	158220

```
1 row in set (1.16 sec)
```

D)

```
mysql> select avg(salary) from salaries;
+-----+
| avg(salary) |
+-----+
| 63810.7448 |
+-----+
1 row in set (1.38 sec)
```

E)

```
mysql> select * from employees WHERE last_name LIKE '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 | Kwangyoen | 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 |
+-----+-----+-----+-----+-----+-----+
```

F)

```
mysql> select COUNT(*) AS birth_date FROM employees WHERE birth_date BETWEEN '1950-01-01' AND '1959-12-31';
+-----+
| birth_date |
+-----+
| 182886 |
+-----+
1 row in set (0.26 sec)
```

G)

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

gender	count(*)
M	179973
F	120051

```
2 rows in set (0.28 sec)
```

pet ja owner

```
mysql> select * from owner join pet on owner.ownerID = pet.ownerID;
```

first_name	last_name	address	ownerID	name	species	sex	birth	death	petID	ownerID
Harold	Lloyd	Someaddress 1	1	Fluffy	cat	f	1993-02-04	NULL	1	1
Harold	Lloyd	Someaddress 1	1	Buffy	dog	f	1989-05-13	NULL	3	1
Benny	Hill	Someaddress 3	3	Claws	cat	m	1994-03-17	NULL	2	3
Benny	Hill	Someaddress 3	3	Chirpy	bird	f	1998-09-11	2000-09-15	6	3
Benny	Hill	Someaddress 3	3	Whistler	bird	NULL	1997-12-09	NULL	7	3
Diane	Keaton	Someaddress 4	4	Fang	dog	m	1990-08-27	NULL	4	4
Diane	Keaton	Someaddress 4	4	Slim	snake	m	1996-04-29	NULL	8	4

```
7 rows in set (0.00 sec)
```

employees 2

A)

```
mysql> select * from employees order by last_name asc limit 10;
```

emp_no	birth_date	first_name	last_name	gender	hire_date
11761	1964-07-17	Bartek	Aamodt	M	1991-06-12
15427	1959-03-06	Aluzio	Aamodt	M	1985-03-03
18182	1963-02-23	Dekang	Aamodt	F	1988-05-25
16572	1956-11-26	Matt	Aamodt	M	1987-06-16
12791	1960-06-16	Mokhtar	Aamodt	M	1994-08-14
12516	1958-06-25	Sreenivas	Aamodt	F	1990-03-06
12982	1952-12-08	Sachem	Aamodt	F	1992-01-11
17400	1962-03-22	Basim	Aamodt	F	1991-09-15
19898	1957-03-09	Vidar	Aamodt	M	1988-08-06
17885	1954-02-01	Takanari	Aamodt	M	1996-08-19

10 rows in set (0.29 sec)

```
mysql> █
```

B)

```
mysql> select * from employees order by last_name asc, first_name asc limit 10;
```

emp_no	birth_date	first_name	last_name	gender	hire_date
258641	1961-05-23	Abdelkader	Aamodt	M	1994-12-02
258005	1953-02-17	Adhemar	Aamodt	F	1991-01-21
455773	1960-05-04	Aemilian	Aamodt	M	1988-04-21
436560	1959-03-16	Alagu	Aamodt	F	1991-10-17
266651	1959-05-28	Aleksander	Aamodt	F	1989-03-29
487598	1962-03-03	Alexius	Aamodt	M	1994-12-30
216963	1960-07-16	Alois	Aamodt	M	1995-08-24
15427	1959-03-06	Aluzio	Aamodt	M	1985-03-03
100860	1964-06-20	Amabile	Aamodt	F	1993-02-06
107070	1954-04-24	Anestis	Aamodt	M	1990-10-30

10 rows in set (0.48 sec)

C)

```
mysql> select * from employees order by hire_date asc limit 5;
```

emp_no	birth_date	first_name	last_name	gender	hire_date
110022	1956-09-12	Margareta	Markovitch	M	1985-01-01
110511	1957-07-08	DeForest	Hagimont	M	1985-01-01
110303	1956-06-08	Krassimir	Wegerle	F	1985-01-01
110085	1959-10-28	Ebru	Alpin	M	1985-01-01
110183	1953-06-24	Shirish	Ossenbruggen	F	1985-01-01

5 rows in set (0.21 sec)

D)

```
mysql> select employees.first_name, employees.last_name, salaries.salary from employees inner join salaries on employees.emp_no=salaries.emp_no order by salaries.salary desc limit 1;
```

first_name	last_name	salary
Tokuyasu	Pesch	158220

1 row in set (2.82 sec)

E)

```
mysql> select employees.first_name, employees.last_name, salaries.salary from employees inner join salaries on employees.emp_no=salaries.emp_no order by salaries.salary limit 1;
```

first_name	last_name	salary
Olivera	Baek	38623

1 row in set (3.13 sec)

F)

```
mysql> SELECT employees.first_name, employees.last_name, salaries.salary FROM employees JOIN salaries ON  
-> employees.emp_no=salaries.emp_no WHERE salary>150000;
```

first_name	last_name	salary
Tokuyasu	Pesch	151115
Tokuyasu	Pesch	153166
Tokuyasu	Pesch	153458
Tokuyasu	Pesch	157821
Tokuyasu	Pesch	158220
Ibibia	Junet	150345
Xiahua	Whitcomb	151929
Xiahua	Whitcomb	155709
Lansing	Kambil	150052
Willard	Baca	151768
Willard	Baca	154459
Tsutomu	Alameldin	151484
Tsutomu	Alameldin	154885
Tsutomu	Alameldin	155377
Tsutomu	Alameldin	154888
Tsutomu	Alameldin	155190
Charmane	Griswold	151596
Charmane	Griswold	153715
Weicheng	Hatcliff	150994
Weicheng	Hatcliff	152687
Mitsuyuki	Stanfel	152220
Sanjai	Luders	150378
Sanjai	Luders	154227
Sanjai	Luders	155513
Honesty	Mukaidono	150754
Honesty	Mukaidono	152576
Honesty	Mukaidono	156286
Weijing	Chenoweth	151080
Weijing	Chenoweth	152710
Shin	Birdsall	150467
Shin	Birdsall	152412
Mohammed	Moehrke	150740
Lidong	Meriste	150993
Lidong	Meriste	151565
Lidong	Meriste	152208

G)

```
mysql> SELECT dept_name,COUNT(*) AS Lukumaara FROM departments
-> JOIN dept_emp ON departments.dept_no=dept_emp.dept_no
-> JOIN employees ON employees.emp_no=dept_emp.emp_no
-> where dept_name in('Marketing','Sales')
-> group by dept_name;
```

dept_name	Lukumaara
Marketing	20211
Sales	52245

H)

```
mysql> select first_name, last_name, dept_name from dept_manager
-> JOIN employees ON dept_manager.emp_no=employees.emp_no
-> JOIN departments on dept_manager.dept_no=departments.dept_no
-> ;
```

first_name	last_name	dept_name
Tonny	Butterworth	Customer Service
Marjo	Giarratana	Customer Service
Xiaobin	Spinelli	Customer Service
Yuchang	Weedman	Customer Service
DeForest	Hagimont	Development
Leon	DasSarma	Development
Ebru	Alpin	Finance
Isamu	Legleitner	Finance
Shirish	Ossenbruggen	Human Resources
Karsten	Sigstam	Human Resources
Margareta	Markovitch	Marketing
Vishwani	Minakawa	Marketing
Krassimir	Wegerle	Production
Rosine	Cools	Production
Shem	Kieras	Production
Oscar	Ghazalie	Production
Peternela	Onuegbe	Quality Management
Rutger	Hofmeyr	Quality Management
Sanjoy	Quadeer	Quality Management
Dung	Pesch	Quality Management
Arie	Staelin	Research
Hilary	Kambil	Research
Przemyslaw	Kaelbling	Sales
Hauke	Zhang	Sales

I)

```
mysql> select avg(salary) from salaries inner join
-> dept_emp on salaries.emp_no=dept_emp.emp_no
-> where dept_emp.dept_no='d007';
```

```
+-----+
| avg(salary) |
+-----+
| 80667.6058 |
+-----+
```

1 row in set (1.16 sec)

```
mysql> select avg(salary) from salaries inner join
-> dept_emp on salaries.emp_no=dept_emp.emp_no
-> where dept_emp.dept_no='d001';
```

```
+-----+
| avg(salary) |
+-----+
| 71913.2000 |
+-----+
```

sakila

A)

```
mysql> select * from language order by name;
```

```
+-----+-----+-----+
| language_id | name      | last_update      |
+-----+-----+-----+
| 1           | English   | 2006-02-15 05:02:19 |
| 5           | French    | 2006-02-15 05:02:19 |
| 6           | German    | 2006-02-15 05:02:19 |
| 2           | Italian   | 2006-02-15 05:02:19 |
| 3           | Japanese  | 2006-02-15 05:02:19 |
| 4           | Mandarin  | 2006-02-15 05:02:19 |
+-----+-----+-----+
```

B)

```
mysql> select actor.last_name, film.title from actor inner join film_actor on actor.actor_id = film_actor.actor_id inner join film on film_actor.film_id = film.film_id where actor.last_name='Temple';
```

```
+-----+-----+
| last_name | title      |
+-----+-----+
| TEMPLE    | ACADEMY DINOSAUR |
+-----+-----+
```

C)

```
mysql> select film.title, actor.last_name, actor.first_name from actor
      -> inner join film_actor on actor.actor_id=film_actor.actor_id
      -> inner join film on film_actor.film_id=film.film_id
      -> where film.title='Ghost Groundhog';
```

title	last_name	first_name
GHOST GROUNDHOG	HARRIS	DAN
GHOST GROUNDHOG	TORN	KENNETH
GHOST GROUNDHOG	GARLAND	KEVIN
GHOST GROUNDHOG	TEMPLE	RUSSELL
GHOST GROUNDHOG	BALL	RENEE

D)

```
mysql> select count(*) from film_category
      -> inner join category on film_category.category_id=category.category_id
      -> where category.name='Horror';
```

count(*)
56

E)

```
mysql> select film.title from film
      -> inner join film_category on film_category.film_id=film.film_id
      -> where film_category.category_id='11';
```

title
ACE GOLDFINGER
AFFAIR PREJUDICE
AIRPORT POLLOCK
ALABAMA DEPT.