1번

```
223 •   SELECT first_name, last_name, salary
224     FROM employees
225     WHERE salary NOT BETWEEN 10000 AND 15000;
```

Result Grid | Filter Rows: | Export:

first_name	last_name	salary
Steven	King	24000.00
Neena	Kochhar	17000.00
Lex	De Haan	17000.00
Alexander	Hunold	9000.00
Bruce	Ernst	6000.00
David	Austin	4800.00
Valli	Pataballa	4800.00
Diana	Lorentz	4200.00
Daniel	Faviet	9000.00
John	Chen	8200.00

2번

```
223 •   SELECT first_name, last_name, department_id
224     FROM employees
225     WHERE department_id IN (30, 100)
226     ORDER BY  department_id  ASC;
```

Result Grid | Filter Rows: | Export:

first_name	last_name	department_id
Den	Raphaely	30
Alexander	Khoo	30
Shelli	Baida	30
Sigal	Tobias	30
Guy	Himuro	30
Karen	Colmenares	30
Nancy	Greenberg	100
Daniel	Faviet	100
John	Chen	100

3번

```
223 •   SELECT first_name, last_name, salary, department_id
224     FROM employees
225     WHERE salary NOT BETWEEN 10000 AND 15000
226     AND department_id IN (30, 100);
```

Result Grid | Filter Rows: | Export: | Wrap Cell Cont

first_name	last_name	salary	department_id
Alexander	Khoo	3100.00	30
Shelli	Baida	2900.00	30
Sigal	Tobias	2800.00	30
Guy	Himuro	2600.00	30
Karen	Colmenares	2500.00	30
Daniel	Faviet	9000.00	100
John	Chen	8200.00	100

4번

```
223 •   SELECT first_name, last_name, hire_date
224     FROM employees
225     WHERE YEAR(hire_date)  LIKE '1987%';
226
```

Result Grid | Filter Rows: | Export:

first_name	last_name	hire_date
Steven	King	1987-06-17
Neena	Kochhar	1987-06-18
Lex	De Haan	1987-06-19
Alexander	Hunold	1987-06-20
Bruce	Ernst	1987-06-21

5번

```
223 •   SELECT first_name
224     FROM employees
225     WHERE first_name LIKE '%b%'
226     AND first_name LIKE '%c%';
```

Result Grid | Filter Rows:

first_name
Bruce

6번

```
223 •   SELECT last_name, job_id, salary
224     FROM employees
225     WHERE job_id IN ('IT_PROG', 'SH_CLERK')
226     AND salary NOT IN (4500,10000, 15000);
```

Result Grid | Filter Rows: | Export:

last_name	job_id	salary
Hunold	IT_PROG	9000.00
Ernst	IT_PROG	6000.00
Austin	IT_PROG	4800.00
Pataballa	IT_PROG	4800.00

7번

```
223 •   SELECT last_name FROM employees WHERE last_name LIKE '_____';
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

last_name
Austin
Bissot
Cabrio
Davies
Faviet
Feeney

8번

```
223 •   SELECT last_name FROM employees WHERE last_name LIKE '__e%';
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

last_name
Abel
Baer
Chen

9번

```
223 •   SELECT DISTINCT job_id  FROM employees;
224
```

Result Grid | Filter Rows: | Export:

job_id
AC_ACCOUNT
AC_MGR
AD_ASST

10번

```
223 •  SELECT first_name, last_name, salary, salary*.15 PF from employees;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

first_name	last_name	salary	PF
Steven	King	24000.00	3600.0000
Neena	Kochhar	17000.00	2550.0000
Lex	De Haan	17000.00	2550.0000
Alexander	Hunold	9000.00	1350.0000
Bruce	Ernst	6000.00	900.0000
David	Austin	4800.00	720.0000

11번

```
223 •  SELECT *
224    FROM employees
225    WHERE last_name IN('JONES', 'BLAKE', 'SCOTT', 'KING', 'FORD');
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DE
195	Vance	Jones	VJONES	650.501.4876	1987-09-20	SH_CLERK	2800.00	0.00	123	50
156	Janette	King	JKING	011.44.1345.429268	1987-08-12	SA_REP	10000.00	0.35	146	80
100	Steven	King	SKING	515.123.4567	1987-06-17	AD_PRES	24000.00	0.00	0	90
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

1번

```
225 •  SELECT COUNT(DISTINCT job_id)
226    FROM employees;
```

Result Grid | Filter Rows:

COUNT(DISTINCT job_id)
19

2번

```
223 •  SELECT SUM(salary)
224    FROM employees;
```

Result Grid | Filter Rows:

SUM(salary)
691400.00

3번

```
223 •   SELECT MIN(salary)
224     FROM employees;
```

Result Grid | Filter Rows:

MIN(salary)
2100.00

4번

```
223 •   SELECT MAX(salary)
224     FROM employees
225     WHERE job_id = 'IT_PROG';
```

Result Grid | Filter Rows:

MAX(salary)
9000.00

5번

```
223 •   SELECT AVG(salary),count(*)
224     FROM employees
225     WHERE department_id = 90;
```

Result Grid | Filter Rows:

AVG(salary)	count(*)
19333.333333	3

6번

```
223 •   SELECT ROUND(MAX(salary),0) 'Maximum',
224     ROUND(MIN(salary),0) 'Minimum',
225     ROUND(SUM(salary),0) 'Sum',
226     ROUND(AVG(salary),0) 'Average'
227     FROM employees;
```

Result Grid | Filter Rows: | Export:

Maximum	Minimum	Sum	Average
24000	2100	691400	6462

7번

```
223 •   SELECT job_id, COUNT(*)
224     FROM employees
225     GROUP BY job_id;
```

Result Grid | Filter Rows:

job_id	COUNT(*)
AC_ACCOUNT	1
AC_MGR	1
AD_ASST	1
AD_PRES	1
AD_VP	2
FI_ACCOUNT	5
FI_MGR	1

8번

```
223 •   SELECT MAX(salary) - MIN(salary) DIFFERENCE
224     FROM employees;
```

Result Grid | Filter Rows: | Export:

DIFFERENCE
21900.00

9번

```
223 •   SELECT manager_id, MIN(salary)
224     FROM employees
225     WHERE manager_id IS NOT NULL
226     GROUP BY manager_id
227     ORDER BY MIN(salary) DESC;
```

Result Grid | Filter Rows:

manager_id	MIN(salary)
0	24000.00
102	9000.00
205	8300.00
145	7000.00

10번

```
223 •   SELECT department_id, SUM(salary)
224     FROM employees
225     GROUP BY department_id;
```

Result Grid | Filter Rows: | Ex

department_id	SUM(salary)
0	7000.00
10	4400.00
20	19000.00
30	24900.00
40	6500.00

11번

```
223 •   SELECT job_id, AVG(salary)
224     FROM employees
225     WHERE job_id <> 'IT_PROG'
226     GROUP BY job_id;
```

Result Grid | Filter Rows:

job_id	AVG(salary)
AC_ACCOUNT	8300.000000
AC_MGR	12000.000000
AD_ASST	4400.000000
AD_PRES	24000.000000
AD_VP	17000.000000

12번

```
223 •   SELECT job_id, SUM(salary), AVG(salary), MAX(salary), MIN(salary)
224     FROM employees
225     WHERE department_id = '90'
226     GROUP BY job_id;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

job_id	SUM(salary)	AVG(salary)	MAX(salary)	MIN(salary)
AD_PRES	24000.00	24000.000000	24000.00	24000.00
AD_VP	34000.00	17000.000000	17000.00	17000.00

13번

```
223 •   SELECT job_id, MAX(salary)
224     FROM employees
225     GROUP BY job_id
226     HAVING MAX(salary) >=4000;
```

Result Grid | Filter Rows:

job_id	MAX(salary)
AC_ACCOUNT	8300.00
AC_MGR	12000.00
AD_ASST	4400.00
AD_PRES	24000.00

14번

```
223 •   SELECT department_id, AVG(salary), COUNT(*)
224     FROM employees
225     GROUP BY department_id
226     HAVING COUNT(*) > 10;
```

Result Grid | Filter Rows: | Export:

department_id	AVG(salary)	COUNT(*)
50	3475.555556	45
80	8955.882353	34