

```
mysql> select ename,sal,sal*12
-> from emp
-> where sal*12>12000;
```

ename	sal	sal*12
ALLEN	1600.00	19200.00
WARD	1250.00	15000.00
JONES	2975.00	35700.00
MARTIN	1250.00	15000.00
BLAKE	2850.00	34200.00
CLARK	2450.00	29400.00
SCOTT	3000.00	36000.00
KING	5000.00	60000.00
TURNER	1500.00	18000.00
ADAMS	1100.00	13200.00
FORD	3000.00	36000.00
MILLER	1300.00	15600.00

```
mysql> select distinct sal
-> from emp;
```

sal
800.00
1600.00
1250.00
2975.00
2850.00
2450.00
3000.00
5000.00
1500.00
1100.00
950.00
1300.00

```
mysql> select*
-> from emp
-> where deptno=30 or job='analyst';
```

empno	ename	job	mgr	hiredate	sal	comm	deptno
7499	ALLEN	SALESMAN	7698	1981-02-20	1600.00	300.00	30
7521	WARD	SALESMAN	7698	1981-02-22	1250.00	500.00	30
7654	MARTIN	SALESMAN	7698	1981-09-28	1250.00	1400.00	30
7698	BLAKE	MANAGER	7839	1981-05-01	2850.00	NULL	30
7788	SCOTT	ANALYST	7566	1982-12-09	3000.00	NULL	20
7844	TURNER	SALESMAN	7698	1981-09-08	1500.00	0.00	30
7900	JAMES	CLERK	7698	1981-12-03	950.00	NULL	30
7902	FORD	ANALYST	7566	1981-12-03	3000.00	NULL	20

8 rows in set (0.04 sec)

```
mysql> select *
-> from emp
-> where job='clerk' and sal<=1500;
```

empno	ename	job	mgr	hiredate	sal	comm	deptno
7369	SMITH	CLERK	7902	1980-12-17	800.00	NULL	20
7876	ADAMS	CLERK	7788	1983-01-12	1100.00	NULL	20
7900	JAMES	CLERK	7698	1981-12-03	950.00	NULL	30
7934	MILLER	CLERK	7782	1982-01-23	1300.00	NULL	10

```
mysql> select ename
-> from emp
-> where ename like 'a%';
```

ename
ALLEN
ADAMS

```
mysql> SELECT *
-> FROM emp
-> WHERE ename LIKE 'a%n';
```

empno	ename	job	mgr	hiredate	sal	comm	deptno
7499	ALLEN	SALESMAN	7698	1981-02-20	1600.00	300.00	30

1 row in set (0.00 sec)

```
mysql> SELECT *
-> FROM emp
-> WHERE ename LIKE '%h';
```

empno	ename	job	mgr	hiredate	sal	comm	deptno
7369	SMITH	CLERK	7902	1980-12-17	800.00	NULL	20

1 row in set (0.00 sec)

```
mysql> SELECT *
-> FROM emp
-> WHERE ename LIKE 'a__n';
```

empno	ename	job	mgr	hiredate	sal	comm	deptno
7499	ALLEN	SALESMAN	7698	1981-02-20	1600.00	300.00	30

```
mysql> SELECT *
-> FROM emp
-> WHERE sal LIKE '_____';
```

empno	ename	job	mgr	hiredate	sal	comm	deptno
7499	ALLEN	SALESMAN	7698	1981-02-20	1600.00	300.00	30
7521	WARD	SALESMAN	7698	1981-02-22	1250.00	500.00	30
7566	JONES	MANAGER	7839	1981-04-02	2975.00	NULL	20
7654	MARTIN	SALESMAN	7698	1981-09-28	1250.00	1400.00	30
7698	BLAKE	MANAGER	7839	1981-05-01	2850.00	NULL	30
7782	CLARK	MANAGER	7839	1981-06-09	2450.00	NULL	10
7788	SCOTT	ANALYST	7566	1982-12-09	3000.00	NULL	20
7839	KING	PRESIDENT	NULL	1981-11-17	5000.00	NULL	10
7844	TURNER	SALESMAN	7698	1981-09-08	1500.00	0.00	30
7876	ADAMS	CLERK	7788	1983-01-12	1100.00	NULL	20
7902	FORD	ANALYST	7566	1981-12-03	3000.00	NULL	20
7934	MILLER	CLERK	7782	1982-01-23	1300.00	NULL	10

```
mysql> SELECT *
-> FROM emp
-> WHERE deptno=20 OR deptno=30;
```

empno	ename	job	mgr	hiredate	sal	comm	deptno
7369	SMITH	CLERK	7902	1980-12-17	800.00	NULL	20
7499	ALLEN	SALESMAN	7698	1981-02-20	1600.00	300.00	30
7521	WARD	SALESMAN	7698	1981-02-22	1250.00	500.00	30
7566	JONES	MANAGER	7839	1981-04-02	2975.00	NULL	20
7654	MARTIN	SALESMAN	7698	1981-09-28	1250.00	1400.00	30
7698	BLAKE	MANAGER	7839	1981-05-01	2850.00	NULL	30
7788	SCOTT	ANALYST	7566	1982-12-09	3000.00	NULL	20
7844	TURNER	SALESMAN	7698	1981-09-08	1500.00	0.00	30
7876	ADAMS	CLERK	7788	1983-01-12	1100.00	NULL	20
7900	JAMES	CLERK	7698	1981-12-03	950.00	NULL	30
7902	FORD	ANALYST	7566	1981-12-03	3000.00	NULL	20

```
mysql> SELECT *
-> FROM emp
-> WHERE deptno IN (10,20,30,40);
```

empno	ename	job	mgr	hiredate	sal	comm	deptno
7369	SMITH	CLERK	7902	1980-12-17	800.00	NULL	20
7499	ALLEN	SALESMAN	7698	1981-02-20	1600.00	300.00	30
7521	WARD	SALESMAN	7698	1981-02-22	1250.00	500.00	30
7566	JONES	MANAGER	7839	1981-04-02	2975.00	NULL	20
7654	MARTIN	SALESMAN	7698	1981-09-28	1250.00	1400.00	30
7698	BLAKE	MANAGER	7839	1981-05-01	2850.00	NULL	30
7782	CLARK	MANAGER	7839	1981-06-09	2450.00	NULL	10
7788	SCOTT	ANALYST	7566	1982-12-09	3000.00	NULL	20
7839	KING	PRESIDENT	NULL	1981-11-17	5000.00	NULL	10
7844	TURNER	SALESMAN	7698	1981-09-08	1500.00	0.00	30
7876	ADAMS	CLERK	7788	1983-01-12	1100.00	NULL	20
7900	JAMES	CLERK	7698	1981-12-03	950.00	NULL	30
7902	FORD	ANALYST	7566	1981-12-03	3000.00	NULL	20
7934	MILLER	CLERK	7782	1982-01-23	1300.00	NULL	10

```
mysql> SELECT *,SAL*12
-> FROM emp
-> WHERE job NOT IN ('analyst','manager');
```

empno	ename	job	mgr	hiredate	sal	comm	deptno	SAL*12
7369	SMITH	CLERK	7902	1980-12-17	800.00	NULL	20	9600.00
7499	ALLEN	SALESMAN	7698	1981-02-20	1600.00	300.00	30	19200.00
7521	WARD	SALESMAN	7698	1981-02-22	1250.00	500.00	30	15000.00
7654	MARTIN	SALESMAN	7698	1981-09-28	1250.00	1400.00	30	15000.00
7839	KING	PRESIDENT	NULL	1981-11-17	5000.00	NULL	10	60000.00
7844	TURNER	SALESMAN	7698	1981-09-08	1500.00	0.00	30	18000.00
7876	ADAMS	CLERK	7788	1983-01-12	1100.00	NULL	20	13200.00
7900	JAMES	CLERK	7698	1981-12-03	950.00	NULL	30	11400.00
7934	MILLER	CLERK	7782	1982-01-23	1300.00	NULL	10	15600.00

```
mysql> select ename,hiredate
-> FROM emp
-> WHERE hiredate BETWEEN '1975-12-31' AND '1987-01-01';
```

ename	hiredate
SMITH	1980-12-17
ALLEN	1981-02-20
WARD	1981-02-22
JONES	1981-04-02
MARTIN	1981-09-28
BLAKE	1981-05-01
CLARK	1981-06-09
SCOTT	1982-12-09
KING	1981-11-17
TURNER	1981-09-08
ADAMS	1983-01-12
JAMES	1981-12-03
FORD	1981-12-03
MILLER	1982-01-23

```
mysql> SELECT *
-> FROM emp
-> WHERE deptno=10 OR deptno=20 OR deptno=30 OR deptno=40;
```

empno	ename	job	mgr	hiredate	sal	comm	deptno
7369	SMITH	CLERK	7902	1980-12-17	800.00	NULL	20
7499	ALLEN	SALESMAN	7698	1981-02-20	1600.00	300.00	30
7521	WARD	SALESMAN	7698	1981-02-22	1250.00	500.00	30
7566	JONES	MANAGER	7839	1981-04-02	2975.00	NULL	20
7654	MARTIN	SALESMAN	7698	1981-09-28	1250.00	1400.00	30
7698	BLAKE	MANAGER	7839	1981-05-01	2850.00	NULL	30
7782	CLARK	MANAGER	7839	1981-06-09	2450.00	NULL	10
7788	SCOTT	ANALYST	7566	1982-12-09	3000.00	NULL	20
7839	KING	PRESIDENT	NULL	1981-11-17	5000.00	NULL	10
7844	TURNER	SALESMAN	7698	1981-09-08	1500.00	0.00	30
7876	ADAMS	CLERK	7788	1983-01-12	1100.00	NULL	20
7900	JAMES	CLERK	7698	1981-12-03	950.00	NULL	30
7902	FORD	ANALYST	7566	1981-12-03	3000.00	NULL	20
7934	MILLER	CLERK	7782	1982-01-23	1300.00	NULL	10

14 rows in set (0.00 sec)

```
mysql> SELECT COUNT(*)  
-> FROM emp  
-> WHERE sal<2000 AND deptno=10;
```

```
+-----+  
| COUNT(*) |  
+-----+  
|          1 |  
+-----+
```

1 row in set (0.04 sec)

```
mysql> SELECT deptno,sal,ename  
-> FROM emp  
-> WHERE sal<2000 AND deptno=10;
```

```
+-----+  
| deptno | sal      | ename |  
+-----+  
|      10 | 1300.00 | MILLER |  
+-----+
```

1 row in set (0.00 sec)

```
mysql> SELECT COUNT(ename)  
-> FROM emp  
-> WHERE sal<2000 AND deptno=10;
```

```
+-----+  
| COUNT(ename) |  
+-----+  
|              1 |  
+-----+
```

1 row in set (0.00 sec)

```
mysql> SELECT SUM(sal),job  
-> FROM emp  
-> GROUP BY job;
```

```
+-----+  
| SUM(sal) | job      |  
+-----+  
| 4150.00 | CLERK    |  
| 5600.00 | SALESMAN |  
| 8275.00 | MANAGER  |  
| 6000.00 | ANALYST  |  
| 5000.00 | PRESIDENT |  
+-----+
```

```
mysql> SELECT COUNT(JOB),JOB
-> FROM emp
-> GROUP BY JOB;
```

COUNT(JOB)	JOB
4	CLERK
4	SALESMAN
3	MANAGER
2	ANALYST
1	PRESIDENT

```
mysql> SELECT AVG(SAL),SAL
-> FROM emp
-> WHERE JOB='MANAGER'
-> GROUP BY SAL;
```

AVG(SAL)	SAL
2975.000000	2975.00
2850.000000	2850.00
2450.000000	2450.00

3 rows in set (0.00 sec)

```
mysql> SELECT SUM(comm)
-> FROM emp
-> WHERE JOB='SALESMAN'
-> ;
```

SUM(comm)
2200.00

```
mysql> SELECT COUNT(*),hiredate
-> FROM emp
-> GROUP BY hiredate;
```

COUNT(*)	hiredate
1	1980-12-17
1	1981-02-20
1	1981-02-22
1	1981-04-02
1	1981-09-28
1	1981-05-01
1	1981-06-09
1	1982-12-09
1	1981-11-17
1	1981-09-08
1	1983-01-12
2	1981-12-03
1	1982-01-23

```
mysql> SELECT SUM(comm),comm
-> FROM emp
-> WHERE JOB='SALESMAN'
-> GROUP BY comm;
```

SUM(comm)	comm
300.00	300.00
500.00	500.00
1400.00	1400.00
0.00	0.00

```
mysql> SELECT SUM(sal),JOB
-> FROM emp
-> GROUP BY JOB
-> HAVING SUM(sal)>5000;
```

SUM(sal)	JOB
5600.00	SALESMAN
8275.00	MANAGER
6000.00	ANALYST



```
mysql> SELECT COUNT(*),deptno
-> FROM emp
-> WHERE job='clerk'
-> GROUP BY deptno
-> HAVING COUNT(*)>=2;
```

COUNT(*)	deptno
2	20

```
mysql> SELECT deptno,AVG(sal)
-> FROM emp
-> GROUP BY deptno
-> HAVING AVG(sal)>2000;
```

deptno	AVG(sal)
20	2175.000000
10	2916.666667

```
mysql> SELECT COUNT(*),job
-> FROM emp
-> WHERE JOB='MANAGER'
-> HAVING COUNT(*)>2;
```

COUNT(*)	job
3	MANAGER

1 row in set (0.00 sec)