

```
MySQL 8.1 Command Line Client
sion for the right syntax to use near 'from employee order by bdate' at line 1
mysql>
mysql>
mysql> select fname, lname from employee order by bdate;
+-----+-----+
| fname | lname |
+-----+-----+
| joyce | English |
| John  | Smith  |
| jaedeok | park  |
| Hunny | park  |
| Hyun  | Baek  |
| James | Berg  |
| Bin   | Hyun  |
| Sang-Hun | kim  |
+-----+-----+
8 rows in set (0.00 sec)

mysql> select fname, lname, bdate from employee order by bdate;
+-----+-----+-----+
| fname | lname | bdate |
+-----+-----+-----+
| joyce | English | 1962-07-31 |
| John  | Smith  | 1980-01-09 |
| jaedeok | park  | 1994-12-10 |
| Hunny | park  | 1994-12-10 |
| Hyun  | Baek  | 1997-10-10 |
| James | Berg  | 1997-11-10 |
| Bin   | Hyun  | 1999-11-11 |
| Sang-Hun | kim  | 2000-12-29 |
+-----+-----+-----+
8 rows in set (0.00 sec)

mysql> select fname, lname, bdate from employee order by bdate desc;
+-----+-----+-----+
| fname | lname | bdate |
+-----+-----+-----+
| Sang-Hun | kim  | 2000-12-29 |
| Bin   | Hyun  | 1999-11-11 |
| James | Berg  | 1997-11-10 |
| Hyun  | Baek  | 1997-10-10 |
| jaedeok | park  | 1994-12-10 |
| Hunny | park  | 1994-12-10 |
| John  | Smith  | 1980-01-09 |
| joyce | English | 1962-07-31 |
+-----+-----+-----+
8 rows in set (0.00 sec)

mysql>
```

```
MySQL 8.1 Command Line Client
+-----+
| Reorganization |      3 | Houston |      5 |
+-----+
3 rows in set (0.00 sec)

mysql> select fname, lname, salary from project, works_on, employee where pno=pnumber and essn=ssn and pname='ProductX';
ERROR 1146 (42S02): Table 'company_ex.employee' doesn't exist
mysql> select fname, lname, salary from project, works_on, employee where pno=pnumber and essn=ssn and pname='ProductX';
+-----+
| fname | lname | salary |
+-----+
| joyce | English | 250 |
| Sang-Hun | kim | 50 |
| James | Berg | 350 |
+-----+
3 rows in set (0.00 sec)

mysql> select * from works_on;
+-----+
| essn | pno | hours |
+-----+
| 11223344 | 1 | 32 |
| 11223344 | 2 | 20 |
| 11223344 | 3 | 32 |
| 1961009 | 1 | 50.5 |
| 1961009 | 2 | 10 |
| 1961009 | 3 | 22 |
| 50187898 | 1 | 27 |
| 54354322 | 1 | 37 |
| 54354322 | 2 | 47 |
| 54354322 | 3 | 30.25 |
+-----+
10 rows in set (0.00 sec)

mysql> select fname, lname, salary, salary*1.05 from project, works_on, employee where pno=pnumber and essn=ssn and pname='ProductX';
+-----+
| fname | lname | salary | salary*1.05 |
+-----+
| joyce | English | 250 | 262.50 |
| Sang-Hun | kim | 50 | 52.50 |
| James | Berg | 350 | 367.50 |
+-----+
3 rows in set (0.00 sec)

mysql> select * from employee;
+-----+
| fname | lname | ssn | bdate | address | sex | salary | superssn | dno |
+-----+
```

```
MySQL 8.1 Command Line Client
+-----+
| Bin    | Hyun   | in_cheon, Korea |
| John   | Smith  | Seoul, Korea    |
+-----+
6 rows in set (0.00 sec)

mysql> select fname, lname, address from employee where address like '%oul%';
+-----+
| fname | lname | address          |
+-----+
| Hunny | park  | seoul, Korea     |
| John  | Smith | Seoul, Korea     |
+-----+
2 rows in set (0.00 sec)

mysql> select fname, lname, address from employee where address like '%oul';
Empty set (0.00 sec)

mysql> select fname, lname, address from employee where address like '%_oul%';
Empty set (0.00 sec)

mysql> select fname, lname, address from employee where address like '%__oul%';
+-----+
| fname | lname | address          |
+-----+
| Hunny | park  | seoul, Korea     |
| John  | Smith | Seoul, Korea     |
+-----+
2 rows in set (0.00 sec)

mysql> select fname, lname, ssn from employee where fname like 'J%';
ERROR 1146 (42S02): Table 'company_ex.employee' doesn't exist
mysql> select fname, lname, ssn from employee where fname like 'J%';
+-----+
| fname | lname | ssn              |
+-----+
| joyce | English | 11223344         |
| jaedeok | park  | 15411541         |
| James | Berg   | 54354322         |
| John  | Smith  | 87654321         |
+-----+
4 rows in set (0.00 sec)

mysql> select * from project;
+-----+
| pname      | pnumber | plocation | dnum |
+-----+
| DB         | 1       | Daejeon   | 1    |
| ProductX   | 2       | Stafford  | 4    |
| Reorganization | 3       | Houston   | 5    |
+-----+
```

```
MySQL 8.1 Command Line Client
+-----+
| John   | Smith | 87654321 | 1980-01-09 | Seoul, Korea | M | 350 | NULL | 1 |
+-----+
8 rows in set (0.00 sec)

mysql> select count(*), avg(salary) from employee group by dno;
+-----+
| count(*) | avg(salary) |
+-----+
| 3        | 166.6667    |
| 3        | 316.6667    |
| 2        | 375.0000    |
+-----+
3 rows in set (0.00 sec)

mysql> select dno, count(*), avg(salary) from employee group by dno;
+-----+
| dno | count(*) | avg(salary) |
+-----+
| 1   | 3        | 166.6667    |
| 4   | 3        | 316.6667    |
| 5   | 2        | 375.0000    |
+-----+
3 rows in set (0.00 sec)

mysql> select fname, lname, address from employee where address= 'Korea';
Empty set (0.00 sec)

mysql> select fname, lname, address from employee where address like '%Korea';
+-----+
| fname | lname | address      |
+-----+
| jaedeok | park | Busan, Korea |
| Hyun   | Baek | cheon-ahn, Korea |
| Hunny  | park | seoul, Korea |
| Sang-Hun | kim | Daejeon, Korea |
| Bin    | Hyun | in_cheon, Korea |
| John   | Smith | Seoul, Korea |
+-----+
6 rows in set (0.00 sec)

mysql> select fname, lname, address from employee where address like '%Korea%';
+-----+
| fname | lname | address      |
+-----+
| jaedeok | park | Busan, Korea |
| Hyun   | Baek | cheon-ahn, Korea |
| Hunny  | park | seoul, Korea |
| Sang-Hun | kim | Daejeon, Korea |
| Bin    | Hyun | in_cheon, Korea |
+-----+
```

```
MySQL 8.1 Command Line Client
mysql> select count(*) from employee;
+-----+
| count(*) |
+-----+
|      8 |
+-----+
1 row in set (0.00 sec)

mysql> select count(*) from employee where salary>300;;
+-----+
| count(*) |
+-----+
|      3 |
+-----+
1 row in set (0.00 sec)

ERROR:
No query specified

mysql> select * from department;
+-----+-----+-----+-----+
| dname          | dnumber | mgrssn | mgr_st_date |
+-----+-----+-----+-----+
| Computer Engineering |      1 | 1961009 | 2023-10-21 |
| Admin          |      4 | 54354322 | 2013-05-01 |
| Research       |      5 | 11223344 | 2013-01-01 |
+-----+-----+-----+-----+
3 rows in set (0.00 sec)

mysql> select count(*) from employee, department where dno=dnumber and dname='Research';
+-----+
| count(*) |
+-----+
|      8 |
+-----+
1 row in set (0.00 sec)

mysql> select * from employee;
+-----+-----+-----+-----+-----+-----+-----+-----+
| fname | lname | ssn   | bdate   | address          | sex | salary | superssn | dno |
+-----+-----+-----+-----+-----+-----+-----+-----+
| joyce | English | 11223344 | 1962-07-31 | Rice,Houston,Tx | F   | 250    | 1961009 | 5   |
| jaedeok | park | 15411541 | 1994-12-10 | Busan, Korea    | M   | 100    | NULL    | 1   |
| Hyun | Baek | 15417898 | 1997-10-10 | cheon-ahn, Korea | M   | 500    | NULL    | 5   |
| Hunny | park | 15468798 | 1994-12-10 | seoul, Korea    | M   | 300    | NULL    | 4   |
| Sang-Hun | kim | 1961009 | 2000-12-29 | Daejeon, Korea  | M   | 50     | NULL    | 1   |
| Bin | Hyun | 50187898 | 1999-11-11 | in_cheon, Korea | M   | 300    | NULL    | 4   |
| James | Berg | 54354322 | 1997-11-10 | Castle, Spring, Tx | M   | 350    | NULL    | 4   |
| John | Smith | 87654321 | 1980-01-09 | Seoul, Korea    | M   | 350    | NULL    | 1   |
```

```
MySQL 8.1 Command Line Client
+-----+-----+
| fname | lname |
+-----+-----+
| jaedeok | park |
| Hyun | Baek |
| Hunny | park |
| Sang-Hun | kim |
| Bin | Hyun |
| James | Berg |
| John | Smith |
+-----+-----+
7 rows in set (0.00 sec)

mysql> select max(salary) from employee;
+-----+
| max(salary) |
+-----+
|          500 |
+-----+
1 row in set (0.00 sec)

mysql> select min(salary) from employee;
+-----+
| min(salary) |
+-----+
|           50 |
+-----+
1 row in set (0.00 sec)

mysql> select avg(salary) from employee;
+-----+
| avg(salary) |
+-----+
|    275.0000 |
+-----+
1 row in set (0.00 sec)

mysql> select min(salary), max(salary), avg(salary) from employee;
+-----+-----+-----+
| min(salary) | max(salary) | avg(salary) |
+-----+-----+-----+
|          50 |          500 |    275.0000 |
+-----+-----+-----+
1 row in set (0.00 sec)

mysql> select * count(*) from employee;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'count(*) from employee' at line 1
mysql> select count(*) from employee;
```

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MySQL 8.1 Command Line Client
28 rows in set (0.00 sec)

mysql> select fname, lname, ssn from works_on, employee where essn=ssn and (pno=1 or pno=2);
+-----+-----+-----+
| fname | lname | ssn |
+-----+-----+-----+
| joyce | English | 11223344 |
| joyce | English | 11223344 |
| Sang-Hun | kim | 1961009 |
| Sang-Hun | kim | 1961009 |
| Bin | Hyun | 50187898 |
| James | Berg | 54354322 |
| James | Berg | 54354322 |
+-----+-----+-----+
7 rows in set (0.00 sec)

mysql> select fname, lname, ssn from works_on, employee where essn=ssn and pno in (1,2);
ERROR 1305 (42000): FUNCTION company_ex.pno in does not exist
mysql> select fname, lname, ssn from works_on, employee where essn=ssn and pno in (1,2);
+-----+-----+-----+
| fname | lname | ssn |
+-----+-----+-----+
| joyce | English | 11223344 |
| joyce | English | 11223344 |
| Sang-Hun | kim | 1961009 |
| Sang-Hun | kim | 1961009 |
| Bin | Hyun | 50187898 |
| James | Berg | 54354322 |
| James | Berg | 54354322 |
+-----+-----+-----+
7 rows in set (0.00 sec)

mysql> select * from employee;
+-----+-----+-----+-----+-----+-----+-----+-----+
| fname | lname | ssn | bdate | address | sex | salary | superssn | dno |
+-----+-----+-----+-----+-----+-----+-----+-----+
| joyce | English | 11223344 | 1962-07-31 | Rice, Houston, Tx | F | 250 | 1961009 | 5 |
| jaedeok | park | 15411541 | 1994-12-10 | Busan, Korea | M | 100 | NULL | 1 |
| Hyun | Baek | 15417898 | 1997-10-10 | cheon-ahn, Korea | M | 500 | NULL | 5 |
| Hunny | park | 15468798 | 1994-12-10 | seoul, Korea | M | 300 | NULL | 4 |
| Sang-Hun | kim | 1961009 | 2000-12-29 | Daejeon, Korea | M | 50 | NULL | 1 |
| Bin | Hyun | 50187898 | 1999-11-11 | in_cheon, Korea | M | 300 | NULL | 4 |
| James | Berg | 54354322 | 1997-11-10 | Castle, Spring, Tx | M | 350 | NULL | 4 |
| John | Smith | 87654321 | 1980-01-09 | Seoul, Korea | M | 350 | NULL | 1 |
+-----+-----+-----+-----+-----+-----+-----+-----+
8 rows in set (0.00 sec)

mysql> select fname, lname from employee where superssn is NULL;
+-----+-----+
| fname | lname |
+-----+-----+
| jaedeok | park |
| Hyun | Baek |
| Hunny | park |
| Sang-Hun | kim |
| Bin | Hyun |
| John | Smith |
+-----+-----+
```

```
MySQL 8.1 Command Line Client
+-----+
| Admin      |      4 | 54354322 | 2013-05-01 |
| Research   |      5 | 11223344 | 2013-01-01 |
+-----+
3 rows in set (0.00 sec)

mysql> select * from employee;
+-----+-----+-----+-----+-----+-----+-----+-----+
| fname | lname | ssn    | bdate      | address          | sex | salary | superssn | dno |
+-----+-----+-----+-----+-----+-----+-----+-----+
| joyce  | English | 11223344 | 1962-07-31 | Rice,Houston,Tx | F   | 250    | 1961009 | 5   |
| jaedeok | park    | 15411541 | 1994-12-10 | Busan, Korea    | M   | 100    | NULL    | 1   |
| Hyun   | Baek    | 15417898 | 1997-10-10 | cheon-ahn, Korea | M   | 500    | NULL    | 5   |
| Hunny  | park    | 15468798 | 1994-12-10 | seoul, Korea     | M   | 300    | NULL    | 4   |
| Sang-Hun | kim    | 1961009  | 2000-12-29 | Daejeon, Korea  | M   | 50     | NULL    | 1   |
| Bin    | Hyun    | 50187898 | 1999-11-11 | in_cheon, Korea  | M   | 300    | NULL    | 4   |
| James  | Berg    | 54354322 | 1997-11-10 | Castle, Spring, Tx | M   | 350    | NULL    | 4   |
| John   | Smith   | 87654321 | 1980-01-09 | Seoul, Korea     | M   | 350    | NULL    | 1   |
+-----+-----+-----+-----+-----+-----+-----+-----+
8 rows in set (0.00 sec)

mysql> select E.fname, E.lname, S.fname, S.lname from employee E, employee S where E.superssn=S.ssn;
+-----+-----+-----+-----+
| fname | lname | fname | lname |
+-----+-----+-----+-----+
| joyce | English | Sang-Hun | kim |
+-----+-----+-----+-----+
1 row in set (0.00 sec)

mysql> select salary from employee;
+-----+
| salary |
+-----+
| 250 |
| 100 |
| 500 |
| 300 |
| 50 |
| 300 |
| 350 |
| 350 |
+-----+
8 rows in set (0.00 sec)

mysql> select distinct salary from employee;
+-----+
| salary |
+-----+
| 250 |
| 100 |
+-----+
```



```
MySQL 8.1 Command Line Client
mysql> select fname, lname, bdate from project, department, employee
-> where dnum = dnumber
-> and mgrssn = ssn
-> and plocation = 'Daejeon';
+-----+-----+-----+
| fname | lname | bdate |
+-----+-----+-----+
| Sang-Hun | kim | 2000-12-29 |
+-----+-----+-----+
1 row in set (0.00 sec)

mysql> select * from project;
+-----+-----+-----+-----+
| pname | pnumber | plocation | dnum |
+-----+-----+-----+-----+
| DB | 1 | Daejeon | 1 |
| ProductX | 2 | Stafford | 4 |
| Reorganization | 3 | Houston | 5 |
+-----+-----+-----+-----+
3 rows in set (0.00 sec)

mysql> select * from department;
+-----+-----+-----+-----+
| dname | dnumber | mgrssn | mgr_st_date |
+-----+-----+-----+-----+
| Computer Engineering | 1 | 1961009 | 2023-10-21 |
| Admin | 4 | 54354322 | 2013-05-01 |
| Research | 5 | 11223344 | 2013-01-01 |
+-----+-----+-----+-----+
3 rows in set (0.00 sec)

mysql> select * from employee;
+-----+-----+-----+-----+-----+-----+-----+-----+
| fname | lname | ssn | bdate | address | sex | salary | superssn | dno |
+-----+-----+-----+-----+-----+-----+-----+-----+
| joyce | English | 11223344 | 1962-07-31 | Rice, Houston, Tx | F | 250 | 1961009 | 5 |
| jaedeok | park | 15411541 | 1994-12-10 | Busan, Korea | M | 100 | NULL | 1 |
| Hyun | Baek | 15417898 | 1997-10-10 | cheon-ahn, Korea | M | 500 | NULL | 5 |
| Hunny | park | 15468798 | 1994-12-10 | seoul, Korea | M | 300 | NULL | 4 |
| Sang-Hun | kim | 1961009 | 2000-12-29 | Daejeon, Korea | M | 50 | NULL | 1 |
| Bin | Hyun | 50187898 | 1999-11-11 | in_cheon, Korea | M | 300 | NULL | 4 |
| James | Berg | 54354322 | 1997-11-10 | Castle, Spring, Tx | M | 350 | NULL | 4 |
| John | Smith | 87654321 | 1980-01-09 | Seoul, Korea | M | 350 | NULL | 1 |
+-----+-----+-----+-----+-----+-----+-----+-----+
8 rows in set (0.00 sec)

mysql> select E.fname, E.lname, S.fname, S.lname from employee E, employee S where E.superssn=S.ssn;
+-----+-----+-----+-----+
| E.fname | E.lname | S.fname | S.lname |
+-----+-----+-----+-----+
+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

```
MySQL 8.1 Command Line Client
+-----+
8 rows in set (0.00 sec)

mysql> select fname, lname, address, dno, dnumber, dname from employee, department where dno=dnumber;
+-----+
| fname | lname | address | dno | dnumber | dname |
+-----+
| jaedeok | park | Busan, Korea | 1 | 1 | Computer Engineering |
| Sang-Hun | kim | Daejeon, Korea | 1 | 1 | Computer Engineering |
| John | Smith | Seoul, Korea | 1 | 1 | Computer Engineering |
| Hunny | park | seoul, Korea | 4 | 4 | Admin |
| Bin | Hyun | in_cheon, Korea | 4 | 4 | Admin |
| James | Berg | Castle, Spring, Tx | 4 | 4 | Admin |
| joyce | English | Rice, Houston, Tx | 5 | 5 | Research |
| Hyun | Baek | cheon-ahn, Korea | 5 | 5 | Research |
+-----+
8 rows in set (0.00 sec)

mysql> select fname, lname, address, dno, dnumber, dname from employee, department where dno=dnumber and dname='Computer Engineering';
+-----+
| fname | lname | address | dno | dnumber | dname |
+-----+
| jaedeok | park | Busan, Korea | 1 | 1 | Computer Engineering |
| Sang-Hun | kim | Daejeon, Korea | 1 | 1 | Computer Engineering |
| John | Smith | Seoul, Korea | 1 | 1 | Computer Engineering |
+-----+
3 rows in set (0.00 sec)

mysql> select fname, lname, address from employee, department where dno=dnumber and dname='Computer Engineering';
+-----+
| fname | lname | address |
+-----+
| jaedeok | park | Busan, Korea |
| Sang-Hun | kim | Daejeon, Korea |
| John | Smith | Seoul, Korea |
+-----+
3 rows in set (0.00 sec)

mysql> select * from project;
+-----+
| pname | pnumber | plocation | dnum |
+-----+
| DB | 1 | Daejeon | 1 |
| ProductX | 2 | Stafford | 4 |
| Reorganization | 3 | Houston | 5 |
+-----+
3 rows in set (0.00 sec)
```

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MySQL 8.1 Command Line Client
mysql> select * from employee, where dno=dnumber;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'where dno=dnumber' at line 1
mysql> select * from employee, department where dno=dnumber;
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| fname | lname | ssn | bdate | address | sex | salary | superssn | dno | dname |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| jaedeok | park | 15411541 | 1994-12-18 | Busan, Korea | M | 100 | NULL | 1 | Computer Engin | |
| eering | 1 | 1961009 | 2023-10-21 | | | | | | | |
| Sang-Hun | kim | 1961009 | 2000-12-29 | Daejeon, Korea | M | 50 | NULL | 1 | Computer Engin |
| eering | 1 | 1961009 | 2023-10-21 | | | | | | | |
| John | Smith | 87654321 | 1980-01-09 | Seoul, Korea | M | 350 | NULL | 1 | Computer Engin |
| eering | 1 | 1961009 | 2023-10-21 | | | | | | | |
| Hunny | park | 15468798 | 1994-12-18 | seoul, Korea | M | 300 | NULL | 4 | Admin |
| | 4 | 54354322 | 2013-05-01 | | | | | | | |
| Bin | Hyun | 50187898 | 1999-11-11 | in_cheon, Korea | M | 300 | NULL | 4 | Admin |
| | 4 | 54354322 | 2013-05-01 | | | | | | | |
| James | Berg | 54354322 | 1997-11-18 | Castle, Spring, Tx | M | 350 | NULL | 4 | Admin |
| | 4 | 54354322 | 2013-05-01 | | | | | | | |
| joyce | English | 11223344 | 1962-07-31 | Rice,Houston,Tx | F | 250 | 1961009 | 5 | Research |
| | 5 | 11223344 | 2013-01-01 | | | | | | | |
| Hyun | Baek | 15417898 | 1997-10-18 | cheon-ahn, Korea | M | 500 | NULL | 5 | Research |
| | 5 | 11223344 | 2013-01-01 | | | | | | | |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
8 rows in set (0.00 sec)

mysql> select * fname, lname, address,dno, dnumber from employee, department where dno=dnumber;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'fname, lname, address,dno, dnumber from employee, department where dno=dnumber' at line 1
mysql> select * fname, lname, address,dno, dnumber from employee, department where dno=dnumber;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'fname, lname, address,dno, dnumber from employee, department where dno=dnumber' at line 1
mysql> select fname, lname, address,dno, dnumber from employee, department where dno=dnumber;
+-----+-----+-----+-----+-----+
| fname | lname | address | dno | dnumber |
+-----+-----+-----+-----+-----+
| joyce | English | Rice,Houston,Tx | 5 | 5 |
| Hyun | Baek | cheon-ahn, Korea | 5 | 5 |
| jaedeok | park | Busan, Korea | 1 | 1 |
| Sang-Hun | kim | Daejeon, Korea | 1 | 1 |
| John | Smith | Seoul, Korea | 1 | 1 |
| Hunny | park | seoul, Korea | 4 | 4 |

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```
MySQL 8.1 Command Line Client
Query OK, 1 row affected (0.00 sec)

mysql> select * from employee, department;
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| fname | lname | ssn | bdate | address | sex | salary | superssn | dno | dname |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| joyce | English | 11223344 | 1962-07-31 | Rice,Houston,Tx | F | 250 | 1961009 | 5 | Research |
| 5 | 11223344 | 2013-01-01 | | | | | | | |
| joyce | English | 11223344 | 1962-07-31 | Rice,Houston,Tx | F | 250 | 1961009 | 5 | Admin |
| 4 | 54354322 | 2013-05-01 | | | | | | | |
| joyce | English | 11223344 | 1962-07-31 | Rice,Houston,Tx | F | 250 | 1961009 | 5 | Computer Engin |
| 1 | 1961009 | 2023-10-21 | | | | | | | |
| jaedeok | park | 15411541 | 1994-12-10 | Busan, Korea | M | 100 | NULL | 1 | Research |
| 5 | 11223344 | 2013-01-01 | | | | | | | |
| jaedeok | park | 15411541 | 1994-12-10 | Busan, Korea | M | 100 | NULL | 1 | Admin |
| 4 | 54354322 | 2013-05-01 | | | | | | | |
| jaedeok | park | 15411541 | 1994-12-10 | Busan, Korea | M | 100 | NULL | 1 | Computer Engin |
| 1 | 1961009 | 2023-10-21 | | | | | | | |
| Hyun | Baek | 15417898 | 1997-10-10 | cheon-ahn, Korea | M | 500 | NULL | 5 | Research |
| 5 | 11223344 | 2013-01-01 | | | | | | | |
| Hyun | Baek | 15417898 | 1997-10-10 | cheon-ahn, Korea | M | 500 | NULL | 5 | Admin |
| 4 | 54354322 | 2013-05-01 | | | | | | | |
| Hyun | Baek | 15417898 | 1997-10-10 | cheon-ahn, Korea | M | 500 | NULL | 5 | Computer Engin |
| 1 | 1961009 | 2023-10-21 | | | | | | | |
| Hunny | park | 15468798 | 1994-12-10 | seoul, Korea | M | 300 | NULL | 4 | Research |
| 5 | 11223344 | 2013-01-01 | | | | | | | |
| Hunny | park | 15468798 | 1994-12-10 | seoul, Korea | M | 300 | NULL | 4 | Admin |
| 4 | 54354322 | 2013-05-01 | | | | | | | |
| Hunny | park | 15468798 | 1994-12-10 | seoul, Korea | M | 300 | NULL | 4 | Computer Engin |
| 1 | 1961009 | 2023-10-21 | | | | | | | |
| Sang-Hun | kim | 1961009 | 2000-12-29 | Daejeon, Korea | M | 50 | NULL | 1 | Research |
| 5 | 11223344 | 2013-01-01 | | | | | | | |
| Sang-Hun | kim | 1961009 | 2000-12-29 | Daejeon, Korea | M | 50 | NULL | 1 | Admin |
| 4 | 54354322 | 2013-05-01 | | | | | | | |
| Sang-Hun | kim | 1961009 | 2000-12-29 | Daejeon, Korea | M | 50 | NULL | 1 | Computer Engin |
| 1 | 1961009 | 2023-10-21 | | | | | | | |
| Bin | Hyun | 50187898 | 1999-11-11 | in_cheon, Korea | M | 300 | NULL | 4 | Research |
| 5 | 11223344 | 2013-01-01 | | | | | | | |
| Bin | Hyun | 50187898 | 1999-11-11 | in_cheon, Korea | M | 300 | NULL | 4 | Admin |
| 4 | 54354322 | 2013-05-01 | | | | | | | |
| Bin | Hyun | 50187898 | 1999-11-11 | in_cheon, Korea | M | 300 | NULL | 4 | Computer Engin |
| 1 | 1961009 | 2023-10-21 | | | | | | | |
| James | Berg | 54354322 | 1997-11-10 | Castle, Spring, Tx | M | 350 | NULL | 4 | Research |
| 5 | 11223344 | 2013-01-01 | | | | | | | |
| James | Berg | 54354322 | 1997-11-10 | Castle, Spring, Tx | M | 350 | NULL | 4 | Admin |
| 4 | 54354322 | 2013-05-01 | | | | | | | |
```

```
MySQL 8.1 Command Line Client
+-----+
| 11223344 | Boe       | M   | 2010-12-06 | daughter |
| 1961009  | Byun      | F   | 2010-12-11 | daughter |
| 1961009  | Eilse     | F   | 2011-05-06 | daughter |
+-----+
4 rows in set (0.00 sec)

mysql> select 8 from project;
+-----+
| 8 |
+-----+
| 8 |
| 8 |
| 8 |
+-----+
3 rows in set (0.00 sec)

mysql> select * from project;
+-----+
| pname      | pnumber | plocation | dnum |
+-----+
| DB         | 1       | Daejeon   | 1     |
| ProductX   | 2       | Stafford  | 4     |
| Reorganization | 3     | Houston   | 5     |
+-----+
3 rows in set (0.00 sec)

mysql> select * from dept_locations;
+-----+
| dnumber | dlocation
+-----+
| 1       | Pai Chai University, Daejeon, Korea |
| 4       | Stafford
| 5       | Houston
| 5       | Sugarland
+-----+
4 rows in set (0.00 sec)

mysql> select * from works_on;
+-----+
| essn      | pno | hours |
+-----+
| 11223344  | 1   | 32    |
| 11223344  | 2   | 20    |
| 11223344  | 3   | 32    |
| 1961009    | 1   | 50.5  |
| 1961009    | 2   | 10    |
| 1961009    | 3   | 22    |
| 50187898   | 1   | 27    |
| 54354322   | 1   | 37    |
+-----+
```

```
MySQL 8.1 Command Line Client
mysql> show tavles;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'tavles' at line 1
mysql> show tables;
+-----+
| Tables_in_company_ex |
+-----+
| department            |
| dependent              |
| dept_locations        |
| employee              |
| project               |
| works_on              |
+-----+
6 rows in set (0.00 sec)

mysql> select * from employee;
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| fname | lname | ssn   | bdate | address          | sex | salary | superssn | dno |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| joyce | English | 11223344 | 1962-07-31 | Rice, Houston, Tx | F   | 250    | 1961009  | 5   |
| jaedeok | park   | 15411541 | 1994-12-10 | Busan, Korea      | M   | 100    | NULL     | 1   |
| Hyun  | Baek   | 15417898 | 1997-10-10 | cheon-ahn, Korea  | M   | 500    | NULL     | 5   |
| Hunny | park   | 15468798 | 1994-12-10 | seoul, Korea      | M   | 300    | NULL     | 4   |
| Sang-Hun | kim   | 1961009  | 2000-12-29 | Daejeon, Korea    | M   | 50     | NULL     | 1   |
| Bin   | Hyun   | 50187898 | 1999-11-11 | in_cheon, Korea   | M   | 300    | NULL     | 4   |
| James | Berg   | 54354322 | 1997-11-10 | Castle, Spring, Tx | M   | 350    | NULL     | 4   |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
7 rows in set (0.00 sec)

mysql> select * from deptment;
ERROR 1146 (42S02): Table 'company_ex.deptment' doesn't exist
mysql> select * from department;
+-----+-----+-----+-----+
| dname | dnumber | mgrssn | mgr_st_date |
+-----+-----+-----+-----+
| Computer Engineering | 1 | 1961009 | 2023-10-21 |
| Admin | 4 | 54354322 | 2013-05-01 |
| Research | 5 | 11223344 | 2013-01-01 |
+-----+-----+-----+-----+
3 rows in set (0.00 sec)

mysql> select * from dependent;
+-----+-----+-----+-----+-----+
| essn | dependent_name | sex | bdate | relationship |
+-----+-----+-----+-----+-----+
| 11223344 | Alice | F | 2010-04-06 | daughter |
| 11223344 | Boe | M | 2010-12-06 | daughter |
```