use admindb;

Reading table information for completion of table and column names

You can turn off this feature to get a quicker startup with -A

Database changed

mysql> select \* from employee;

+------+-------+--------+------------+

| eno | ename | salary | DOJ |

+------+-------+--------+------------+

| 100 | rahul | 165156 | 2024-05-12 |

| 200 | rahul | 165156 | 2020-02-12 |

| 300 | yash | 45000 | 2020-03-16 |

| NULL | sandy | 84623 | 2024-01-19 |

+------+-------+--------+------------+

4 rows in set (0.01 sec)

mysql> show tables;

+-------------------+

| Tables\_in\_admindb |

+-------------------+

| DEPT |

| EMP |

| child |

| employee |

| newemp |

| order\_tbl |

| p1 |

| parent |

| student |

+-------------------+

9 rows in set (0.00 sec)

mysql> select \* from newemp;

+------+---------+--------+------------+

| eno | ename | salary | DOJ |

+------+---------+--------+------------+

| 107 | Pranav | 70000 | 2022-04-23 |

| 200 | deekshi | 85000 | 2007-04-14 |

| 300 | yash | 50000 | 2024-06-19 |

+------+---------+--------+------------+

3 rows in set (0.01 sec)

mysql> select \* from employee union select \* from newemp;

+------+---------+--------+------------+

| eno | ename | salary | DOJ |

+------+---------+--------+------------+

| 100 | rahul | 165156 | 2024-05-12 |

| 200 | rahul | 165156 | 2020-02-12 |

| 300 | yash | 45000 | 2020-03-16 |

| NULL | sandy | 84623 | 2024-01-19 |

| 107 | Pranav | 70000 | 2022-04-23 |

| 200 | deekshi | 85000 | 2007-04-14 |

| 300 | yash | 50000 | 2024-06-19 |

+------+---------+--------+------------+

7 rows in set (0.00 sec)

mysql> select \* from employee union all select \* from newemp;

+------+---------+--------+------------+

| eno | ename | salary | DOJ |

+------+---------+--------+------------+

| 100 | rahul | 165156 | 2024-05-12 |

| 200 | rahul | 165156 | 2020-02-12 |

| 300 | yash | 45000 | 2020-03-16 |

| NULL | sandy | 84623 | 2024-01-19 |

| 107 | Pranav | 70000 | 2022-04-23 |

| 200 | deekshi | 85000 | 2007-04-14 |

| 300 | yash | 50000 | 2024-06-19 |

+------+---------+--------+------------+

7 rows in set (0.01 sec)

mysql> select \* from employee except select \* from newemp;

+------+-------+--------+------------+

| eno | ename | salary | DOJ |

+------+-------+--------+------------+

| 100 | rahul | 165156 | 2024-05-12 |

| 200 | rahul | 165156 | 2020-02-12 |

| 300 | yash | 45000 | 2020-03-16 |

| NULL | sandy | 84623 | 2024-01-19 |

+------+-------+--------+------------+

4 rows in set (0.00 sec)

mysql> select \* from EMP;

+-------+--------+-----------+------+------------+------+------+--------+

| EMPNO | ENAME | JOB | MGR | HIREDATE | SAL | COMM | DEPTNO |

+-------+--------+-----------+------+------------+------+------+--------+

| 7369 | SMITH | CLERK | 7902 | 1980-12-17 | 800 | NULL | 20 |

| 7499 | ALLEN | SALESMAN | 7698 | 1981-02-20 | 1600 | 300 | 30 |

| 7521 | WARD | SALESMAN | 7698 | 1981-02-22 | 1250 | 500 | 30 |

| 7566 | JONES | MANAGER | 7839 | 1981-04-02 | 2975 | NULL | 20 |

| 7654 | MARTIN | SALESMAN | 7698 | 1981-09-28 | 1250 | 1400 | 30 |

| 7698 | BLAKE | MANAGER | 7839 | 1981-05-01 | 2850 | NULL | 30 |

| 7782 | CLARK | MANAGER | 7839 | 1981-06-09 | 2450 | NULL | 10 |

| 7788 | SCOTT | ANALYST | 7566 | 1982-12-09 | 3000 | NULL | 20 |

| 7839 | KING | PRESIDENT | NULL | 1981-11-17 | 5000 | NULL | 10 |

| 7844 | TURNER | SALESMAN | 7698 | 1981-09-08 | 1500 | 0 | 30 |

| 7876 | ADAMS | CLERK | 7788 | 1983-01-12 | 1100 | NULL | 20 |

| 7900 | JAMES | CLERK | 7698 | 1981-12-03 | 950 | NULL | 30 |

| 7902 | FORD | ANALYST | 7566 | 1981-12-03 | 3000 | NULL | 20 |

| 7934 | MILLER | CLERK | 7782 | 1982-01-23 | 1300 | NULL | 10 |

+-------+--------+-----------+------+------------+------+------+--------+

14 rows in set (0.00 sec)

mysql> select \* from DEPT;

+--------+------------+----------+

| DEPTNO | DNAME | LOC |

+--------+------------+----------+

| 10 | ACCOUNTING | NEW YORK |

| 20 | RESEARCH | DALLAS |

| 30 | SALES | CHICAGO |

| 40 | OPERATIONS | BOSTON |

+--------+------------+----------+

4 rows in set (0.01 sec)

mysql> select empno,ename,dname,e.deptno from EMP e,DEPT d where e.deptno = d.deptno;

+-------+--------+------------+--------+

| empno | ename | dname | deptno |

+-------+--------+------------+--------+

| 7369 | SMITH | RESEARCH | 20 |

| 7499 | ALLEN | SALES | 30 |

| 7521 | WARD | SALES | 30 |

| 7566 | JONES | RESEARCH | 20 |

| 7654 | MARTIN | SALES | 30 |

| 7698 | BLAKE | SALES | 30 |

| 7782 | CLARK | ACCOUNTING | 10 |

| 7788 | SCOTT | RESEARCH | 20 |

| 7839 | KING | ACCOUNTING | 10 |

| 7844 | TURNER | SALES | 30 |

| 7876 | ADAMS | RESEARCH | 20 |

| 7900 | JAMES | SALES | 30 |

| 7902 | FORD | RESEARCH | 20 |

| 7934 | MILLER | ACCOUNTING | 10 |

+-------+--------+------------+--------+

14 rows in set (0.00 sec)

mysql> select empno,ename,dname,e.deptno from EMP e join DEPT d on(e.deptno = d.deptno);

+-------+--------+------------+--------+

| empno | ename | dname | deptno |

+-------+--------+------------+--------+

| 7369 | SMITH | RESEARCH | 20 |

| 7499 | ALLEN | SALES | 30 |

| 7521 | WARD | SALES | 30 |

| 7566 | JONES | RESEARCH | 20 |

| 7654 | MARTIN | SALES | 30 |

| 7698 | BLAKE | SALES | 30 |

| 7782 | CLARK | ACCOUNTING | 10 |

| 7788 | SCOTT | RESEARCH | 20 |

| 7839 | KING | ACCOUNTING | 10 |

| 7844 | TURNER | SALES | 30 |

| 7876 | ADAMS | RESEARCH | 20 |

| 7900 | JAMES | SALES | 30 |

| 7902 | FORD | RESEARCH | 20 |

| 7934 | MILLER | ACCOUNTING | 10 |

+-------+--------+------------+--------+

14 rows in set (0.00 sec)

mysql> select empno,ename,dname,e.deptno from EMP e join DEPT d using (deptno);

+-------+--------+------------+--------+

| empno | ename | dname | deptno |

+-------+--------+------------+--------+

| 7369 | SMITH | RESEARCH | 20 |

| 7499 | ALLEN | SALES | 30 |

| 7521 | WARD | SALES | 30 |

| 7566 | JONES | RESEARCH | 20 |

| 7654 | MARTIN | SALES | 30 |

| 7698 | BLAKE | SALES | 30 |

| 7782 | CLARK | ACCOUNTING | 10 |

| 7788 | SCOTT | RESEARCH | 20 |

| 7839 | KING | ACCOUNTING | 10 |

| 7844 | TURNER | SALES | 30 |

| 7876 | ADAMS | RESEARCH | 20 |

| 7900 | JAMES | SALES | 30 |

| 7902 | FORD | RESEARCH | 20 |

| 7934 | MILLER | ACCOUNTING | 10 |

+-------+--------+------------+--------+

14 rows in set (0.00 sec)

mysql> select empno,ename,dname,deptno from EMP natural join DEPT;

+-------+--------+------------+--------+

| empno | ename | dname | deptno |

+-------+--------+------------+--------+

| 7369 | SMITH | RESEARCH | 20 |

| 7499 | ALLEN | SALES | 30 |

| 7521 | WARD | SALES | 30 |

| 7566 | JONES | RESEARCH | 20 |

| 7654 | MARTIN | SALES | 30 |

| 7698 | BLAKE | SALES | 30 |

| 7782 | CLARK | ACCOUNTING | 10 |

| 7788 | SCOTT | RESEARCH | 20 |

| 7839 | KING | ACCOUNTING | 10 |

| 7844 | TURNER | SALES | 30 |

| 7876 | ADAMS | RESEARCH | 20 |

| 7900 | JAMES | SALES | 30 |

| 7902 | FORD | RESEARCH | 20 |

| 7934 | MILLER | ACCOUNTING | 10 |

+-------+--------+------------+--------+

14 rows in set (0.00 sec)

mysql> select empno,ename,dname,e.deptno from EMP inner join DEPT using (deptno);

ERROR 1054 (42S22): Unknown column 'e.deptno' in 'field list'

mysql> select empno,ename,dname,deptno from EMP inner join DEPT using (deptno);

+-------+--------+------------+--------+

| empno | ename | dname | deptno |

+-------+--------+------------+--------+

| 7369 | SMITH | RESEARCH | 20 |

| 7499 | ALLEN | SALES | 30 |

| 7521 | WARD | SALES | 30 |

| 7566 | JONES | RESEARCH | 20 |

| 7654 | MARTIN | SALES | 30 |

| 7698 | BLAKE | SALES | 30 |

| 7782 | CLARK | ACCOUNTING | 10 |

| 7788 | SCOTT | RESEARCH | 20 |

| 7839 | KING | ACCOUNTING | 10 |

| 7844 | TURNER | SALES | 30 |

| 7876 | ADAMS | RESEARCH | 20 |

| 7900 | JAMES | SALES | 30 |

| 7902 | FORD | RESEARCH | 20 |

| 7934 | MILLER | ACCOUNTING | 10 |

+-------+--------+------------+--------+

14 rows in set (0.01 sec)

mysql> select empno,ename,dname,emp.deptno from EMP cross join DEPT;

ERROR 1054 (42S22): Unknown column 'emp.deptno' in 'field list'

mysql> select empno,ename,dname,deptno from EMP cross join DEPT;

ERROR 1052 (23000): Column 'deptno' in field list is ambiguous

mysql> select empno,ename,dname,EMP.deptno from EMP cross join DEPT;

+-------+--------+------------+--------+

| empno | ename | dname | deptno |

+-------+--------+------------+--------+

| 7369 | SMITH | OPERATIONS | 20 |

| 7369 | SMITH | SALES | 20 |

| 7369 | SMITH | RESEARCH | 20 |

| 7369 | SMITH | ACCOUNTING | 20 |

| 7499 | ALLEN | OPERATIONS | 30 |

| 7499 | ALLEN | SALES | 30 |

| 7499 | ALLEN | RESEARCH | 30 |

| 7499 | ALLEN | ACCOUNTING | 30 |

| 7521 | WARD | OPERATIONS | 30 |

| 7521 | WARD | SALES | 30 |

| 7521 | WARD | RESEARCH | 30 |

| 7521 | WARD | ACCOUNTING | 30 |

| 7566 | JONES | OPERATIONS | 20 |

| 7566 | JONES | SALES | 20 |

| 7566 | JONES | RESEARCH | 20 |

| 7566 | JONES | ACCOUNTING | 20 |

| 7654 | MARTIN | OPERATIONS | 30 |

| 7654 | MARTIN | SALES | 30 |

| 7654 | MARTIN | RESEARCH | 30 |

| 7654 | MARTIN | ACCOUNTING | 30 |

| 7698 | BLAKE | OPERATIONS | 30 |

| 7698 | BLAKE | SALES | 30 |

| 7698 | BLAKE | RESEARCH | 30 |

| 7698 | BLAKE | ACCOUNTING | 30 |

| 7782 | CLARK | OPERATIONS | 10 |

| 7782 | CLARK | SALES | 10 |

| 7782 | CLARK | RESEARCH | 10 |

| 7782 | CLARK | ACCOUNTING | 10 |

| 7788 | SCOTT | OPERATIONS | 20 |

| 7788 | SCOTT | SALES | 20 |

| 7788 | SCOTT | RESEARCH | 20 |

| 7788 | SCOTT | ACCOUNTING | 20 |

| 7839 | KING | OPERATIONS | 10 |

| 7839 | KING | SALES | 10 |

| 7839 | KING | RESEARCH | 10 |

| 7839 | KING | ACCOUNTING | 10 |

| 7844 | TURNER | OPERATIONS | 30 |

| 7844 | TURNER | SALES | 30 |

| 7844 | TURNER | RESEARCH | 30 |

| 7844 | TURNER | ACCOUNTING | 30 |

| 7876 | ADAMS | OPERATIONS | 20 |

| 7876 | ADAMS | SALES | 20 |

| 7876 | ADAMS | RESEARCH | 20 |

| 7876 | ADAMS | ACCOUNTING | 20 |

| 7900 | JAMES | OPERATIONS | 30 |

| 7900 | JAMES | SALES | 30 |

| 7900 | JAMES | RESEARCH | 30 |

| 7900 | JAMES | ACCOUNTING | 30 |

| 7902 | FORD | OPERATIONS | 20 |

| 7902 | FORD | SALES | 20 |

| 7902 | FORD | RESEARCH | 20 |

| 7902 | FORD | ACCOUNTING | 20 |

| 7934 | MILLER | OPERATIONS | 10 |

| 7934 | MILLER | SALES | 10 |

| 7934 | MILLER | RESEARCH | 10 |

| 7934 | MILLER | ACCOUNTING | 10 |

+-------+--------+------------+--------+

56 rows in set (0.00 sec)

mysql> select empno,ename,dname,deptno from EMP right join DEPT using (deptno);

+-------+--------+------------+--------+

| empno | ename | dname | deptno |

+-------+--------+------------+--------+

| 7934 | MILLER | ACCOUNTING | 10 |

| 7839 | KING | ACCOUNTING | 10 |

| 7782 | CLARK | ACCOUNTING | 10 |

| 7902 | FORD | RESEARCH | 20 |

| 7876 | ADAMS | RESEARCH | 20 |

| 7788 | SCOTT | RESEARCH | 20 |

| 7566 | JONES | RESEARCH | 20 |

| 7369 | SMITH | RESEARCH | 20 |

| 7900 | JAMES | SALES | 30 |

| 7844 | TURNER | SALES | 30 |

| 7698 | BLAKE | SALES | 30 |

| 7654 | MARTIN | SALES | 30 |

| 7521 | WARD | SALES | 30 |

| 7499 | ALLEN | SALES | 30 |

| NULL | NULL | OPERATIONS | 40 |

+-------+--------+------------+--------+

15 rows in set (0.00 sec)

mysql> select empno,ename,dname,deptno from EMP left join DEPT using (deptno);

+-------+--------+------------+--------+

| empno | ename | dname | deptno |

+-------+--------+------------+--------+

| 7369 | SMITH | RESEARCH | 20 |

| 7499 | ALLEN | SALES | 30 |

| 7521 | WARD | SALES | 30 |

| 7566 | JONES | RESEARCH | 20 |

| 7654 | MARTIN | SALES | 30 |

| 7698 | BLAKE | SALES | 30 |

| 7782 | CLARK | ACCOUNTING | 10 |

| 7788 | SCOTT | RESEARCH | 20 |

| 7839 | KING | ACCOUNTING | 10 |

| 7844 | TURNER | SALES | 30 |

| 7876 | ADAMS | RESEARCH | 20 |

| 7900 | JAMES | SALES | 30 |

| 7902 | FORD | RESEARCH | 20 |

| 7934 | MILLER | ACCOUNTING | 10 |

+-------+--------+------------+--------+

14 rows in set (0.00 sec)

mysql> select ename,ename from emp e1,emp e2 where e1.empno=e2.mgr;

ERROR 1146 (42S02): Table 'admindb.emp' doesn't exist

mysql> select ename,ename from EMP e1,EMP e2 where e1.empno=e2.mgr;

ERROR 1052 (23000): Column 'ename' in field list is ambiguous

mysql> select e1.ename,e2.ename from EMP e1,EMP e2 where e1.empno=e2.mgr;

+-------+--------+

| ename | ename |

+-------+--------+

| FORD | SMITH |

| BLAKE | ALLEN |

| BLAKE | WARD |

| KING | JONES |

| BLAKE | MARTIN |

| KING | BLAKE |

| KING | CLARK |

| JONES | SCOTT |

| BLAKE | TURNER |

| SCOTT | ADAMS |

| BLAKE | JAMES |

| JONES | FORD |

| CLARK | MILLER |

+-------+--------+

13 rows in set (0.00 sec)

mysql> select ename from EMP where SAL>(select sal from emp where ename = 'allen');

ERROR 1146 (42S02): Table 'admindb.emp' doesn't exist

mysql> select ename from EMP where SAL>(select sal from EMP where ename = 'allen');

+-------+

| ename |

+-------+

| JONES |

| BLAKE |

| CLARK |

| SCOTT |

| KING |

| FORD |

+-------+

6 rows in set (0.00 sec)

mysql> select ename from EMP where SAL>(select sal from EMP where ename = 'allen') and job in(select job from EMP where job = "analyst");

+-------+

| ename |

+-------+

| SCOTT |

| FORD |

+-------+

2 rows in set (0.00 sec)

mysql> select job from EMP where job = 'analyst';

+---------+

| job |

+---------+

| ANALYST |

| ANALYST |

+---------+

2 rows in set (0.00 sec)

mysql> select \* from EMP where deptno = 10;

+-------+--------+-----------+------+------------+------+------+--------+

| EMPNO | ENAME | JOB | MGR | HIREDATE | SAL | COMM | DEPTNO |

+-------+--------+-----------+------+------------+------+------+--------+

| 7782 | CLARK | MANAGER | 7839 | 1981-06-09 | 2450 | NULL | 10 |

| 7839 | KING | PRESIDENT | NULL | 1981-11-17 | 5000 | NULL | 10 |

| 7934 | MILLER | CLERK | 7782 | 1982-01-23 | 1300 | NULL | 10 |

+-------+--------+-----------+------+------------+------+------+--------+

3 rows in set (0.00 sec)

mysql> select \* from EMP where deptno = 10 and deptno=20;

Empty set (0.00 sec)

mysql> select \* from EMP where deptno = 10 and deptno = 20;

Empty set (0.00 sec)

mysql> select ename from EMP where sal<any(select sal from emp where job = 'analyst');

ERROR 1146 (42S02): Table 'admindb.emp' doesn't exist

mysql> select ename from EMP where sal<any(select sal from EMP where job = 'analyst');

+--------+

| ename |

+--------+

| SMITH |

| ALLEN |

| WARD |

| JONES |

| MARTIN |

| BLAKE |

| CLARK |

| TURNER |

| ADAMS |

| JAMES |

| MILLER |

+--------+

11 rows in set (0.00 sec)

mysql> select ename from EMP where sal<all(select sal from EMP where job = 'analyst');

+--------+

| ename |

+--------+

| SMITH |

| ALLEN |

| WARD |

| JONES |

| MARTIN |

| BLAKE |

| CLARK |

| TURNER |

| ADAMS |

| JAMES |

| MILLER |

+--------+

11 rows in set (0.00 sec)

mysql> select sal from emp where job = 'salesman';

ERROR 1146 (42S02): Table 'admindb.emp' doesn't exist

mysql> select sal from EMP where job = 'salesman';

+------+

| sal |

+------+

| 1600 |

| 1250 |

| 1250 |

| 1500 |

+------+

4 rows in set (0.00 sec)

mysql> select ename from EMP where sal<any(select sal from EMP where job = 'salesman');

+--------+

| ename |

+--------+

| SMITH |

| WARD |

| MARTIN |

| TURNER |

| ADAMS |

| JAMES |

| MILLER |

+--------+

7 rows in set (0.00 sec)

mysql> select ename from EMP where sal<all(select sal from EMP where job = 'salesman');

+-------+

| ename |

+-------+

| SMITH |

| ADAMS |

| JAMES |

+-------+

3 rows in set (0.00 sec)

mysql> select \* from EMP;

+-------+--------+-----------+------+------------+------+------+--------+

| EMPNO | ENAME | JOB | MGR | HIREDATE | SAL | COMM | DEPTNO |

+-------+--------+-----------+------+------------+------+------+--------+

| 7369 | SMITH | CLERK | 7902 | 1980-12-17 | 800 | NULL | 20 |

| 7499 | ALLEN | SALESMAN | 7698 | 1981-02-20 | 1600 | 300 | 30 |

| 7521 | WARD | SALESMAN | 7698 | 1981-02-22 | 1250 | 500 | 30 |

| 7566 | JONES | MANAGER | 7839 | 1981-04-02 | 2975 | NULL | 20 |

| 7654 | MARTIN | SALESMAN | 7698 | 1981-09-28 | 1250 | 1400 | 30 |

| 7698 | BLAKE | MANAGER | 7839 | 1981-05-01 | 2850 | NULL | 30 |

| 7782 | CLARK | MANAGER | 7839 | 1981-06-09 | 2450 | NULL | 10 |

| 7788 | SCOTT | ANALYST | 7566 | 1982-12-09 | 3000 | NULL | 20 |

| 7839 | KING | PRESIDENT | NULL | 1981-11-17 | 5000 | NULL | 10 |

| 7844 | TURNER | SALESMAN | 7698 | 1981-09-08 | 1500 | 0 | 30 |

| 7876 | ADAMS | CLERK | 7788 | 1983-01-12 | 1100 | NULL | 20 |

| 7900 | JAMES | CLERK | 7698 | 1981-12-03 | 950 | NULL | 30 |

| 7902 | FORD | ANALYST | 7566 | 1981-12-03 | 3000 | NULL | 20 |

| 7934 | MILLER | CLERK | 7782 | 1982-01-23 | 1300 | NULL | 10 |

+-------+--------+-----------+------+------------+------+------+--------+

14 rows in set (0.00 sec)

mysql> show tables;

+-------------------+

| Tables\_in\_admindb |

+-------------------+

| DEPT |

| EMP |

| child |

| employee |

| newemp |

| order\_tbl |

| p1 |

| parent |

| student |

+-------------------+

9 rows in set (0.02 sec)

mysql> desc student;

+-------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+-------+-------------+------+-----+---------+-------+

| id | int | YES | | NULL | |

| name | varchar(30) | YES | | NULL | |

| grade | varchar(2) | YES | | A | |

+-------+-------------+------+-----+---------+-------+

3 rows in set (0.02 sec)

mysql> create table student(id int not null,name varchar(30)):

-> ;

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 ':' at line 1

mysql> create table student(id int unique,name varchar(30),grade varchar(2)):

-> insert into student values(100,'vidhya','B'):

-> insert into student values(100,'Leena','D'):

-> create table student(id int,name varchar(30),check(grade in('A','B','C','D'))):

-> insert into student values(200,'Leena','G'):

-> create table parent(id int,name varchar(30),constraint p1 primary key(id)):

-> create table child(cid int,cname varchar(30),foreign key(cid) references parent(id)):

-> insert into parent values(10,'lokesh'):

-> insert into parent values(20,'raghava'):

-> insert into parent values(20,'menaka'):

-> insert into parent values(30,'menaka'):

-> create table p1(id int primary key auto\_increment,name varchar(20)):