```
mysql> create table EMPLOYEE
    -> EMPNO INT PRIMARY KEY,
    -> ENAME VARCHAR(20),
    -> JOB VARCHAR(20),
    -> MGR INT,
    -> DOB DATÉ,
    -> SAL INT,
    -> COMM INT
    -> DEPTNO INT
    -> );
Query OK, 0 rows affected (0.12 sec)
mysql> DESC EMPLOYEE;
  Field
                           Null
                                          Default
            Type
                                   Kev
                                                     Extra
  EMPNO
            int
                           NO
                                    PRI
                                          NULL
                                          NULL
  ENAME
            varchar(20)
                            YES
  J<sub>0</sub>B
            varchar(20)
                            YES
                                          NULL
  MGR
            int
                            YES
                                          NULL
  DOB
            date
                            YES
                                          NULL
  SAL
            int
                            YES
                                          NULL
  COMM
            int
                            YES
                                          NULL
  DEPTNO
            int
                           YES
                                          NULL
8 rows in set (0.16 sec)
```

```
mysql> insert into EMPLOYEE values (7839,
t", NULL, '1981-09-17', 5000, NULL, 10);
Query OK, 1 row affected (0.09 sec)
                                                                                    "King", "Presidne
mysql> insert into EMPLOYEE values (7698, "Bi
ke", "Manager", 7839, '1981-05-01', 2850, NUL
 ke", "M
L, 30);
Query OK, 1 row affected (0.03 sec)
mysql> insert into EMPLOYEE values (7782, "Cl
erk", "Manager", 7839, '1981-06-09', 2450, NU
LL, 10);
Query OK, 1 row affected (0.07 sec)
mysql> insert into EMPLOYEE values (7886, "Ja
nes", "Manager", 7839, '1981-04-02', 2975, NU
LL, 30);
Query OK, 1 row affected (0.02 sec)
mysql> insert into EMPLOYEE values (7654, "Ma
rtin", "Salesman", 7698, '1981-02-20', 1250,
400, 30);
Query OK, 1 row affected (0.05 sec)
mysql> insert into EMPLOYEE values (&499, "Al len", "Salesman", 7698, '1981-02-08', 1630, N ULL, 20);
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right synta x to use near '&499, "Allen", "Salesman", 7698, '1981-02-08', 1630, NULL, 20)' at line 1
mysql> insert into EMPLOYEE values (7499, "Al len", "Salesman", 7698, '1981-02-08, 1638, NU
LL, 20) insert into EMPLOYEE values (7499, "Allen", "Salesman", 7698, '1981-02-08, 1638, NULL, 20);
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right synta x to use near '1981-02-08, 1638, NULL, 20)' at line 3
mysgl>
 mvsql>
 mysql>
 mysql> insert into EMPLOYEE values (7844, "James", "Clerk", 7699, '1981-03-09', 1500, NULL
Query OK, 1 row affected (0.01 sec)
mysql> insert into EMPLOYEE values (7900, "Turner", "Clerk", 7699, '1981-03-10', 950, NULL
```

Field	Type	 Nul	+ l Key	Default E	Extra			
EMPNO ENAME JOB MGR DOB SAL COMM DEPTNO	int varchan varchan int date int int int			NULL				
8 rows in set (0.07 sec) mysql> select * from EMPLOYEE; ++ EMPNO ENAME JOB MGR DOB SAL COMM DEPTNO								
7369 7369 7499 7521 7654 7698 7782	Ward Ford Allen James Martin Bike Clerk King James Adams	Analyst Clerk Salesman Salesman Salesman Manager Manager Presidnet Clerk	-+	1981-03-12 1981-04-01 1981-02-08 1981-03-11 1981-02-20 1981-05-01 1981-06-09 1981-09-17 1981-03-09	500 1638 1250 1250 2850 2450 5000 1500	+	20 10 20 10 30 30 10 10 20 10	

```
mysql> SELECT EMPNO, SAL FROM EMPLOYEE;
  EMPNO | SAL
             300
    1902
             500
    7369
    7499
            1638
            1250
    7521
    7654
            1250
            2850
    7698
    7782
            2450
    7839
            5000
    7844
            1500
            1100
    7876
    7886
            2975
    7888 | 3000
    7900 | 950
13 rows in set (0.00 sec)
mysql> SELET DEPTNO, ENAME, SAL FROM EMPLOYEE
WHERE EMPNO = 7844;

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right synta x to use near 'SELET DEPTNO, ENAME, SAL FROM EMPLOYEE WHERE EMPNO = 7844' at line 1
mysql> SELECT DEPTNO, ENAME, SAL FROM EMPLOYE
E WHERE EMPNO = 7844;
| DEPTNO | ENAME | SAL
        20 | James | 1500 |
1 row in set (0.01 sec)
mysql> SELECT DEPTNO, SAL, JOB FROM EMPLOYEE WHERE ENAME = 'JAMES';
  DEPTNO | SAL | JOB
        10 | 1250 | Salesman
        20 | 1500 | Clerk
2 rows in set (0.01 sec)
```

```
mysql> Delete from employee WHERE MGR = 7566;
Query OK, 2 rows affected (0.04 sec)
mysql> Alter table employee modify ENAME Varc
har(30);
Query OK, 0 rows affected (0.10 sec)
Records: 0 Duplicates: 0 Warnings: 0
mysql> Describe EMPLOYEE;
| Field | Type
                       | Null | Key | Default | Extra
  EMPNO
           int
                                PRI |
                                      NULL
                         NO
           varchar(30)
  ENAME
                         YES
                                      NULL
  JOB
           varchar(20)
                         YES
                                      NULL
  MGR
           int
                         YES
                                      NULL
  DOB
           date
                         YES
                                      NULL
  SAL
           int
                         YES
                                      NULL
  COMM
           int
                         YES
                                      NULL
          int
                         YES
  DEPTNO |
                                      NULL
8 rows in set (0.01 sec)
mysql> UPDATE EMPLOYEE SET COMM = 100 Where j
ob - 'SALESMAN';
ERROR 1292 (22007): Truncated incorrect DOUBLE value: 'Clerk'
mysql> update EMPLOYEE Set COMM = 100 where j
ob = 'Salesman';
Query OK, 3 rows affected (0.01 sec)
Rows matched: 3 Changed: 3 Warnings: 0
mysql> Select * from EMPLOYEE where Job = 'Sa
lesman';
 EMPNO ENAME
                                                  SAL
                 l JOB
                              MGR
                                     DOB
                                                         COMM
                                                                DEPTNO
          Allen
   7499 l
                   Salesman
                              7698
                                     1981-02-08
                                                  1638
                                                          100
                                                                    20
   7521
          James
                   Salesman
                              7698
                                     1981-03-11
                                                  1250
                                                          100
                                                                    10
   7654
          Martin
                 Salesman
                              7698
                                     1981-02-20
                                                  1250
                                                          100
                                                                    30
3 rows in set (0.01 sec)
```

```
mysql> select a.empno, a.job, a.sal, a.deptno, b.program, c.sname from emp a, dept b, school c
-> where a.deptno = b.deptno and b.schoolid = c.school;
                               | deptno | program |
  empno | job
                       sal
                                                       sname
   7369
           Clerk
                          500
                                      1Θ
                                           BMI
                                                       SHP
   7499
           Salesman
                         1630
                                      20
                                            PΤ
                                                       SHP
                         1250
                                      10
                                           BMI
                                                       SHP
   7521
           Salesman
   7654
           Salesman
                         1250
                                      30
                                            Dentist
                                                       RBHS
                                            Dentist
   7698
           Manager
                                                       RBHS
                         2850
                                      30
   7782
           Manager
                         2450
                                      10
                                           BMI
                                                       SHP
                                           BMI
                                                       SHP
           Presidnet
                                      10
   7839
                         5000
   7844
           Clerk
                         1500
                                      20
                                            PΤ
                                                       SHP
                                                       SHP
   7876
           Clerk
                         1100
                                      10
                                            BMI
   7886
                         2975
                                      30
                                            Dentist
                                                       RBHS
           Manager
                          950
   7900
           Clerk
                                      20
                                            PΤ
                                                       SHP
   1902
           Analys
                          300
                                      20
                                            PΤ
                                                       SHP
           Analyst
                                                       SHP
   7888
                         3000
                                      10
                                           BMI
13 rows in set (0.00 sec)
```

```
mysql> select * from
                         dept;
ı
                          ı
                                       ı
  Deptno
             Program
                            SchoolID
       10
             BMI
                            S001
                            S001
       20
             PT
       30
                            S002
             Dentist
       40
             BIoPharma
                            S001
       50
             Imagine
                            S002
            set
                 (0.00
  rows
        in
                        sec)
```

```
mysql> select a.empno, a.job, a.sal, a.deptno, b.program, c.sname from emp a, dept b, school c
-> where a.deptno=b.deptno and b.schoolid = school and b.program = 'Dentist';
  empno
              job
                            sal
                                     | deptno
                                                     program |
                                                                    sname
                              1250
    7654
              Salesman |
                                              30
                                                     Dentist
                                                                    RBHS
    7698
7886
                              2850
2975
                                                     Dentist
Dentist
                                                                    RBHS
RBHS
              Manager
                                              30
              Manager
                                              30
```

mysql> select * from emp a -> left join dept b -> on a.deptno = b.deptno -> union -> select * from emp a -> right join dept b -> on a.deptno = b.deptno -> ;										
EMPNO	ENAME	JOB	MGR	DOB	SAL	СОММ	DEPTNO	Deptno	Program	SchoolID
7369	Ford	Clerk	7902	1981-04-01	500	NULL	10	10	 BMI	S001
7499	Allen	Salesman	7698	1981-02-08	1630	100	20	20	PT	S001
7521	James	Salesman	7698	1981-03-11	1250	100	10	10	BMI	S001
7654	Martin	Salesman	7698	1981-02-20	1250	100	30	30	Dentist	S002
7698	Bike	Manager	7839	1981-05-01	2850	NULL	30	30	Dentist	S002
7782	Clerk	Manager	7839	1981-06-09	2450	NULL	10	10	BMI	S001
7839	King	Presidnet	NULL	1981-09-17	5000	NULL	10	10	BMI	S001
7844	James	Clerk	7699	1981-03-09	1500	NULL	20	20	PT	S001
7876	Adams	Clerk	7788	1981-04-03	1100	NULL	10	10	BMI	S001
7886	Janes	Manager	7839	1981-04-02	2975	NULL	30	30	Dentist	S002
7900	Turner	Clerk	7699	1981-03-10	950	NULL	20	20	PT	S001
1902	Ward	Analys	7566	1981-03-12	300	NULL	20	20	PT	S001
7888	Scott	Analyst	7566	1981-04-02	3000	NULL	10	10	BMI	S001
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	40	BIoPharma	S001
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	50	Imagine	S002
+++++++										

mysql> desc MY_V1EW;								
Field	Туре	Null	Key	Default	Extra			
+ SH_ID SH_NAME loc record_id Name Age Gender	varchar(5) varchar(10) varchar(15) varchar(5) varchar(2) int varchar(4)	NO YES YES NO YES YES YES		NULL NULL NULL NULL NULL NULL NULL				
DP_ID	varchar(5)	NO		NULL				
8 rows in set (0.01 sec)								

```
mysql> create table stu_dept (
     -> Record_ID varchar(5) not null primary key,
     -> SH_ID varchar(5) UNIQUE,
-> DP_ID varchar(5),
     -> Foreign key(SH_ID) references student(s_id)
     -> on delete cascade
     -> on update cascade,
-> Foreign key(DP_ID) references dept(DP_ID)
     -> on delete cascade
     -> on update cascade
     -> );
Query OK, 0 rows affected (0.11 sec)
mysql> select * from stu_dept;
Empty set (0.00 sec)
mysql> load data infile 'C:/ProgramData/MySQL/MySQL Server 8.0/Uploads/STUDENT DEPT.txt' into table stu_dept
-> fields terminated by ','
-> lines terminated by '\r\n'
-> ignore 1 lines;
Query OK, 6 rows affected (0.02 sec)
Records: 6 Deleted: 0 Skipped: 0 Warnings: 0
mysql> select * from stu_dept;
 Record_ID | SH_ID | DP_ID |
                 S001
                           D002
  R002
                 S002
                           D002
  R003
                 S003
                           D001
  R004
                 S004
                           D004
  R005
                           D001
                 S005
  R006
                 S006
                           D001
6 rows in set (0.00 sec)
```

```
mysql> select count(d.gender), b.sh_name, d.gender from stu_dept a, school b, dept c, student d
    -> where a.dp_id = c.dp_id
   -> and a.SH_ID = d.S_ID
   -> AND B.SH_id = C.SH_ID
   -> GROUP BY SH_NAME;
                                gender
 count(d.gender) | sh_name
                3
                    RBHS
                                М
                2
                    SHP
                                М
                    DENTISTRY
                1
                                F
3 rows in set (0.01 sec)
```

```
mysql> show index from student;
| Table | Non_unique | Key_name | Seq_in_index | Column_name | Collation | Cardinality | Sub_part | Packed | Null | Index_type | Comment | Index_comment | Visible | Expression |
 student |
                         0 | PRIMARY
                                                                  1 | S_ID
                                                                                     l A
                                                                                                                  6 I
                                                                                                                           NULL |
                                                                                                                                      NULL |
 BTREE
                                             | YES
 student |
                            | idx_student_name |
| YES
                                                                  1 | Name
                                                                                                                  6 |
                                                                                                                                      NULL | YES
 BTREE
                                                          NULL
```