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*Name-Rahul Kanojiya*
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1.create and insert data into department table

```
mysql> use rk;
Database changed
mysql> create table department(DEPTNO int primary key,DNAME varchar(15),LOC
varchar(15));
Query OK, 0 rows affected (0.41 sec)

mysql> desc department;
+--------+-------------+------+-----+---------+-------+
| Field  | Type        | Null | Key | Default | Extra |
+--------+-------------+------+-----+---------+-------+
| DEPTNO | int         | NO   | PRI | NULL    |       |
| DNAME  | varchar(15) | YES  |     | NULL    |       |
| LOC    | varchar(15) | YES  |     | NULL    |       |
+--------+-------------+------+-----+---------+-------+
3 rows in set (0.07 sec)
mysql> insert into department values(10,'ACCOUNTING','NEW
YORK'),(20,'RESEARCH','DALLAS'),(30,'SALES','CHICAGO'),(40,'OPERATIONS','BOSTON');
Query OK, 4 rows affected (0.07 sec)
Records: 4  Duplicates: 0  Warnings: 0

mysql> select * from department;
+--------+------------+----------+
| DEPTNO | DNAME      | LOC      |
+--------+------------+----------+
|     10 | ACCOUNTING | NEW YORK |
|     20 | RESEARCH   | DALLAS   |
|     30 | SALES      | CHICAGO  |
|     40 | OPERATIONS | BOSTON   |
+--------+------------+----------+
4 rows in set (0.00 sec)
```

2.Create and Insert data in employee table

=>creating employee table:
```
mysql> create table employee(EMPNO int primary key,ENAME varchar(20),JOB
varchar(20),MGR int,HIREDATE date,SAL int,COMM int,DEPTNO int);
Query OK, 0 rows affected (0.22 sec)
mysql> desc employee;
+----------+-------------+------+-----+---------+-------+
| Field    | Type        | Null | Key | Default | Extra |
+----------+-------------+------+-----+---------+-------+
```

```
| EMPNO    | int         | NO   | PRI | NULL    |       |
| ENAME    | varchar(20) | YES  |     | NULL    |       |
| JOB      | varchar(20) | YES  |     | NULL    |       |
| MGR      | int         | YES  |     | NULL    |       |
| HIREDATE | date        | YES  |     | NULL    |       |
| SAL      | int         | YES  |     | NULL    |       |
| COMM     | int         | YES  |     | NULL    |       |
| DEPTNO   | int         | YES  |     | NULL    |       |
+----------+-------------+------+-----+---------+-------+
8 rows in set (0.05 sec)
```

=>making forign key using alter command:

```
mysql> alter table employee add foreign key (MGR) references employee(EMPNO);
Query OK, 0 rows affected (0.34 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql> alter table employee add foreign key (DEPTNO) references department(DEPTNO);
Query OK, 0 rows affected (0.29 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql> desc employee;
+----------+-------------+------+-----+---------+-------+
| Field    | Type        | Null | Key | Default | Extra |
+----------+-------------+------+-----+---------+-------+
| EMPNO    | int         | NO   | PRI | NULL    |       |
| ENAME    | varchar(20) | YES  |     | NULL    |       |
| JOB      | varchar(20) | YES  |     | NULL    |       |
| MGR      | int         | YES  | MUL | NULL    |       |
| HIREDATE | date        | YES  |     | NULL    |       |
| SAL      | int         | YES  |     | NULL    |       |
| COMM     | int         | YES  |     | NULL    |       |
| DEPTNO   | int         | YES  | MUL | NULL    |       |
+----------+-------------+------+-----+---------+-------+
8 rows in set (0.05 sec)
```

=>Inserting data into employee table:

```
select * from employee;
+-------+--------+----------+------+------------+------+------+--------+
| 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 | 1981-02-04 | 2975 | NULL |     20 |
|  7654 | MARTIN | SALESMAN | 7698 | 1981-09-28 | 1250 | 1400 |     30 |
|  7698 | BLAKE  | MANAGER  | 7839 | 1981-01-05 | 2850 | NULL |     30 |
|  7782 | CLARK  | MANAGER  | 7839 | 1981-09-06 | 2450 | NULL |     10 |
|  7788 | SCOTT  | ANALYST  | 7566 | 1982-09-12 | 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 |   NULL |
|  7902 | FORD   | ANALYST   | 7566 | 1981-03-12 | 3000 | NULL |     20 |
+-------+--------+-----------+------+------------+------+------+--------+
12 rows in set (0.00 sec)
```