```
mysql> create database dbms;
Query OK, 1 row affected (0.00 sec)

mysql> use dbms;
Database changed
```

```
mysql> create table department(
    -> Dno int PRIMARY KEY,
    -> Dname varchar(50),
    -> Location varchar(50) DEFAULT 'NEW DELHI');
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> create table employee(
    -> Eno char(3),
    -> Ename varchar(50) NOT NULL,
    -> Job_type varchar(50) NOT NULL,
    -> Manager char(3) DEFAULT NULL,
    -> Hire_date date NOT NULL,
    -> Dno int DEFAULT NULL,
    -> Commission decimal(10,2) DEFAULT NULL,
    -> Salary decimal(7,2) NOT NULL,
    -> PRIMARY KEY(Eno),
    -> CONSTRAINT Dno FOREIGN KEY (Dno) REFERENCES department(Dno),
    -> CONSTRAINT Manager FOREIGN KEY (Manager) REFERENCES employee(Eno)
    -> );
Query OK, 0 rows affected (0.03 sec)
```

```
mysql> desc department;
+----------+-------------+------+-----+-----------+-------+
| Field    | Type        | Null | Key | Default   | Extra |
+----------+-------------+------+-----+-----------+-------+
| Dno      | int         | NO   | PRI | NULL      |       |
| Dname    | varchar(50) | YES  |     | NULL      |       |
| Location | varchar(50) | YES  |     | NEW DELHI |       |
+----------+-------------+------+-----+-----------+-------+
3 rows in set (0.00 sec)

mysql> desc employee;
+------------+--------------+------+-----+---------+-------+
| Field      | Type         | Null | Key | Default | Extra |
+------------+--------------+------+-----+---------+-------+
| Eno        | char(3)      | NO   | PRI | NULL    |       |
| Ename      | varchar(50)  | NO   |     | NULL    |       |
| Job_type   | varchar(50)  | NO   |     | NULL    |       |
| Manager    | char(3)      | YES  | MUL | NULL    |       |
| Hire_date  | date         | NO   |     | NULL    |       |
| Dno        | int          | YES  | MUL | NULL    |       |
| Commission | decimal(10,2)| YES  |     | NULL    |       |
| Salary     | decimal(7,2) | NO   |     | NULL    |       |
+------------+--------------+------+-----+---------+-------+
8 rows in set (0.00 sec)
```

```
mysql> insert into department values
    -> (1,'Data Analyst','Haryana'),
    -> (2,'Technical Engineer','Chandigarh'),
    -> (3,'Web Developer','New Delhi')
    -> ;
Query OK, 3 rows affected (0.00 sec)
Records: 3  Duplicates: 0  Warnings: 0

mysql> insert into employee values
    -> ('1','Komal','Code Developer','1','2022-10-09',1,100.00,40000.00),
    -> ('2','Prem','Web Developer','2','2022-10-10',2,000.00,60000.00),
    -> ('3','Sahej','App developer','3','2022-10-12',2,000.00,20000.00),
    -> ('4','Shivam','Code Developer','4','2022-10-02',3,000.00,60000.00),
    -> ('5','Aatika','Data Analyst','5','2022-11-02',1,000.00,50000.00),
    -> ('6','Kishan','Code Developer','6','2022-09-05',1,500.00,60000.00),
    -> ('7','Adarsh','Data Analyst','7','2022-10-01',3,800.00,50000.00);
Query OK, 7 rows affected (0.00 sec)
Records: 7  Duplicates: 0  Warnings: 0

mysql> select Ename,Job_type,Hire_date,Eno from employee;
+--------+----------------+------------+-----+
| Ename  | Job_type       | Hire_date  | Eno |
+--------+----------------+------------+-----+
| Komal  | Code Developer | 2022-10-09 | 1   |
| Prem   | Web Developer  | 2022-10-10 | 2   |
| Sahej  | App developer  | 2022-10-12 | 3   |
| Shivam | Code Developer | 2022-10-02 | 4   |
| Aatika | Data Analyst   | 2022-11-02 | 5   |
| Kishan | Code Developer | 2022-09-05 | 6   |
| Adarsh | Data Analyst   | 2022-10-01 | 7   |
+--------+----------------+------------+-----+
7 rows in set (0.00 sec)
```

```
mysql> select distinct Job_type from employee;
+---------------+
| Job_type      |
+---------------+
| Code Developer |
| Web Developer  |
| App developer  |
| Data Analyst   |
+---------------+
4 rows in set (0.00 sec)
```

```
mysql> select concat(Ename,',',Job_type) as Jobs2 from employee;
+----------------------+
| Jobs2                |
+----------------------+
| Komal,Code Developer |
| Prem,Web Developer   |
| Sahej,App developer  |
| Shivam,Code Developer |
| Aatika,Data Analyst  |
| Kishan,Code Developer |
| Adarsh,Data Analyst  |
+----------------------+
7 rows in set (0.00 sec)
```

```
mysql> select concat_ws(',',Eno,Ename,Job_type,Manager,Hire_date,Dno,Commission,Salary) as THE_OUTPUT from employee;
+----------------------------------------------------------+
| THE_OUTPUT                                               |
+----------------------------------------------------------+
| 1,Komal,Code Developer,1,2022-10-09,1,100.00,40000.00   |
| 2,Prem,Web Developer,2,2022-10-10,2,0.00,60000.00       |
| 3,Sahej,App developer,3,2022-10-12,2,0.00,20000.00      |
| 4,Shivam,Code Developer,4,2022-10-02,3,0.00,60000.00    |
| 5,Aatika,Data Analyst,5,2022-11-02,1,0.00,50000.00      |
| 6,Kishan,Code Developer,6,2022-09-05,1,500.00,60000.00  |
| 7,Adarsh,Data Analyst,7,2022-10-01,3,800.00,50000.00    |
+----------------------------------------------------------+
7 rows in set (0.00 sec)
```