

```
mysql> use ass4;
Database changed
mysql> create table employee(ename varchar(20) primary key, street varchar(20),
city varchar(20));
Query OK, 0 rows affected (0.54 sec)
```

```
mysql> insert into employee values('Rutuja','G-26','Jamnagar');
Query OK, 1 row affected (0.10 sec)
```

```
mysql> insert into employee values('Snigdha','Khodiyar
Colony','Noida'),('Dwiti','Patel Colony','Vadodara'),('Pranjul','Nandan
One','Ahmedabad'),('Sidhant','Mansarovar','Bhopal');
Query OK, 4 rows affected (0.07 sec)
Records: 4 Duplicates: 0 Warnings: 0
```

```
mysql> desc employee;
```

Field	Type	Null	Key	Default	Extra
ename	varchar(20)	NO	PRI	NULL	
street	varchar(20)	YES		NULL	
city	varchar(20)	YES		NULL	

3 rows in set (0.11 sec)

```
mysql> select * from employee;
```

ename	street	city
Dwiti	Patel Colony	Vadodara
Pranjul	Nandan One	Ahmedabad
Rutuja	G-26	Jamnagar
Sidhant	Mansarovar	Bhopal
Snigdha	Khodiyar Colony	Noida

5 rows in set (0.00 sec)

```
mysql> create table company(cname varchar(20) primary key, city varchar(20));
Query OK, 0 rows affected (0.42 sec)
```

```
mysql> desc company;
```

Field	Type	Null	Key	Default	Extra
cname	varchar(20)	NO	PRI	NULL	
city	varchar(20)	YES		NULL	

2 rows in set (0.00 sec)

```
mysql> insert into company
values('Amazon','Vadodara'),('Flipkart','Jamnagar'),('TCS','Pune'),('Wipro','Mumbai'),
('Google','Ahmedabad');
Query OK, 5 rows affected (0.17 sec)
Records: 5 Duplicates: 0 Warnings: 0
```

```
mysql> select * from company;
```

cname	city
Amazon	Vadodara
Flipkart	Jamnagar
Google	Ahmedabad
TCS	Pune
Wipro	Mumbai

5 rows in set (0.00 sec)

```
mysql> create table work(ename varchar(20) references employee(ename), cname
varchar(20) references company(cname), salary int);
Query OK, 0 rows affected (0.34 sec)
```

```
mysql> desc work;
```

Field	Type	Null	Key	Default	Extra
ename	varchar(20)	YES		NULL	
cname	varchar(20)	YES		NULL	
salary	int	YES		NULL	

3 rows in set (0.00 sec)

```
mysql> insert into work
values('Snigdha','Wipro',50000),('Pranjul','Google',1200000),('Sahil','Amazon',480000),
('Anisha','Microsoft',67000),('Rutuja','Barclays',550000);
Query OK, 5 rows affected (0.10 sec)
Records: 5 Duplicates: 0 Warnings: 0
```

```
mysql> select * from work;
```

ename	cname	salary
Snigdha	Wipro	50000
Pranjul	Google	1200000
Sahil	Amazon	480000
Anisha	Microsoft	67000
Rutuja	Barclays	550000

5 rows in set (0.00 sec)

```
mysql> create table manages(ename varchar(20) references employee(ename), mname
varchar(20));
Query OK, 0 rows affected (0.53 sec)
```

```
mysql> desc manages;
```

Field	Type	Null	Key	Default	Extra
ename	varchar(20)	YES		NULL	
mname	varchar(20)	YES		NULL	

2 rows in set (0.00 sec)

```
mysql> insert into manages
values('Riya','Rutuja'),('Snigdha','Dwiti'),('Aditya','Kshitij'),('Pranjul','Rutuja'),
('Vishakha','Sahil');
Query OK, 5 rows affected (0.15 sec)
Records: 5 Duplicates: 0 Warnings: 0
```

```
mysql> select * from manages;
```

ename	mname
Riya	Rutuja
Snigdha	Dwiti
Aditya	Kshitij
Pranjul	Rutuja
Vishakha	Sahil

5 rows in set (0.00 sec)

```
mysql> select * from employee, company;
```

ename	street	city	cname	city
Snigdha	Khodiyar Colony	Noida	Amazon	Vadodara
Sidhant	Mansarovar	Bhopal	Amazon	Vadodara
Rutuja	G-26	Jamnagar	Amazon	Vadodara
Pranjul	Nandan One	Ahmedabad	Amazon	Vadodara
Dwiti	Patel Colony	Vadodara	Amazon	Vadodara
Snigdha	Khodiyar Colony	Noida	Flipkart	Jamnagar
Sidhant	Mansarovar	Bhopal	Flipkart	Jamnagar
Rutuja	G-26	Jamnagar	Flipkart	Jamnagar
Pranjul	Nandan One	Ahmedabad	Flipkart	Jamnagar
Dwiti	Patel Colony	Vadodara	Flipkart	Jamnagar
Snigdha	Khodiyar Colony	Noida	Google	Ahmedabad
Sidhant	Mansarovar	Bhopal	Google	Ahmedabad
Rutuja	G-26	Jamnagar	Google	Ahmedabad
Pranjul	Nandan One	Ahmedabad	Google	Ahmedabad
Dwiti	Patel Colony	Vadodara	Google	Ahmedabad

Snigdha	Khodiyar Colony	Noida	TCS	Pune
Sidhant	Mansarovar	Bhopal	TCS	Pune
Rutuja	G-26	Jamnagar	TCS	Pune
Pranjul	Nandan One	Ahmedabad	TCS	Pune
Dwiti	Patel Colony	Vadodara	TCS	Pune
Snigdha	Khodiyar Colony	Noida	Wipro	Mumbai
Sidhant	Mansarovar	Bhopal	Wipro	Mumbai
Rutuja	G-26	Jamnagar	Wipro	Mumbai
Pranjul	Nandan One	Ahmedabad	Wipro	Mumbai
Dwiti	Patel Colony	Vadodara	Wipro	Mumbai

25 rows in set (0.00 sec)

```
mysql> select * from work where cname='Google';
```

ename	cname	salary
Pranjul	Google	1200000

1 row in set (0.10 sec)

```
mysql> select ename, city from employee e, work w where e.ename=w.ename and
w.cname='Google';
ERROR 1052 (23000): Column 'ename' in field list is ambiguous
```

```
mysql> select e.ename, e.city from employee e, work w where e.ename=w.ename and
w.cname='Google';
```

ename	city
Pranjul	Ahmedabad

1 row in set (0.00 sec)

```
mysql> select e.ename, e.city from employee e inner join work w on e.ename=w.ename
and w.cname='Google';
```

ename	city
Pranjul	Ahmedabad

1 row in set (0.00 sec)

```
mysql> select ename, city from employee where ename = (select ename from work
where cname='Google');
```

ename	city
Pranjul	Ahmedabad

1 row in set (0.01 sec)

```
mysql> select ename, street, city from employee where ename = (select ename from
work where cname='Google' and salary>50000);
```

ename	street	city
Pranjul	Nandan One	Ahmedabad

1 row in set (0.00 sec)

```
mysql> select e.ename from employee e where e.city in (select c.city from work w,
company c where w.cname = c.cname);
```

ename
Dwiti
Pranjul

2 rows in set (0.16 sec)

```
mysql> select e.ename, e.street, e.city from employee e where e.ename = (select
m.ename from manages m, manages m1 where m.ename = m1.mname);
Empty set (0.00 sec)
```

```
select ename from work where salary > All (select salary from work where
cname='Google');
Empty set (0.00 sec)
```