

Enter password: ****

Welcome to the MySQL monitor. Commands end with ; or \g.

Your MySQL connection id is 22

Server version: 8.0.34 MySQL Community Server - GPL

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

```
mysql> use practical4; Database
changed
```

```
mysql> create table persons(pid int not null auto_increment primary key, lname varchar(20),
fname varchar(20), city varchar(10)); Query OK, 0 rows affected (0.03 sec)
```

```
mysql> create table orders(oid int not null auto_increment primary key, orderno int(10), pid
int, foreign key(pid) references persons(pid)); Query OK, 0 rows affected, 1 warning (0.03
sec)
```

```
mysql> desc persons;
```

Field	Type	Null	Key	Default	Extra
pid	int	NO	PRI	NULL	auto_increment
lname	varchar(20)	YES		NULL	
fname	varchar(20)	YES		NULL	
city	varchar(10)	YES		NULL	

4 rows in set (0.01 sec)

```
mysql> desc orders;
```

Field	Type	Null	Key	Default	Extra
oid	int	NO	PRI	NULL	auto_increment
orderno	int	YES		NULL	
pid	int	YES	MUL	NULL	

3 rows in set (0.00 sec)

```
mysql> insert into persons(pid,lname,fname,city) values(1,'Dhumal','Yash','Pune'); Query
OK, 1 row affected (0.01 sec)
```

```
mysql> insert into persons(pid,lname,fname,city) values(2,'Karnavat','Mayuresh','Mumbai');
Query OK, 1 row affected (0.00 sec)
```

```
mysql> insert into persons(pid,lname,fname,city) values(3,'Mokashi','Samarth','Kochi');
Query OK, 1 row affected (0.01 sec)
```

```
mysql> select * from persons; +-----+-----+-----+-----+
| pid | lname  | fname | city  |
+-----+-----+-----+-----+
| 1 | Dhumal | Yash  | Pune  |
| 2 | Karnavat | Mayuresh | Mumbai |
| 3 | Mokashi | Samarth | Kochi |
+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

```
mysql> insert into orders(oid,orderno,pid) values(1,3241,1);
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into orders(oid,orderno,pid) values(2,2342,2);
Query OK, 1 row affected (0.00 sec)
```

```
mysql> insert into orders(oid,orderno,pid) values(3,6456,3);
Query OK, 1 row affected (0.00 sec)
```

```
mysql> select * from orders;
+-----+-----+-----+
| oid | orderno | pid |
+-----+-----+-----+
| 1 | 3241 | 1 |
| 2 | 2342 | 2 |
| 3 | 6456 | 3 |
+-----+-----+-----+
3 rows in set (0.00 sec)
```

```
mysql> select * from orders,customers;
ERROR 1146 (42S02): Table 'practical4.customers' doesn't exist mysql>
select * from orders,persons;
```

```
+-----+-----+-----+-----+-----+-----+
| oid | orderno | pid | pid | lname  | fname | city  |
+-----+-----+-----+-----+-----+-----+
| 3 | 6456 | 3 | 1 | Dhumal | Yash | Pune  |
| 2 | 2342 | 2 | 1 | Dhumal | Yash | Pune  |
| 1 | 3241 | 1 | 1 | Dhumal | Yash | Pune  |
| 3 | 6456 | 3 | 2 | Karnavat | Mayuresh | Mumbai |
| 2 | 2342 | 2 | 2 | Karnvat | Mayuresh | Mumbai |
```

1	3241	1	2	Karnavat	Mayuresh	Mumbai
3	6456	3	3	Mokashi	Samarth	Kochi
2	2342	2	3	Mokashi	Samarth	Kochi
1	3241	1	3	Mokashi	Samarth	Kochi

9 rows in set (0.00 sec)

```
mysql> select * from persons; +-----+-----+-----+-----+
| pid | lname  | fname | city  |
+-----+-----+-----+-----+
| 1   | Dhumal | Yash  | Pune  |
| 2   | Karnavat | Mayuresh | Mumbai |
| 3   | Mokashi  | Samarth | Kochi  |
+-----+-----+-----+-----+
```

3 rows in set (0.00 sec)

```
mysql> select * from orders;
+-----+-----+-----+
| oid | orderno | pid |
+-----+-----+-----+
```

1	3241	1
2	2342	2
3	6456	3

3 rows in set (0.00 sec)

```
mysql> insert into persons(pid,lname,fname,city) values(5,'Mharnur','Prasad','Nagpur');
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into orders(oid,orderno,pid) values(4,6456,1);
Query OK, 1 row affected (0.01 sec)
```

```
mysql> select * from orders;
+-----+-----+-----+
| oid | orderno | pid |
+-----+-----+-----+
```

1	3241	1
2	2342	2
3	6456	3
4	6456	1

4 rows in set (0.00 sec)

```
mysql> select * from persons;
+-----+-----+-----+-----+
```

```
| pid | lname | fname | city |
+-----+-----+-----+-----+
| 1 | Dhumal | Yash | Pune |
| 2 | Karnavat | Mayuresh | Mumbai |
| 3 | Mokashi | Samarth | Kochi |
| 5 | Mharnur | Prasad | Nagpur |
+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

```
mysql> select * from persons,orders where persons.pid = orders.pid;
+-----+-----+-----+-----+-----+-----+-----+
| pid | lname | fname | city | oid | orderno | pid |
+-----+-----+-----+-----+-----+-----+-----+
| 1 | Dhumal | Yash | Pune | 1 | 3241 | 1 |
| 1 | Dhumal | Yash | Pune | 4 | 6456 | 1 |
| 2 | Karnavat | Mayuresh | Mumbai | 2 | 2342 | 2 |
| 3 | Mokashi | Samarth | Kochi | 3 | 6456 | 3 |
+-----+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

```
mysql> select * from persons join orders on persons.pid = orders.pid;
+-----+-----+-----+-----+-----+-----+-----+
| pid | lname | fname | city | oid | orderno | pid |
+-----+-----+-----+-----+-----+-----+-----+
| 1 | Dhumal | Yash | Pune | 1 | 3241 | 1 |
| 1 | Dhumal | Yash | Pune | 4 | 6456 | 1 |
| 2 | Karnavat | Mayuresh | Mumbai | 2 | 2342 | 2 |
| 3 | Mokashi | Samarth | Kochi | 3 | 6456 | 3 |
+-----+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

```
mysql> select * persons.pid,lname,fname join orders on persons.pid = orders.pid;
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
'persons.pid,lname,fname join orders on persons.pid = orders.pid' at line 1
mysql> select persons.pid,lname,fname orderno from persons join orders on persons.pid =
orders.pid;
+-----+-----+-----+
| pid | lname | orderno |
+-----+-----+-----+
| 1 | Dhumal | Yash |
| 1 | Dhumal | Yash |
```

2	Karnavat	Mayuresh
3	Mokashi	Samarth

4 rows in set (0.00 sec)

```
mysql> select persons.pid,lname,fname,orderno from persons left join orders on persons.pid = orders.pid;
```

pid	lname	fname	orderno
1	Dhumal	Yash	3241
1	Dhumal	Yash	6456
2	Karnavat	Mayuresh	2342
3	Mokashi	Samarth	6456
5	Mharnur	Prasad	NULL

5 rows in set (0.00 sec)

```
mysql> select persons.pid,lname,fname,orderno from persons right join orders on persons.pid = orders.pid;
```

pid	lname	fname	orderno
1	Dhumal	Yash	3241
2	Karnavat	Mayuresh	2342
3	Mokashi	Samarth	6456
1	Dhumal	Yash	6456

4 rows in set (0.00 sec)

```
mysql>
```