```
MariaDB [supplier]> create table SUPPLIERS
    -> (
    -> sid integer,
    -> sname varchar(30),
    -> address varchar(30),
    -> PRIMARY KEY(sid)
    -> );
Query OK, 0 rows affected (0.277 sec)
MariaDB [supplier]>
MariaDB [supplier] > CREATE TABLE PARTS
    -> (
    -> pid integer,
    -> pname varchar(30),
    -> color varchar(30),
    -> PRIMARY KEY(pid)
    -> );
Query OK, 0 rows affected (0.025 sec)
MariaDB [supplier] > create table CATALOGUE
    -> (
    -> sid integer,
    -> pid integer,
    -> cost VARCHAR(30),
    -> FOREIGN KEY (sid) REFERENCES SUPPLIERS(sid),
    -> FOREIGN KEY (pid) REFERENCES PARTS(pid)
    -> );
Query OK, 0 rows affected (0.023 sec)
MariaDB [supplier]> insert into SUPPLIERS VALUES(10001,'
Acmewidget','bangalore');
Query OK, 1 row affected (0.026 sec)
MariaDB [supplier] > insert into SUPPLIERS VALUES(10002,'
jhons','kolkata');
Query OK, 1 row affected (0.009 sec)
MariaDB [supplier]> insert into SUPPLIERS VALUES(10003,'
vimal','mumbai');
Query OK, 1 row affected (0.002 sec)
```

```
MariaDB [supplier]> insert into SUPPLIERS VALUES(10002,'jhons','kolkata');
Query OK, 1 row affected (0.009 sec)

MariaDB [supplier]> insert into SUPPLIERS VALUES(10003,'vimal','mumbai');
Query OK, 1 row affected (0.002 sec)

MariaDB [supplier]> insert into SUPPLIERS VALUES(10004,'reliance','delhi');
Query OK, 1 row affected (0.008 sec)

MariaDB [supplier]> insert into PARTS VALUES(20001,'book','red');
Query OK, 1 row affected (0.015 sec)

MariaDB [supplier]> insert into PARTS VALUES(20002,'pen','red');
Query OK, 1 row affected (0.006 sec)

MariaDB [supplier]> insert into PARTS VALUES(20003,'pencil','green');
Query OK, 1 row affected (0.003 sec)

MariaDB [supplier]> insert into PARTS VALUES(20004,'mobile','green');
Query OK, 1 row affected (0.002 sec)

MariaDB [supplier]> insert into PARTS VALUES(20005,'charger','black');
Query OK, 1 row affected (0.004 sec)
```

```
Query OK, 1 row affected (0.002 sec)
MariaDB [supplier]> insert into PARTS VALUES(20005, 'charger', 'black'); Query OK, 1 row affected (0.004 sec)
MariaDB [supplier]> insert into CATALOGUE VALUES(10001,20001,10);
Query OK, 1 row affected (0.033 sec)
MariaDB [supplier]> insert into CATALOGUE VALUES(10001,20002,10);
Query OK, 1 row affected (0.025 sec)
MariaDB [supplier]> insert into CATALOGUE VALUES(10001,20003,30);
Query OK, 1 row affected (0.084 sec)
MariaDB [supplier]> insert into CATALOGUE VALUES(10001,20004,10);
Query OK, 1 row affected (0.025 sec)
MariaDB [supplier]> insert into CATALOGUE VALUES(10001,20005,10);
Query OK, 1 row affected (0.037 sec)
MariaDB [supplier] > insert into CATALOGUE VALUES(10002,20001,10); Ouerv OK 1 row affected (0.025 sec)
MariaDB [supplier]> insert into CATALOGUE VALUES(10002,20002,20);
Query OK, 1 row affected (0.024 sec)
MariaDB [supplier]> insert into CATALOGUE VALUES(10003,20003,30); Query OK, 1 row affected (0.024 sec)
MariaDB [supplier]> insert into CATALOGUE VALUES(10004,20003,40);
Query OK, 1 row affected (0.046 sec)
MariaDB [supplier] > select * from SUPPLIERS;
  sid
           sname
                          | address
  10001
            Acmewidget | bangalore
  10002
            jhons
                            kolkata
                            mumbai
            vimal
  10003
  10004
            reliance
                          | delhi
4 rows in set (0.002 sec)
MariaDB [supplier] > SELECT * FROM PARTS;
```

```
MariaDB [supplier]> SELECT * FROM PARTS;
                      color
 pid
          pname
  20001
          book
                     red
  20002
                      red
          pen
  20003
          pencil
                      green
  20004
          mobile
                     green
           charger
  20005
                     black
5 rows in set (0.002 sec)
MariaDB [supplier]> SELECT * FROM CATALOGUE;
  sid
          pid
                   cost
  10001
           20001
                   10
                   10
  10001
           20002
  10001
           20003
                   30
  10001
           20004
                   10
  10001
           20005
                   10
  10002
           20001
                   10
  10002
          20002
                   20
  10003
           20003
                   30
  10004
          20003
                   40
 rows in set (0.002 sec)
```

```
MariaDB [supplier]> SELECT pname FROM PARTS,CATALOGUE WHERE CATALOGUE.pid=PARTS.pid AND CATALOGUE.sid IS NOT NU LL;

+-----+
| pname |
+-----+
| book |
| pen |
| pencil |
| charger |
| book |
| pen |
| pencil |
| -------+
9 rows in set (0.047 sec)
```

```
MariaDB [supplier]> SELECT P.pname FROM PARTS P, CATALOGUE C, SUPPLIERS S WHERE P.pid = C.pid AND C.sid = S.sid
AND S.sname = 'Acmewidget' AND NOT EXISTS ( SELECT *FROM CATALOGUE C1, SUPPLIERS S1 WHERE P.pid = C1.pid AND C1
.sid = S1.sid AND S1.sname<>'Acmewidget');
+----+
pname
| mobile
| charger |
2 rows in set (0.003 sec)
MariaDB [supplier]> SELECT DISTINCT C.sid FROM CATALOGUE C WHERE C.cost> ( SELECT AVG (C1.cost) FROM CATALOGUE
C1 WHERE C1.pid = C.pid );
+----+
sid
 10002
 10004
+----+
2 rows in set (0.021 sec)
```

```
MariaDB [supplier]> SELECT P.pid, S.sname FROM PARTS P, SUPPLIERS S, CATALOGUE C WHERE C.pid = P.pid AND C.sid
= S.sid AND C.cost = (SELECT MAX (C1.cost) FROM CATALOGUE C1 WHERE C1.pid = P.pid);
ERROR 1630 (42000): FUNCTION supplier.MAX does not exist. Check the 'Function Name Parsing and Resolution' sect
ion in the Reference Manual
MariaDB [supplier]>
MariaDB [supplier]> SELECT P.pid, S.sname FROM PARTS P, SUPPLIERS S, CATALOGUE C WHERE C.pid = P.pid AND C.sid
= S.sid AND C.cost = (SELECT MAX(C1.cost) FROM CATALOGUE C1 WHERE C1.pid = P.pid);
| pid | sname
+----+
  20001 | Acmewidget
  20004
         Acmewidget
  20005 |
         Acmewidget
  20001
         jhons
  20002 | jhons
 20003 | reliance
6 rows in set (0.202 sec)
MariaDB [supplier]>
```