

```

CREATE
TABLE
CATALOG(
    SID INT,
    PID INT,
    COST REAL,
    PRIMARY KEY(SID, PID),
    FOREIGN KEY(SID) REFERENCES SUPPLIER(SID),
    FOREIGN KEY(PID) REFERENCES PARTS(PID)
);
DESC CATALOG;
CREATE TABLE SUPPLIER(
    SID INT,
    SNAME VARCHAR(20),
    ADDRESS VARCHAR(20),
    PRIMARY KEY(SID)
);
DESC SUPPLIER;
CREATE TABLE PARTS(
    PID INT,
    PNAME VARCHAR(20),
    COLOR VARCHAR(20),
    PRIMARY KEY(PID)
);
DESC PARTS;
INSERT INTO SUPPLIER VALUES(&SID, '&SNAME', '&ADDRESS');
SELECT * FROM SUPPLIER;
INSERT INTO PARTS VALUES(&PID, '&PNAME', '&COLOR');
SELECT * FROM PARTS;
INSERT INTO CATALOG VALUES(&SID, &PID, &COST);
SELECT * FROM CATALOG;
COMMIT;
1. Find the pnames of parts for which there is some supplier.

```

```
SELECT PNAME FROM PARTS, CATALOG
```

```
WHERE catalog.pid = parts.pid;
```

2. Find the snames of suppliers who supply every part.

3. Find the snames of suppliers who supply every red part.

```
SELECT SNAME FROM SUPPLIER, CATALOG, PARTS
```

```
WHERE PARTS.COLOR = 'RED' AND CATALOG.PID = PARTS.PID AND  
CATALOG.SID = SUPPLIER.SID;
```

4. Find the pnames of parts supplied by Acme Widget Suppliers
and by no one else.

```
SELECT PNAME FROM SUPPLIER, CATALOG, PARTS
```

```
WHERE SUPPLIER.SNAME = 'ACME WIDGET' AND CATALOG.SID =  
SUPPLIER.SID;
```