|  |
| --- |
| 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; |