1. Find the names of suppliers who supply some red part

```
SELECT Suppliers.sname
FROM Suppliers, Parts, Catalog
WHERE Parts.color = 'red' AND Catalog.pid = Parts.pid AND Catalog.sid =
Suppliers.sid
```

2. Find the sids of suppliers who supply some red or green part.

```
SELECT Catalog.sid
FROM Parts, Catalog
WHERE (Parts.color = 'red' OR Parts.color = 'green' )AND Catalog.pid =
Parts.pid
```

3. Find the sids of suppliers who supply some red part or are at 221 Packer Street

```
SELECT Suppliers.sid
FROM Suppliers, Parts, Catalog
WHERE (Parts.color = 'red' AND Catalog.pid = Parts.pid) OR (Suppliers.address = 221 Packer Street )
```

4. Find the sids of suppliers who supply every red or green part.

5. Find the sids of suppliers who supply every red part or supply every green part.

6. Find pairs of sids such that the supplier with the first sid charges more for some part than the supplier with the second sid.

```
SELECT DISTINCT Catalog1.sid, Catalog2.sid
FROM Catalog C1,
Catalog C2
WHERE Catalog1.pid = Catalog2.pid
AND Catalog1.sid != Catalog2.sid
And Catalog1.cost > Catalog2.cost
```

7. Find the pids of parts supplied by at least two different suppliers.

8. • find the average cost of the red parts and green parts for each of the suppliers

```
SELECT C.sid, AVERAGE(Catalog.cost)
FROM Catalog ,
    Parts ,
    Suppliers
WHERE Catalog.sid = Supplier.sid
AND Catalog.pid = Parts.pid
AND (Parts.color = 'Red' OR Parts.color = 'Green')
```

9. • find the sids of suppliers whose most expensive part costs \$50 or more

SELECT Catalog.sid

FROM Catalog
WHERE Catalog.cost >= 50