```
SELECT S.sname
01)
FROM Parts P, Catalog C , Suppliers S
WHERE C.pid=P.pid AND C.sid=S.sid
AND P.color='red'
Q2) SELECT C.sid
FROM Parts P , Catalog C
WHERE P.pid = C.pid
AND (P.color = 'red' OR P.color = 'green')
Q3) SELECT S.sid
FROM Suppliers S
WHERE S.address = '221 Packer street'
OR S.sid IN ( SELECT C.sid
             FROM Parts P, Catalog C
             WHERE P.pid = C.pid AND P.color='red')
Q4) SELECT C.sid
FROM Parts P, Catalog C
WHERE P.pid = C.pid
AND P.color = 'red'
AND EXISTS ( SELECT P2.pid
             FROM Parts P2, Catalog C2
             WHERE P2.color = 'green' AND C2.sid = C.sid
                    AND P2.pid = C2.pid)
Q5) SELECT C.sid
FROM Catalog C
WHERE NOT EXISTS (SELECT P.pid FROM Parts P
                       WHERE NOT EXISTS
                       ( SELECT C1.sid
                       FROM Catalog C1
                       WHERE C1.sid = C.sid
                       AND C1.pid = P.pid))
```

```
Q6) SELECT C.sid
FROM Catalog C
WHERE NOT EXISTS (SELECT P.pid FROM Parts P
                       WHERE P.color = 'red'
                       AND NOT EXISTS
                       ( SELECT C1.sid
                       FROM Catalog C1
                       WHERE C1.sid = C.sid
                       AND C1.pid = P.pid ) )
Q7) SELECT C.sid
FROM Catalog C
WHERE NOT EXISTS (SELECT P.pid
                  FROM Parts P
                  WHERE (P.color = 'red' OR P.color = 'green')
                  AND (NOT EXISTS
                            ( SELECT C1.sid
                            FROM Catalog C1
                            WHERE C1.sid = C.sid
                            AND C1.pid = P.pid)
                       )
                  )
08) SELECT C.sid
FROM Catalog C
WHERE NOT EXISTS (SELECT P.pid
                  FROM Parts P
                  WHERE P.color = 'red'
                  AND (NOT EXISTS
                            ( SELECT C1.sid
                            FROM Catalog C1
                            WHERE C1.sid = C.sid
                            AND C1.pid = P.pid)))
     OR ( NOT EXISTS (SELECT P1.pid
                  FROM Parts P1
                  WHERE P1.color = 'green'
                  AND (NOT EXISTS (SELECT C2.sid
                            FROM Catalog C2
                            WHERE C2.sid = C.sid
                            AND C2.pid = P1.pid))))
```

```
Q9) SELECT C1.sid, C2.sid
FROM
Catalog C1, Catalog C2
WHERE C1.pid = C2.pid AND C1.sid <> C2.sid
AND C1.cost > C2.cost
```

## Q11) SELECT C.pid FROM Catalog C, Suppliers S WHERE S.sname = 'Yosemite Sham' AND C.sid = S.sid AND C.cost ≥ ALL (Select C2.cost FROM Catalog C2, Suppliers S2 WHERE S2.sname = 'Yosemite Sh am' AND C2.sid = S2.sid)