```
- - create the table
CREATE TABLE q0ne
    Object char(255) NOT NULL,
    Dependent char(255) NOT NULL,
     CONSTRAINT obj_pk PRIMARY KEY (Object),
     CONSTRAINT dep fk FOREIGN KEY (Dependent)
    REFERENCES qOne(Object) DISABLE
);
- - insert content into the table
  INSERT ALL
   INTO qOne(Object, Dependent) Values ('e2','e1')
   INTO qOne(Object, Dependent) Values ('e3','e2')
   INTO qOne(Object, Dependent) Values ('e1','e3')
   SELECT * FROM dual;
 - - modify the table, enable the constraint
ALTER TABLE q0ne
ENABLE CONSTRAINT dep_fk;
3.

    – CREATE THE THREE TABLES

SQL> CREATE TABLE Suppliers (
  2 S# varchar(255) NOT NULL,
 3 SNAME varchar(255),
 4 STATUS int,
 5 CITY varchar(255),
 6 PRIMARY KEY (S#)
 7);
SQL> CREATE TABLE Parts(
 2 P# varchar(255) NOT NULL,
  3 PNAME varchar(255),
 4 Color varchar(255),
 5 Weight int,
 6 City varchar(255),
```

```
7 PRIMARY KEY (P#)
 8);
SQL> CREATE TABLE sp (
  2 S# varchar(255),
  3 p# varchar(255),
  4 QTY int,
  5 FOREIGN KEY (S#) references Suppliers (S#),
  6 FOREIGN KEY ( p#) references Parts (P#),
  7 PRIMARY KEY (S#)
 8);

    – SET ADDITIONAL CONSTRAINTS

- - check that the status of the supplier is greater than zero
ALTER TABLE Suppliers
ADD CONSTRAINT check_Status (status > 0);
- - ensure that the name of the supplier is not null
ALTER TABLE Suppliers
MODIFY SNAME varchar NOT NULL:
- - check that the only colours to be used for the parts tables are
red, blue or green
ALTER TABLE Parts
ADD CONSTRAINT check color CHECK (Color IN ('Red', 'Blue', 'Green'));
 - - check that the #p value has two character
ALTER TABLE Parts
ADD CONSTRAINT check_hashP CHECK (LENGTH(P#) = 2);
- - check that the qty for the supplier part is at least 100 to 400
units
ALTER TABLE sp
ADD CONSTRAINT check qty CHECK (QTY BETWEEN 100 and 400);
                       - - POPULATE TABLES
```

INSERT ALL

```
INTO Suppliers (s#, sname, status, city) VALUES ('s1',
'Smith', 20, 'London')
INTO Suppliers (s#, sname, status, city) VALUES ('s2',
'Jones', 30, 'Paris')
INTO Suppliers (s#, sname, status, city) VALUES ('s3',
'Blake', 30, 'Paris')
INTO Suppliers (s#, sname, status, city) VALUES ('s4',
'Clark', 20, 'London')
INTO Suppliers (s#, sname, status, city) VALUES ('s5',
'Adams', 30, 'Athens')
INTO Parts (p#, pname, color, weight, city) VALUES ('p1',
'Nut', 'Red', 12.0, 'London')
INTO Parts (p#, pname, color, weight, city) VALUES ('p2',
'Bolt', 'Green', 17.0, 'Paris')
INTO Parts (p#, pname, color, weight, city) VALUES ('p3',
'Screw', 'Blue', 17.0, 'Oslo')
INTO Parts (p#, pname, color, weight, city) VALUES ('p4',
'Screw', 'Red', 14.0, 'London')
INTO Parts (p#, pname, color, weight, city) VALUES ('p5',
'Cam', 'Blue', 12.0, 'Paris')
INTO Parts (p#, pname, color, weight, city) VALUES ('p6',
'Cog', 'Red', 19.0, 'London')
INTO sp (s#, p#, qty) VALUES ('s1', 'p1', 300)
                                      'p2', 200)
INTO sp (s#, p#, qty) VALUES ('s1'
INTO sp (s#, p#, qty) VALUES ('s1',
                                      'p3', 400)
                                      'p4', 200)
INTO sp (s#, p#, qty) VALUES ('s1',
INTO sp (s#, p#, qty) VALUES ('s1',
                                      'p5', 100)
                                         , 100)
                                      'p6'
INTO sp (s#, p#, qty) VALUES ('s1'
                                      'p1', 300)
INTO sp (s#, p#, qty) VALUES ('s2'
                                      'p2', 400)
INTO sp (s#, p#, qty) VALUES ('s2',
INTO sp (s#, p#, qty) VALUES ('s3',
                                      'p2', 200)
                                         ', 200)
INTO sp (s#, p#, qty) VALUES ('s4',
INTO sp (s#, p#, qty) VALUES ('s4',
                                      'p2'
                                      'p4'
                                          , 300)
INTO sp (s#, p#, qty) VALUES ('s4', 'p5', 400)
 SELECT * FROM dual:
- - total constraints = Primary Key + Foreign Key + NOT
```

NULL + Check Status + Modify SName + Check color +

check\_hashP + check\_qty = 8 unique constrains