

Suppliers - Parts Database

Suppliers

<u>SNo</u>	<u>SName</u>	<u>Status</u>	<u>City</u>
S1	Smith	20	London
S2	Jones	10	Paris
S3	Blake	30	Paris
S4	Clark	20	London
S5	Adams	30	Athens


Parts

<u>PNo</u>	<u>PName</u>	<u>Colour</u>	<u>Weight</u>	<u>City</u>
P1	Nut	Red	12	London
P2	Bolt	Green	17	Paris
P3	Screw	Blue	17	Rome
P4	Screw	Red	14	London
P5	Cam	Blue	12	Paris
P6	Cog	Red	19	London

Shipments

<u>SNo</u>	<u>PNo</u>	<u>Qty</u>
S1	P1	300
S1	P2	200
S1	P3	400
S1	P4	200
S1	P5	100
S1	P6	100
S2	P1	300
S2	P2	400
S3	P2	200
S4	P2	200
S4	P4	300
S4	P5	400

Queries (1 – 7 already done in class) :

1. Get supplier names for suppliers who supply part P2.
2. Get supplier names for suppliers who supply at least one red part.
- ~~3. Get supplier names for suppliers who supply all parts.~~ 
- ~~4. Get supplier names for suppliers who supply all those parts supplied by S2.~~
- ~~5. Get supplier names for suppliers who supply all red parts.~~
6. Get all pairs of supplier numbers such that the two suppliers concerned are located in the same city.
7. Get supplier names for suppliers who do not supply part P2.

8. Get the total number of suppliers

```
select count(*) from s;
```

9. Get the maximum and minimum quantity for part P2.

```
select pno, max(qty), min(qty)
from spj
group by pno
having pno = 'P2';
```

OR

```
select pno, max(qty), min(qty)
from spj
where pno = 'P2'
group by pno;
```

10. Get part numbers for parts supplied by more than one supplier.

```
select pno
from spj
group by pno
having count(*) > 1;
```

11. For each part supplied, get the part number and the total shipment quantity.

```
select pno, sum(qty)
from spj
group by pno;
```

12. Get supplier numbers for suppliers with status less than the current maximum status in the S table.

```
select sno
from s
where status <
      (select max(status)
       from S);
```

13. Get all combinations of part and supplier information such that the supplier and part in question are colocated.

```
select s.* , p.*
from s, p
where s.city = p.city
```