Final Exam

1. Using joins only, find the names of those suppliers that are located in London and supply a red part to a project located in Paris.

```
select s.sname from spj spj
join s on s.s# = spj.s#
join p on p.p# = spj.p#
join j on j.j# = spj.j#
where s.city ='London' and p.color = 'red' and j.city = 'Paris'

Query Result ×

SQL | All Rows Fetched: 1 in 0.004 seconds

SNAME
1 Smith
```

2. Get all part names and their total quantity supplied where total quantity is more than 1000. Exclude from the total where quantity supplied is less than 100.

```
select p.pname, sum(spj.qty) total from
(select * from spj spj where qty >=100) spj

join p on p.p# = spj.p#

group by (spj.p#, p.pname)
having sum(spj.qty) >1000

Author Sum(spj.qty) >1000

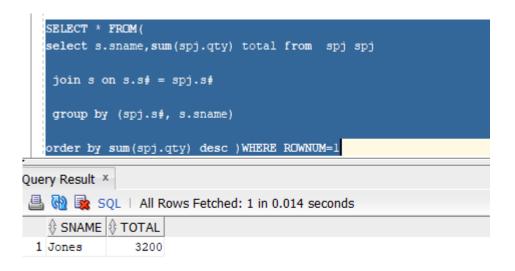
Query Result ×

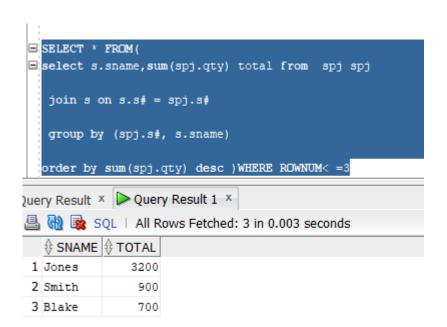
Query Result ×

SQL | All Rows Fetched: 1 in 0.005 seconds

PNAME TOTAL
1 screw 3300
```

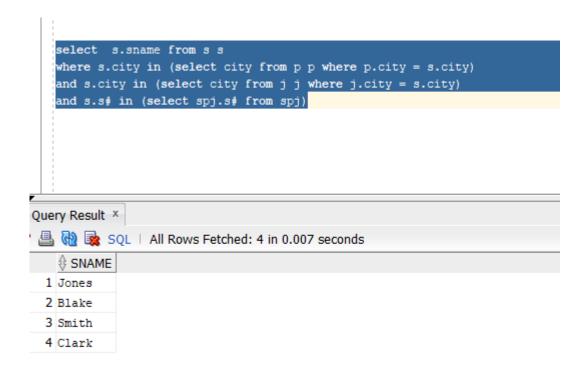
 ${f 3.}$ Find the names of suppliers who have supplied the most quantity.





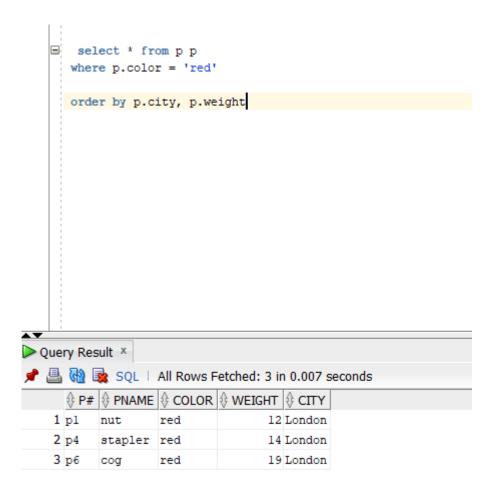
4. Using sub-queries only (this means that no joins are allowed), get supplier names for those suppliers supplying parts located in the same city as the supply and to a project located in the same city as the supply.





5. Get all the information for all the red parts order by the city where the parts are located first and then by weight.





 $\mathbf{6}_{ullet}$ Using sub-queries only (correlated or non-correlated), find the names of those suppliers that are located in London and supply a red part to a project located in Paris.

```
select s.sname from s s

where s.s# in (select spj.s# from spj

where spj.p# in (select p.p# from p where p.color = 'red')

and spj.j# in (select j.j# from j where j.city = 'Paris')

and spj.s# in ( select s.s# from s where s.city = 'London'))

Query Result ×

Query Result ×

SQL | All Rows Fetched: 1 in 0.038 seconds

SNAME

1 Smith
```

7. Use set operations and sub-queries, find the names of those suppliers who have not supplied anything.



```
select s.sname from s
minus

select s.sname from s s
where s.s# in select spj.s# from spj
where qty >0)

Query Result ×

SQL | All Rows Fetched: 1 in 0.005 seconds

$\psi$ SNAME
1 Adams
```