

## Task 1

- 1) select distinct s.sname from "Suppliers" s, "Catalog" c, "Parts" p where s.sid=c.sid and c.pid=p.pid and p.color='Red'

	abc	sname	T
1		Wiley E. Coyote	
2		Yosemite Sham	

- 2) select distinct c.sid from "Catalog" c, "Parts" p where c.pid=p.pid and (p.color='Red' or p.color='Green')

	123	sid	T
1		1	
2		2	

- 3) select distinct s.sid from "Suppliers" s, "Catalog" c, "Parts" p where s.sid=c.sid and c.pid = p.pid and p.color='Red' or s.address = '221 Packer Street'

	123	sid	T
1		1	
2		2	

- 4) select distinct 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 = c.pid)))

	123	sid	T
1		1	
2		2	

- 5) select distinct 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 = c.pid)))  
or not exists(select p.pid from "Parts" p where (p.color = 'Green') and (not exists(  
select c1.sid from "Catalog" c1 where c1.sid = c.sid and c1.pid = c.pid)))

	123 sid	
1	1	
2	2	

- 6) select distinct c1.sid, c2.sid from "Catalog" c1, "Catalog" c2 where (not c1.sid = c2.sid and c1.cost > c2.cost)

	123 sid	123 sid
1	2	1
2	1	2

- 7) select distinct c1.pid from "Catalog" c1, "Catalog" c2 where c1.pid = c2.pid and not c1.sid = c2.sid

	123 pid	
1	1	
2	3	
3	5	

- 8) select c.sid, p.color, AVG(c.cost)  
from "Catalog" c, "Parts" p GROUP BY p.color, c.sid, c.pid, p.pid  
having c.pid=p.pid AND (p.color = 'Red' OR p.color = 'Green')
- 9) select distinct c.sid from "Catalog" c where c.cost >= 50

	123 sid	
1	1	