More queries on supplier database

```
36
37 ● Select c.pid, p.pname, c.sid, s.sname, c.cost from Catalog c
38    join Parts p ON c.pid = p.pid join Suplier s ON c.sid = s.sid
39    Where c.cost = (Select MAX(cost) from Catalog);
40
41 ● select s.sid,s.sname from suplier s where s.sid not in
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: ĪA

pid	pname	sid	sname	cost
20004	mobile	10003	Vimal	50

```
40
41 ● select s.sid,s.sname from suplier s where s.sid not in
42    (select c.sid from catalog c join parts p on c.pid = p.pid where p.color='red');
43
44 ● select s.sid , s.sname , sum(c.cost)  from suplier s join catalog c on s.sid =c.sid
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: ĪA

sid	sname
10003	Vimal
10004	Reliance
NULL	NULL

```
44 ● select s.sid , s.sname , sum(c.cost)  from suplier s join catalog c on s.sid =c.sid
45    group by s.sid,s.sname;
46
47 ● insert into catalog values(10003 , 20004,50),(10004 , 20005,25);
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: ĪA

sid	sname	sum(c.cost)
10001	Achme widget	70
10002	Johns	30
10003	Vimal	80
10004	Reliance	65

```
46
47 •    insert into catalog values(10003 , 20004,50),(10004 , 20005,25);
48 •    select s.sid , s.sname from suplier s join catalog c on s.sid=c.sid where cost>20
49      group by s.sid , s.sname having count(distinct c.pid)>=2;
50
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

sid	sname
10003	Vimal
10004	Reliance

```
50
51 •    select c.pid ,p.pname,c.sid,s.sname from catalog c join parts p on c.pid=p.pid
52      join suplier s on c.sid=s.sid where c.cost=
53      (select min(c2.cost)from catalog c2 where c2.pid=c.pid);
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

pid	pname	sid	sname
20001	Book	10001	Achme widget
20002	pen	10001	Achme widget
20003	pencil	10001	Achme widget
20004	mobile	10001	Achme widget
20005	charger	10001	Achme widget
20001	Book	10002	Johns
20003	pencil	10003	Vimal

```
54
55 •    create view partCount as select s.sid, s.sname, count(distinct c.pid) as total_parts
56      from Suplier s join Catalog c ON s.sid = c.sid group by s.sid, s.sname;
57 •    select * from partcount;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

sid	sname	total_parts
10001	Achme widget	5
10002	Johns	2
10003	Vimal	2
10004	Reliance	2

```sql
58
59  create view  MostExpensive as select c.pid, p.pname, c.sid, s.sname, c.cost
60  from catalog c join parts p on c.pid = p.pid join Suplier s on c.sid = s.sid
61  where c.cost = (select MAX(c2.cost)from Catalog c2 where c2.pid = c.pid);
62  select * from MostExpensive;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

pid	pname	sid	sname	cost
20001	Book	10001	Achme widget	10
20001	Book	10002	Johns	10
20002	pen	10002	Johns	20
20004	mobile	10003	Vimal	50
20003	pencil	10004	Reliance	40
20005	charger	10004	Reliance	25

```sql
63
64  delimiter $$
65  create trigger prevent_low_cost
66  before insert on catalog
67  for each row
68  begin
69      if new.cost < 1 then
70          set new.cost = 1;  -- enforce minimum cost
71      end if;
72  end $$
73
```

```sql
73
74  delimiter $$
75  create trigger set_default_cost
76  before insert on catalog
77  for each row
78  begin
79      if new.cost is null then
80          set new.cost = 100;  -- default cost value
81      end if;
82  end $$
83  delimiter ;
84
85
```