## DBMS LAB ASSIGNMENT 2014

SUBMITTED BY:
SARAH MASUD
12 CSS 57

```
create table vehicle57
       vcode varchar(10) primary key,
       vtype varchar(10),
       vcost int
);
create table spare57
       scode varchar(10) primary key,
       s_vtype varchar(10),
       cost int
);
create table dealer57
       dcode varchar(10) primary key,
       dname varchar(10),
       dloc varchar(10)
);
create table deals57
       vcode varchar(10),
       dcode varchar(10),
       vsold int,
       vsvear int.
       foreign key(vcode) references vehicle57(vcode)
       on update cascade on delete cascade,
       foreign kev(dcode) references dealer57(dcode)
       on update cascade on delete cascade
);
create table keeps57
       dcode varchar(10),
       scode varchar(10),
       ssold int.
       syear int,
       foreign key(dcode) references dealer57(dcode)
       on update cascade on delete cascade,
       foreign key(scode) references spare57(scode)
       on update cascade on delete cascade
);
insert into vehicle57 values('C800','CAR',400000);
insert into spare57 values('S1','CAR800',600);
insert into deals57 values('C800','D1',100,2006);
insert into keeps57 values('D1','S1',100,2006);
insert into dealer57 values('D1','ALPHA','KOLKATA');
insert into vehicle57 values('C1000','CAR',550000);
insert into vehicle57 values('J1200','JEEP',700000);
insert into spare57 values('S2','CAR800',800);
insert into spare57 values('S3','CAR1000',1500);
insert into spare57 values('S4','CAR1000',1000);
insert into spare57 values('S5','JEEP',2000);
insert into spare57 values('S6','JEEP',1900);
insert into deals57 values('C800','D1',200,2007);
insert into deals57 values('C1000','D1',350,2006);
insert into deals57 values('C1000','D1',250,2007);
```

```
insert into deals57 values('J1200','D1',200,2006);
insert into deals57 values('J1200','D1',50,2007);
insert into deals57 values('C800','D2',100,2006);
insert into deals57 values('C800','D2',600,2007);
insert into deals57 values('C1000','D2',450,2006);
insert into deals57 values('C1000','D2',700,2007);
insert into deals57 values('J1200','D2',300,2006);
insert into deals57 values('J1200','D2',400,2007);
insert into dealer57 values('D2','DELTA','DELHI');
insert into dealer57 values('D3','GAMMA','PURI');
insert into keeps57 values('D1','S1',300,2007);
insert into keeps57 values('D2','S1',300,2007);
insert into keeps57 values('D1','S2',200,2007);
insert into keeps57 values('D2','S2',400,2006);
insert into keeps57 values('D1','S3',40,2007);
insert into keeps57 values('D1','S3',150,2006);
insert into keeps57 values('D2','S3',400,2007);
insert into keeps57 values('D2','S3',700,2006);
insert into keeps57 values('D1','S4',150,2007);
insert into keeps57 values('D2','S4',200,2007);
insert into keeps57 values('D1','S4',800,2006);
insert into keeps57 values('D1','S5',100,2006);
insert into keeps57 values('D1','S5',300,2007);
insert into keeps57 values('D2','S5',300,2006);
insert into keeps57 values('D1','S6',250,2007);
insert into keeps57 values('D2','S6',350,2006);
insert into keeps57 values('D2','S6',550,2007);
```

```
mysql> select * from vehicle57;
| vcode | vtype | vcost
| C1000 | CAR
               550000
 C800 | CAR
               400000
| J1200 | JEEP | 700000 |
3 rows in set (0.00 sec)
mysql> select * from dealer57;
| dcode | dname | dloc
| D1
        | ALPHA | KOLKATA
| D2
       | DELTA | DELHI
| D3 | GAMMA | PURI
3 rows in set (0.00 sec)
mysql> select * from deals57;
| vcode | dcode | vsold | vsyear |
| C800 | D1
                   200
                           2007
 C1000 | D1
                   350
                           2006
 C1000 | D1
                   250
                           2007
 J1200 | D1
                   200
                           2006
 J1200 | D1
                   50
                           2007
 C800
        D1
                   100
                           2006
 C800
        | D2
                   100
                           2006
 C800 | D2
                   600
                           2007
 C1000 | D2
                   450
                           2006
| C1000 | D2
                   700
                           2007
 J1200 | D2
                   300
                           2006
| J1200 | D2
                   400
                           2007
12 rows in set (0.01 sec)
```

```
mysql> select * from spare57;
| scode | s_vtype | cost |
      | CAR800 | 600 |
| S2
       | CAR800 | 800 |
 S3
       | CAR1000 | 1500 |
      | CAR1000 | 1000 |
 S4
               2000
 S5
       | JEEP
 S6 | JEEP | 1900 |
6 rows in set (0.00 sec)
mysql> select * from keeps57;
| dcode | scode | ssold | syear |
       | S1
| D1
                 300
                        2007
 D2
       | S1
                 300
                        2007
| D1
       | S2
                 200
                        2007
 D2
       | S2
                 400
                        2006
 D1
       | S3
                 40
                        2007
      | S3
                 150
 D1
                        2006
                 400
 D2
       | S3
                        2007
 D2
       | S3
                 700
                        2006
 D1
       S4
                 150
                        2007
 D2
       S4
                 200
                        2007
 D1
       | S4
                 800
                        2006
 D1
       | S5
                 100
                        2006
 D1
       | S5
                 300
                        2007
 D2
       I S5
                 300
                        2006
 D1
       | S6
                 250
                        2007
 D2
       S6
                 350
                        2006
D2
       | S6
                 550
                        2007
| D1 | S1 |
                 100
                        2006
18 rows in set (0.00 sec)
```

Q1. List the dealer detail who has sold maximum number of cars in 2007.

select \* from dealer57 where dcode = (select dcode from deals57 where vsyear = 2007 and vsold = (select max(vsold) from deals57 where vsyear = 2007));

Q2. List the vehicle details of that vehicle which is sold in minimum number in the year 2006.

select \* from vehicle57 where vcode=(select vcode from deals57 where vsyear=2006 and vsold=(select min(vsold) from deals57 where vsyear=2006)limit 1);

```
nysql> select * from vehicle57 where vcode=(select vcode from deals57 where vsyear=2006 and vsold=(select min(vsold) from deals57 where vsyear=2
006)limit 1);

+-----+-----+

| vcode | vtype | vcost |

+-----+-----+

| C800 | CAR | 400000 |

+-----+

1 row in set (0.00 sec)
```

Q3. List the selling statistics of car in the year 2007.

select vehicle57.vcode,vehicle57.vtype,vehicle57.vcost,deals57.vsyear, sum(vsold) from vehicle57,deals57 where vehicle57.vcode=deals57.vcode and vsyear=2007 and vtype='CAR' group by vcode;

Q4. List the selling statistics of dealer D2 in the year 2006.

select vehicle57.vcode,vehicle57.vtype,vehicle57.vcost,deals57.vsyear,deals57.dcode,sum(vsold) from vehicle57,deals57 where vehicle57.vcode=deals57.vcode and deals57.dcode='D2' and deals57.vsyear=2006 group by vcode;

Q5. List the earnings of company by selling JEEP in the year 2006.

select dealer57.dname,dealer57.dloc,deals57.dcode,vehicle57.vcost,(vehicle57.vcost\*deals57.vsold) as total,sum(vsold) as untis from vehicle57,dealer57,deals57 where dealer57.dcode=deals57.dcode and vehicle57.vcode=deals57.vcode and vsyear=2006 and deals57.vcode=(select vcode from vehicle57 where vtype='JEEP') group by dcode;

```
nysql> select dealer57.dname,dealer57.dloc,deals57.dcode,(vehicle57.vcost*deals57.vsold) as total,sum(vsold) as untis from vehicle57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,dealer57,deale
```

Q6. List the spare details which the dealer D2 has not sold in the year 2007.

select spare57.s\_vtype,spare57.scode,spare57.cost,keeps57.syear from spare57,keeps57 where keeps57.scode=spare57.scode and keeps57.scode NOT IN(select scode from keeps57 where dcode='D2' and syear=2007) and syear=2007;

Q7. List the dealer detail who has sold more than 200 spares in the year 2006.

select dealer57.dcode,dealer57.dname,dealer57.dloc,sum(ssold),sum(ssold)>200 from dealer57,keeps57 where dealer57.dcode=keeps57.dcode and syear=2007 group by dcode;

Q8. List the vehicle code, vehicle cost, spare code and spare cost details of JEEP.

select vcode,vcost,scode,scost from vehicle57,spare57 where vtye=stype and vtype='JEEP';

Q9. List the dealer name, spare cost and selling year of those spare parts which are sold in maximum number.

select dname,cost,syear from keeps57,dealer57,spare57 where ssold in (select max(ssold) from keeps57 group by syear) and keeps57.dcode = dealer57.dcode and keeps57.scode = spare57.scode;

Q10. List the year wise total sale of that vehicle whose spare parts cost is maximum.

select dname,cost,syear from spare57,dealer57,keeps57 where keeps57.scode in (select scode from keeps57 where ssold in (select max(ssold) from keeps57 group by syear)) and keeps57.scode=spare57.scode and keeps57.dcode=dealer57.dcode;

## Q11. List the vehicle details sold by the Kolkata dealer.

select \* from vehicle57 where vcode IN(select vcode from deals57 where dcode IN(select dcode from dealer57 where dloc='KOLKATA'));

```
mysql> select * from vehicle57 where vcode IN(select vcode from deals57 where dcode IN(select dcode from dealer57 where dloc='KOLKATA'));

+-----+
| vcode | vtype | vcost |

+-----+
| C1000 | CAR | 550000 |
| C800 | CAR | 400000 |
| J1200 | JEEP | 700000 |

+-----+
3 rows in set (0.00 sec)
```

select sum(vsold) as JEEP\_SALE from deals57 where vcode IN(select vcode from vehicle57 where vtype='JEEP');

```
mysql> select sum(vsold) as JEEP_SALE from deals57 where vcode IN(select vcode from vehicle57 where vtype='JEEP');
+-----+
| JEEP_SALE |
+-----+
| 950 |
+-----+
1 row in set (0.00 sec)
```

Q13. List the total sale of car in the year 2007.

select sum(vsold) as sales from deals57 where vsyear=2007 and vcode IN(select vcode from vehicle57 where vtype='CAR');

```
mysql> select sum(vsold) as sales from deals57 where vsyear=2007 and vcode IN(select vcode from vehicle57 where vtype='CAR');

+-----+

| sales |

+-----+

| 1750 |

+-----+

1 row in set (0.00 sec)
```

Q14. List the year wise earning of the company by selling spare part S5.

select spare57.scode,spare57.cost,syear,sum(ssold),sum(ssold)\*spare57.cost from spare57,keeps57 where spare57.scode=keeps57.scode and keeps57.scode='S5' group by syear;

select dcode,vcode,sum(vsold) from deals57 where dcode IN(select dcode from dealer57 where dname='ALPHA') group by vcode;

Q16. List the dealer details that is selling spare parts of CAR1000.

select \* from dealer57 where dcode IN(select dcode from keeps57 where scode IN(select scode from spare57 where s\_vtype='CAR1000'));

Q17. List the spare detail which was not sold by dealer D1 in the year 2006.

select \* from spare57 where scode not in (select scode from keeps57 where syear=2006 and dcode='D1');