

Create table

Vehicle(vid,vname,price,cid,reg_city) ---only vehicles which are sold

Customer(cid,cname,mobile)

Brand(vname,bname) example active---Honda, I10-Hyundai, civic---honda

1. Find all customer names and vname, for all customers who do not buy any vehicle also display brands for which no vehicle is sold.
Select cname,vname,null
From vehicle v right join customer c on v.cid=c.cid
Where v.vname is null
union
Select null,vname,bname
From vehicle v right join brand b on v.vname=b.vname
Where v.vname is null;
2. Find all customer names and vname, and also display customers who do not bought any vehicle.
Select v.vname,c.cname
From vehicle v right join customer c on v.cid=c.cid
3. Display cname and mobile for all customer who bought activa
Select cid,cname ,mobile
From customer
Where cid in (select cid
From vehicle
Where vname='Activa')
4. Find all customers who do not buy any vehicle
Select cname
From customer c where not exists(select *
From vehicle v where v.cid=c.cid);
5. Find all vehicles name, cname and bname of all vehicles with price > 200000
Select vname,cname,bname
From vehicle v,customer c, brand b
Where v.cid=c.cid and v.vname=b.vname and price > 200000;
6. Find all brands for which no vehicle is sold
Select bname from brand b
where not exists (select * from vehicle v where v.vname=b.vname)
7. Find all vehicles which are registered in pune
Select * from vehicle where reg_city='Pune';

Set operators ----- union, intersect, minus, union all
But in mysql only union works

Union --- will display common rows only once
Union all ---- will display common rows twice
Intersect ----- will display only common rows
Minus ----- will display only rows available in table 1 and not common rows.

If you want to combine o/p of multiple queries use set operators.
For set operators the number of columns in all queries should be same, corresponding columns data type should match.

If we have following 3 tables

```
mysql> select * from emp_india;
```

```
+-----+-----+-----+
| id  | name  | location |
+-----+-----+-----+
| 103 | Shivesh | India  |
| 104 | Shivali | India  |
+-----+-----+-----+
2 rows in set (0.01 sec)
```

```
mysql> select * from emp_us;
```

```
+-----+-----+-----+
| id  | name  | location |
+-----+-----+-----+
| 100 | Rajan  | India  |
| 101 | Rajat  | US     |
| 103 | Shivesh | India  |
+-----+-----+-----+
3 rows in set (0.00 sec)
```

```
mysql> select * from emp_japan
-> ;
```

```
+-----+-----+-----+
| id  | name  | location |
+-----+-----+-----+
| 103 | Shivesh | India  |
| 104 | Ashish | Japan  |
+-----+-----+-----+
2 rows in set (0.00 sec)
```

To list all employees who works either in India, or in US or in Japan;

```
mysql> select * from emp_india
```

```
-> union
-> select * from emp_us
-> union
-> select * from emp_japan;
```

```
+-----+-----+-----+
| id  | name  | location |
+-----+-----+-----+
```

103	Shivesh	India
104	Shivali	India
100	Rajan	India
101	Rajat	US
104	Ashish	Japan

5 rows in set (0.00 sec)

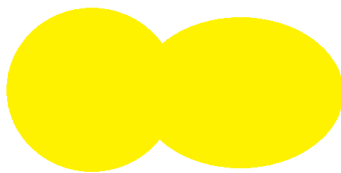
```
mysql> select * from emp_india
-> ^C
```

```
mysql> select * from emp_us
-> minus
-> select * from emp_india;
```

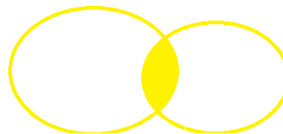
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'select * from emp_india' at line 3

```
mysql> select * from emp_us
-> intersect
-> select * from emp_india;
```

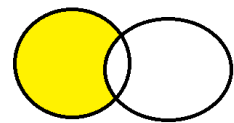
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'select * from emp_india' at line 3



A|| B A union B



A intersect B



A minus B

Display all employee names and sum(sal) departmentwise
 Select deptno, ename,sal,max(sal) over (partition by deptno)

Display all employee names and sum(sal) departmentwise and arrange data in sorted order within each category.

```
select pid,pname,price,cid,avg(price) over(partition by cid order by price)
-> from product;From emp;
```