

Reg No : 19BCE2074

Set : 1

1>

```
create table Supplier(  
id varchar(5) not null check (substr(id,1,1)="P"),  
sname varchar(255) not null,  
address varchar(255) not null,  
phone varchar(10) not null UNIQUE,  
country varchar(50) not NULL,  
PRIMARY KEY(id)  
);
```

```
create table products(  
pid varchar(5) not null,  
pname varchar(255) not null,  
qty int not null check (qty<500),  
brand varchar(255) not null,  
category varchar(60) not null check (category="Grocery" or category = "Electronics" or category =  
"Books" or category = "Lifestyle"),  
PRIMARY key(pid));
```

```
create TABLE price(  
id varchar(5) not null check (substr(id,1,1)="P"),  
pid varchar(5) not null,  
cost int not null check (cost>=100 and cost<=250000),  
FOREIGN key (id) REFERENCES supplier(id),  
FOREIGN key (pid) REFERENCES products(pid));
```

2>

ALTER table price add vat int not null check (vat<=5);

3>

insert into Supplier VALUES ("P1000","Kulvir","Syndicate Colony","7541097627","India");

insert into products values ("prod1","hello",200,"Nestle","Books");

insert into price values ("P1000","prod1",300,2);

```
mysql> select * from products;
```

pid	pname	qty	brand	category
prod1	hello	200	Nestle	Books
prod2	world	400	Britannia	Electronics
prod3	moon	355	Premship	Grocery

3 rows in set (0.00 sec)

```
mysql> select * from price;
```

id	pid	cost	vat
P1000	prod1	300	2
P2000	prod2	988	1
P3000	prod3	400	4

3 rows in set (0.00 sec)

```
mysql> select* from supplier;
```

id	sname	address	phone	country
P1000	Kulvir	Syndicate Colony	7541097627	India
P2000	Cristiano	Lisbon Area	9234611791	Portugal
P3000	Sarry	Tottenham Colony	9934570227	England

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

4>

i

select pid from products where category="Books" or category = "Electronics"

union

select pname from products where category="Books" or category="Electronics";

```
mysql> select pid from products where category="Books" or category = "Electronics"
-> union
-> select pname from products where category="Books" or category="Electronics";
```

pid
prod1
prod2
hello
world

```
4 rows in set (0.01 sec)
```

iii

select products.pname from price inner join products on products.pid=price.pid where cost>500;

```
mysql> select products.pname from price inner join products on products.pid=price.pid where cost>500;
```

pname
world

```
1 row in set (0.00 sec)
```

lv

```
select qty from products inner join supplier on (substr(supplier.sname,1,1)="S") where brand="Nestle"
or brand="Britannia";
```

```
mysql> select qty from products inner join supplier on (substr(supplier.sname,1,1)="S") where brand="Nestle" or brand="Britannia";
Empty set (0.00 sec)
```