**Problem-1**

create table book(

book\_id int not null auto\_increment,

book\_p\_id int not null,

book\_c\_id int not null default 1,

book\_author varchar(100) not null,

book\_publ\_date date not null,

primary key (book\_id),

foreign key (book\_p\_id) references prod\_details(p\_id) on delete cascade,

foreign key (book\_c\_id) references category(cat\_id) on delete cascade

);

insert into book (book\_p\_id, book\_author, book\_publ\_date)

values

(1, 'Franz Kafka', '2007-01-01');

insert into book (book\_p\_id, book\_author, book\_publ\_date)

values

(2, 'Franz Kafka', '2017-11-01'),

(3, 'Jaya Dev', '2018-11-01'),

(4, 'Jayaprakash Narayan', '1997-11-01'),

(5, 'G. B. Shaw', '2000-11-01');

**Problem-2**

delete from customer where cust\_id = 6;

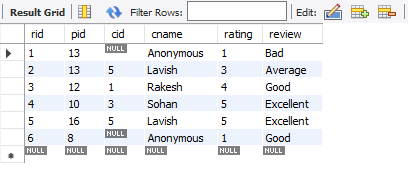
update review

set

cname = 'Anonymous'

where cid is null and cname is not null;

Note: **on delete set default is not supporting on my current db so I used this method.**

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**Problem-3**

UPDATE prod\_details

SET

p\_price = (p\_price \* 0.9)

WHERE

p\_vw\_count < 10 AND p\_price > 5000 AND TIMESTAMPDIFF(MONTH, p\_vw\_date, CURDATE()) < 3;

**Problem-4**

insert into cust\_address (cust\_id, city, state)

values

(1, 'Mumbai', 'Maharashtra'),

(1, 'Pune', 'Maharashtra');

**Problem-5**

select ret\_name as 'Name', ret\_email as 'Email-id' from retailer where ret\_city = 'Delhi';

**Problem - 6**

select cust\_name as 'Name', sum(TotalPurchase) as 'Total Amount' from customer natural join cust\_address,

(select ord\_cust\_id, sum(ord\_prd\_qunt\*p\_price) as 'TotalPurchase'

from orders natural join ord\_details, prod\_details

where ord\_prd\_id = p\_id

group by ord\_id

having sum(ord\_prd\_qunt\*p\_price) >= 5000 ) as P

where customer.cust\_id = p.ord\_cust\_id and city = 'Mumbai'

group by cust\_id

**Problem-7**

select p\_name as 'Product Name', p\_price as 'Product Price', b\_name as 'Brand Name'

from prod\_details, brand

where prod\_details.p\_b\_id = brand.b\_id and (p\_name like '%Apple%' or p\_name like '%Xioami%');

**Problem-8**

select p\_name as 'Product Name', p\_price as 'Product Price', p\_quantity as 'Product Quantity'

from prod\_details

where p\_id in (

select ord\_prd\_id

from ord\_details as D

natural join (

select \*

from orders

where ord\_cust\_id = 1

order by ord\_add\_date desc

limit 3

) as O

);

**Problem-9**

select p\_name as 'Product Name', p\_price as 'Product Price', cart\_prd\_qunt as 'Quantity'

from prod\_details, carts natural join cart\_details

where cart\_cust\_id = 2 and cart\_prd\_id = p\_id

**Problem-10**

select p\_name as 'Book Name', book\_publ\_date as 'Published Date'

from prod\_details, book

where prod\_details.p\_type = 'book' and prod\_details.p\_id = book.book\_p\_id and TIMESTAMPDIFF(MONTH, '2001-01-01', book\_publ\_date)>=0;

**Problem-11**

select p\_name as 'Product Name', p\_price as 'Product Price'

from prod\_details

where p\_cat\_id = 2 and p\_price between 10000 and 50000;

**Probem-12**

select p\_name as 'Furniture Name'

from prod\_details, retailer

where prod\_details.p\_cat\_id = 3 and prod\_details.p\_vndr\_id = retailer.ret\_id and retailer.ret\_name = 'IKea';

**Problem-13**

select p\_name as 'Product Name', p\_price as 'Product Price'

from prod\_details

where p\_cat\_id = 2 and p\_type = 'Laptop'

order by p\_price asc;

**Problem -14**

select \* from prod\_details where TIMESTAMPDIFF(MONTH, '2000-07-09', p\_add\_dt)>=0;

**Problem-15**

select p\_name as 'Book Name'

from prod\_details, book

where prod\_details.p\_type = 'book' and prod\_details.p\_id = book.book\_p\_id and book\_author='Franz Kafka';

**Problem-16**

select cust\_name as 'Name', cust\_email as 'Email-id', sum(cart\_prd\_qunt) as 'Quantity'

from customer, carts natural join cart\_details

where customer.cust\_id = carts.cart\_cust\_id

group by cust\_id

having sum(cart\_prd\_qunt)<3

**Problem-17**

select ord\_id, MAX(ProductOrdered) as 'Max Ordered'

from (

select ord\_id, SUM(ord\_prd\_qunt) as 'ProductOrdered'

from orders natural join ord\_details

group by ord\_id

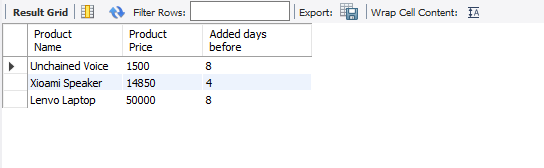
) as bests

**Problem-18**

select p\_name as 'Product Name', p\_price as 'Product Price', timestampdiff(day,p\_add\_dt,CURDATE()) as 'Added days before'

from prod\_details

where timestampdiff(day,p\_add\_dt,CURDATE())<=10;

****

**Problem-19**

select ret\_name, ret\_email

from retailer

where ret\_id in

(select p\_vndr\_id

from orders natural join ord\_details, prod\_details

where ord\_cust\_id = 1 and ord\_prd\_id = p\_id);

**Problem-20**

insert into Diwali\_Deals (p\_name, p\_price, p\_type, p\_vndr\_id, p\_desc, p\_quantity, p\_add\_dt, p\_vw\_count, p\_vw\_date, p\_cat\_id, p\_b\_id)

select p\_name, (p\_price\*.95), p\_type, p\_vndr\_id, p\_desc, p\_quantity, p\_add\_dt, p\_vw\_count, p\_vw\_date, p\_cat\_id, p\_b\_id

from prod\_details

where timestampdiff(day,p\_add\_dt,CURDATE())<=90;

**Problem-21**

select p\_name as 'Product Name' , p\_price as 'Product Price'

from orders natural join ord\_details, prod\_details, review

where ord\_prd\_id = p\_id and ord\_cust\_id = 1 and p\_id = review.pid and rating >=3

limit 10