

## Exercise(Introduction To Database)

```
create database store;
```

```
create table countries
```

```
(  
  code      int primary key,  
  name      varchar(20) unique,  
  continent_name varchar(20) not null  
);
```

```
create table users
```

```
(  
  id        int primary key,  
  full_name  varchar(20),  
  email      varchar(20) unique,  
  gender     char(1) check (gender = 'm' or gender = 'f'),  
  date_of_birth varchar(15),  
  created_at datetime default current_timestamp,  
  country_code int,  
  foreign key (country_code) references countries (code)  
);
```

```
create table orders
```

```
(  
  id      int primary key,  
  user_id int,  
  foreign key (user_id) references users (id),  
  status   varchar(6) check (status = 'start' or status = 'finish'),  
  created_at datetime default current_timestamp  
);
```

```
create table product
```

```
(  
  id      int primary key,  
  name    varchar(10) not null,  
  price   int    default 0,  
  status   varchar(10) check ( status = 'valid' or status = 'expired'),  
  created_at datetime default current_timestamp  
);
```

```
create table order_products
```

```
(  
  order_id int,  
  product_id int,  
  primary key (order_id,product_id),
```

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```
foreign key (order_id) references orders (id),  
foreign key (product_id) references product (id)  
);  
alter table order_products  
add column quantity int default 0;
```

```
insert into countries  
values (1, 'saudi arabia', 'Asia');  
insert into users  
values (101, 'jumanah ibrahim', 'jumanah@gmail.com', 'f', '2003-06-16', current_timestamp, '1');  
insert into product  
values (201, 'laptop', 3500, 'valid', current_timestamp);  
insert into orders  
values (301, 101, 'start', current_timestamp);  
insert into order_products  
values (301, 201, 1);  
update countries  
set name = 'Qatar'  
where code = 1;
```

# We cannot delete the product with id = 201 because it is linked to order\_products

```
insert into product  
values (202, 'PC', 5000, 'expired', current_timestamp);  
delete  
from product  
where id = 202;
```