

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;
```