Introduction to Database – Exercise

```
#DDL#

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,
   status varchar(6) check ( status= 'start' or status= 'finish' ),
   created_at datetime DEFAULT CURRENT_TIMESTAMP,
   foreign key (user_id) references users(id)
);


create table products(
   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,
    quantity int default 0,
    foreign key (order_id) references orders(id),
    foreign key (product_id) references products(id)
);

##################################################

#DML#

insert into countries
values (12221, 'Saudi Arabia','Asia');

select * from countries;


INSERT INTO users (id, full_name, email, gender, date_of_birth, country_code)
VALUES (8824, 'Nourah Abdullah', 'nourah@gmail.com', 'f', '2001-12-08', 12221);

select * from users;

insert into orders(id, user_id, status)
values (0002145, 8824, 'start');

insert into products(id, name, status)
values ('1109','iPhone','valid');

select * from products;

insert into order_products(order_id, product_id)
values (0002145, 1109 );

select * from order_products;

update countries
set name= 'United State', continent_name= 'North America'
where code= 12221;

delete from order_products where product_id= 1109;
#cannot delete the row from products
# unless first remove the referencing rows from the order_products table

delete from products where id= 1109;
```

countries

name	varchar(20)
continent_name	varchar(20)
code	int(11)

country_code:code

users

full_name	varchar(20)
email	varchar(20)
gender	char(1)
date_of_birth	varchar(15)
created_at	datetime
country_code	int(11)
id	int(11)

user_id:id

orders

user_id	int(11)
status	varchar(6)
created_at	datetime
id	int(11)

products

name	varchar(10)
price	int(11)
status	varchar(10)
created_at	datetime
id	int(11)

product_id:id   order_id:id

order_products

order_id	int(11)
product_id	int(11)
quantity	int(11)