create database SHOP;

Use shop;

-------Создание таблиц------------------

CREATE TABLE Customers

(

cust\_id char(10) NOT NULL ,

cust\_name char(50) NOT NULL ,

cust\_address char(50) NULL ,

cust\_city char(50) NULL ,

cust\_state char(5) NULL ,

cust\_zip char(10) NULL ,

cust\_country char(50) NULL ,

cust\_contact char(50) NULL ,

cust\_email char(255) NULL

);

CREATE TABLE OrderItems

(

order\_num int NOT NULL ,

order\_item int NOT NULL ,

prod\_id char(10) NOT NULL ,

quantity int NOT NULL ,

item\_price decimal(8,2) NOT NULL

);

CREATE TABLE Orders

(

order\_num int NOT NULL ,

order\_date date NOT NULL ,

cust\_id char(10) NOT NULL

);

CREATE TABLE Products

(

prod\_id char(10) NOT NULL ,

vend\_id char(10) NOT NULL ,

prod\_name char(255) NOT NULL ,

prod\_price decimal(8,2) NOT NULL ,

prod\_desc text NULL

);

CREATE TABLE Vendors

(

vend\_id char(10) NOT NULL ,

vend\_name char(50) NOT NULL ,

vend\_address char(50) NULL ,

vend\_city char(50) NULL ,

vend\_state char(5) NULL ,

vend\_zip char(10) NULL ,

vend\_country char(50) NULL

);

--ОПределим главные ключи (изменение стуктуры таблиц)------------

ALTER TABLE Customers ADD PRIMARY KEY (cust\_id);

ALTER TABLE OrderItems ADD PRIMARY KEY (order\_num, order\_item);

ALTER TABLE Orders ADD PRIMARY KEY (order\_num);

ALTER TABLE Products ADD PRIMARY KEY (prod\_id);

ALTER TABLE Vendors ADD PRIMARY KEY (vend\_id);

---# Определим внешние ключи (изменение стуктуры таблиц)------------

ALTER TABLE OrderItems ADD CONSTRAINT FK\_OrderItems\_Orders FOREIGN KEY (order\_num) REFERENCES Orders (order\_num);

ALTER TABLE OrderItems ADD CONSTRAINT FK\_OrderItems\_Products FOREIGN KEY (prod\_id) REFERENCES Products (prod\_id);

ALTER TABLE Orders ADD CONSTRAINT FK\_Orders\_Customers FOREIGN KEY (cust\_id) REFERENCES Customers (cust\_id);

ALTER TABLE Products ADD CONSTRAINT FK\_Products\_Vendors FOREIGN KEY (vend\_id) REFERENCES Vendors (vend\_id);

----------- Заполнение таблиц данными ---------------------

-- # Заполняем данными таблицу Customers

INSERT INTO Customers(cust\_id, cust\_name, cust\_address, cust\_city, cust\_state, cust\_zip, cust\_country, cust\_contact, cust\_email)

VALUES('1000000001', 'Village Toys', '200 Maple Lane', 'Detroit', 'MI', '44444', 'USA', 'John Smith', 'sales@villagetoys.com');

INSERT INTO Customers(cust\_id, cust\_name, cust\_address, cust\_city, cust\_state, cust\_zip, cust\_country, cust\_contact)

VALUES('1000000002', 'Kids Place', '333 South Lake Drive', 'Columbus', 'OH', '43333', 'USA', 'Michelle Green');

INSERT INTO Customers(cust\_id, cust\_name, cust\_address, cust\_city, cust\_state, cust\_zip, cust\_country, cust\_contact, cust\_email)

VALUES('1000000003', 'Fun4All', '1 Sunny Place', 'Muncie', 'IN', '42222', 'USA', 'Jim Jones', 'jjones@fun4all.com');

INSERT INTO Customers(cust\_id, cust\_name, cust\_address, cust\_city, cust\_state, cust\_zip, cust\_country, cust\_contact, cust\_email)

VALUES('1000000004', 'Fun4All', '829 Riverside Drive', 'Phoenix', 'AZ', '88888', 'USA', 'Denise L. Stephens', 'tephens@fun4all.com');

INSERT INTO Customers(cust\_id, cust\_name, cust\_address, cust\_city, cust\_state, cust\_zip, cust\_country, cust\_contact)

VALUES('1000000005', 'The Toy Store', '4545 53rd Street', 'Chicago', 'IL', '54545', 'USA', 'Kim Howard');

--# Заполняем данными таблицу Vendors

INSERT INTO Vendors(vend\_id, vend\_name, vend\_address, vend\_city, vend\_state, vend\_zip, vend\_country)

VALUES('BRS01','Bears R Us','123 Main Street','Bear Town','MI','44444', 'USA');

INSERT INTO Vendors(vend\_id, vend\_name, vend\_address, vend\_city, vend\_state, vend\_zip, vend\_country)

VALUES('BRE02','Bear Emporium','500 Park Street','Anytown','OH','44333', 'USA');

INSERT INTO Vendors(vend\_id, vend\_name, vend\_address, vend\_city, vend\_state, vend\_zip, vend\_country)

VALUES('DLL01','Doll House Inc.','555 High Street','Dollsville','CA','99999', 'USA');

INSERT INTO Vendors(vend\_id, vend\_name, vend\_address, vend\_city, vend\_state, vend\_zip, vend\_country)

VALUES('FRB01','Furball Inc.','1000 5th Avenue','New York','NY','11111', 'USA');

INSERT INTO Vendors(vend\_id, vend\_name, vend\_address, vend\_city, vend\_state, vend\_zip, vend\_country)

VALUES('FNG01','Fun and Games','42 Galaxy Road','London', NULL,'N16 6PS', 'England');

INSERT INTO Vendors(vend\_id, vend\_name, vend\_address, vend\_city, vend\_state, vend\_zip, vend\_country)

VALUES('JTS01','Jouets et ours','1 Rue Amusement','Paris', NULL,'45678', 'France');

--# Заполняем данными таблицу Products

INSERT INTO Products(prod\_id, vend\_id, prod\_name, prod\_price, prod\_desc)

VALUES('BR01', 'BRS01', '8 inch teddy bear', 5.99, '8 inch teddy bear, comes with cap and jacket');

INSERT INTO Products(prod\_id, vend\_id, prod\_name, prod\_price, prod\_desc)

VALUES('BR02', 'BRS01', '12 inch teddy bear', 8.99, '12 inch teddy bear, comes with cap and jacket');

INSERT INTO Products(prod\_id, vend\_id, prod\_name, prod\_price, prod\_desc)

VALUES('BR03', 'BRS01', '18 inch teddy bear', 11.99, '18 inch teddy bear, comes with cap and jacket');

INSERT INTO Products(prod\_id, vend\_id, prod\_name, prod\_price, prod\_desc)

VALUES('BNBG01', 'DLL01', 'Fish bean bag toy', 3.49, 'Fish bean bag toy, complete with bean bag worms with which to feed it');

INSERT INTO Products(prod\_id, vend\_id, prod\_name, prod\_price, prod\_desc)

VALUES('BNBG02', 'DLL01', 'Bird bean bag toy', 3.49, 'Bird bean bag toy, eggs are not included');

INSERT INTO Products(prod\_id, vend\_id, prod\_name, prod\_price, prod\_desc)

VALUES('BNBG03', 'DLL01', 'Rabbit bean bag toy', 3.49, 'Rabbit bean bag toy, comes with bean bag carrots');

INSERT INTO Products(prod\_id, vend\_id, prod\_name, prod\_price, prod\_desc)

VALUES('RGAN01', 'DLL01', 'Raggedy Ann', 4.99, '18 inch Raggedy Ann doll');

INSERT INTO Products(prod\_id, vend\_id, prod\_name, prod\_price, prod\_desc)

VALUES('RYL01', 'FNG01', 'King doll', 9.49, '12 inch king doll with royal garments and crown');

INSERT INTO Products(prod\_id, vend\_id, prod\_name, prod\_price, prod\_desc)

VALUES('RYL02', 'FNG01', 'Queen doll', 9.49, '12 inch queen doll with royal garments and crown');

- # Заполняем данными таблицу Orders

INSERT INTO Orders(order\_num, order\_date, cust\_id)

VALUES(20005, '2004-05-01', '1000000001');

INSERT INTO Orders(order\_num, order\_date, cust\_id)

VALUES(20006, '2004-01-12', '1000000003');

INSERT INTO Orders(order\_num, order\_date, cust\_id)

VALUES(20007, '2004-01-30', '1000000004');

INSERT INTO Orders(order\_num, order\_date, cust\_id)

VALUES(20008, '2004-02-03', '1000000005');

INSERT INTO Orders(order\_num, order\_date, cust\_id)

VALUES(20009, '2004-02-08', '1000000001');

-# Заполняем данными таблицу OrderItems

INSERT INTO OrderItems(order\_num, order\_item, prod\_id, quantity, item\_price)

VALUES(20005, 1, 'BR01', 100, 5.49);

INSERT INTO OrderItems(order\_num, order\_item, prod\_id, quantity, item\_price)

VALUES(20005, 2, 'BR03', 100, 10.99);

INSERT INTO OrderItems(order\_num, order\_item, prod\_id, quantity, item\_price)

VALUES(20006, 1, 'BR01', 20, 5.99);

INSERT INTO OrderItems(order\_num, order\_item, prod\_id, quantity, item\_price)

VALUES(20006, 2, 'BR02', 10, 8.99);

INSERT INTO OrderItems(order\_num, order\_item, prod\_id, quantity, item\_price)

VALUES(20006, 3, 'BR03', 10, 11.99);

INSERT INTO OrderItems(order\_num, order\_item, prod\_id, quantity, item\_price)

VALUES(20007, 1, 'BR03', 50, 11.49);

INSERT INTO OrderItems(order\_num, order\_item, prod\_id, quantity, item\_price)

VALUES(20007, 2, 'BNBG01', 100, 2.99);

INSERT INTO OrderItems(order\_num, order\_item, prod\_id, quantity, item\_price)

VALUES(20007, 3, 'BNBG02', 100, 2.99);

INSERT INTO OrderItems(order\_num, order\_item, prod\_id, quantity, item\_price)

VALUES(20007, 4, 'BNBG03', 100, 2.99);

INSERT INTO OrderItems(order\_num, order\_item, prod\_id, quantity, item\_price)

VALUES(20007, 5, 'RGAN01', 50, 4.49);

INSERT INTO OrderItems(order\_num, order\_item, prod\_id, quantity, item\_price)

VALUES(20008, 1, 'RGAN01', 5, 4.99);

INSERT INTO OrderItems(order\_num, order\_item, prod\_id, quantity, item\_price)

VALUES(20008, 2, 'BR03', 5, 11.99);

INSERT INTO OrderItems(order\_num, order\_item, prod\_id, quantity, item\_price)

VALUES(20008, 3, 'BNBG01', 10, 3.49);

INSERT INTO OrderItems(order\_num, order\_item, prod\_id, quantity, item\_price)

VALUES(20008, 4, 'BNBG02', 10, 3.49);

INSERT INTO OrderItems(order\_num, order\_item, prod\_id, quantity, item\_price)

VALUES(20008, 5, 'BNBG03', 10, 3.49);

INSERT INTO OrderItems(order\_num, order\_item, prod\_id, quantity, item\_price)

VALUES(20009, 1, 'BNBG01', 250, 2.49);

INSERT INTO OrderItems(order\_num, order\_item, prod\_id, quantity, item\_price)

VALUES(20009, 2, 'BNBG02', 250, 2.49);

INSERT INTO OrderItems(order\_num, order\_item, prod\_id, quantity, item\_price)

VALUES(20009, 3, 'BNBG03', 250, 2.49);

1. вывести перечень заказов (с детальной информацией о товаре) клиента 'Village Toys'
2. какое количество заказов отправлено в штаты с индексом, начинающимся с 4
3. Вывести список всех производителей и самых дорогих товаров этих производителей
4. вывести информацию о товарах стоимость которых менее 5, с указанием того, сколько заказчиков их заказано.
5. вывести информацию о товарах стоимость которых более 7, с указанием того, сколько единиц этого товара было заказано.
6. вывести наименование товаров производимых не в USA
7. найти количество товаров производимых в USA
8. вывести перечень заказчиков которые совершили заказ на суму более 300
9. вывеси перечень заказчиков с указанием итоговой суммы всех заказов
10. Вывести список заказов с указанием числа производителей в каждом заказе
11. Найти заказчика который совершил заказ с наибольшим числом товаров разных производителей.