

***Дисциплина: Учебная практика***

**Отчет по выполнению задания на тему: «Lesson 6».**

Выполнил:

Группа: **1ИСП-11-18**

Студент: Белякова Анастасия

Проверил преподаватель:

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Москва 2022 г.

Задание 6

create database MebelShop;

go

use MebelShop;

create table staff

(

id int primary key identity,

firtsname nvarchar(50) not null,

lastname nvarchar(50) not null,

number nvarchar(18) unique,

email nvarchar(50) unique,

gender nvarchar(1) check (gender in ('М', 'Ж')),

post nvarchar(50) not null,

salary int not null,

age int

constraint DF\_staff\_age default 18

constraint CK\_staff\_age check (Age > 0 and Age < 100)

);

insert into staff(firtsname, lastname, number, email, gender, post, salary, age) values

('Дмитрий', 'Серегин', '89775241258', 'seregindm@ya.ru', 'М', 'Продавец', 45000, 25),

('Роман', 'Мартынов', '89161253698', 'romka@ya.ru', 'М', 'Продавец-консультант', 45000, 23),

('Иван', 'Мухин', '89770256398', 'vanyamuhin@ya.ru', 'М', 'Бухгалтер', 100000, 47),

('Виктория', 'Михайлова', '89784526398', 'mihailovaaaa@ya.ru', 'Ж', 'Администратор', 70000, 32),

('Михаил', 'Максимов', '89142503607', 'maksmiha@ya.ru', 'М', 'Уборщик', 30000, 40),

('Ярослав', 'Алешин', '89178965741', 'yarik@ya.ru', 'М', 'Продавец', 45000, 28),

('Егор', 'Петров', '89770321478', 'egorka22@ya.ru', 'М', 'Менеджер', 50000, 30),

('Надежда', 'Никонова', '89159635800', 'nadezdaddd@ya.ru', 'Ж', 'Кадровик', 25000, 36),

('Алексей', 'Алексеев', '89253698574', 'lehasuper15@ya.ru', 'М', 'Диспетчер', 30000, 21),

('Ирина', 'Сметанина', '89302587412', 'smetana@bk.ru', 'Ж', 'Диспетчер', 30000, default);

create table customer

(

id int primary key identity,

firtsname nvarchar(50) not null,

lastname nvarchar(50) not null,

number nvarchar(18) unique,

email nvarchar(50) unique,

gender nvarchar(1) check (gender in ('М', 'Ж')),

adress nvarchar(90) not null,

age int

constraint DF\_customer\_age default 18

);

insert into customer(firtsname, lastname, number, email, gender, adress, age) values

('Мария', 'Иванова', '89162589632', 'mariaa31@mail.ru', 'Ж', 'ул. Куйбышева, 31', default),

('Анастасия', 'Павлова', '89142563985', 'nastyaya@mail.ru', 'Ж', 'ул. Сирени, 45', 25),

('Лев', 'Пономарев', '89778576523', 'levpon5@mail.ru', 'М', 'ул. Малая Бронная, 70', 30),

('Варвара', 'Соловьева', '89245632574', 'varya@mail.ru', 'Ж', 'Каширское шоссе, 43', 75),

('Василий', 'Головин', '89289632587', 'vasilyaaa@mail.ru', 'М', 'ул. Маршала Зуева, 12', 63),

('Арсений', 'Родионов', '89175236982', 'arsik@mail.ru', 'М', 'ул. Проводников, 21', 28),

('Василиса', 'Фролова', '89120123680', 'frolova45@mail.ru', 'Ж', 'ул. Лисенко, 32', 34),

('Максим', 'Куликов', '89162574156', 'kulik789@mail.ru', 'М', 'ул. Подводников, 23', 19),

('Артем', 'Балашев', '89779632541', 'artemka12@mail.ru', 'М', 'ул. Шарикоподшипниковская, 3', 20),

('Иван', 'Петров', '89151258745', 'ivan@gamail.com', 'М', 'ул. Ромашки, 56', default);

create table product

(

id int primary key identity(1, 1),

art int unique,

manufacturer nvarchar(100),

productname nvarchar(100) not null,

cost int check (cost > 0) not null,

description\_ nvarchar(100) not null,

characteristic\_1 nvarchar(50),

characteristic\_2 nvarchar(50),

characteristic\_3 nvarchar(50),

characteristic\_4 nvarchar(50)

);

insert into product(art, manufacturer, productname, cost, description\_, characteristic\_1, characteristic\_2, characteristic\_3, characteristic\_4) values

(365228, 'Производитель 1', 'Товар 1', 84999, 'Описание', 'Характеристика 1', 'Характеристика 2', 'Характеристика 3', 'Характеристика 4'),

(214785, 'Производитель 2', 'Товар 2', 8999, 'Описание', 'Характеристика 1', 'Характеристика 2', 'Характеристика 3', 'Характеристика 4'),

(021587, 'Производитель 3', 'Товар 3', 31999, 'Описание', 'Характеристика 1', 'Характеристика 2', 'Характеристика 3', 'Характеристика 4'),

(325698, 'Производитель 4', 'Товар 4', 74999, 'Описание', 'Характеристика 1', 'Характеристика 2', 'Характеристика 3', 'Характеристика 4'),

(857496, 'Производитель 1', 'Товар 5', 53999, 'Описание', 'Характеристика 1', 'Характеристика 2', 'Характеристика 3', 'Характеристика 4'),

(032569, 'Производитель 3', 'Товар 6', 42999, 'Описание', 'Характеристика 1', 'Характеристика 2', 'Характеристика 3', 'Характеристика 4'),

(745893, 'Производитель 4', 'Товар 7', 30999, 'Описание', 'Характеристика 1', 'Характеристика 2', 'Характеристика 3', 'Характеристика 4'),

(523698, 'Производитель 5', 'Товар 8', 19999, 'Описание', 'Характеристика 1', 'Характеристика 2', 'Характеристика 3', 'Характеристика 4'),

(452178, 'Производитель 6', 'Товар 9', 10999, 'Описание', 'Характеристика 1', 'Характеристика 2', 'Характеристика 3', 'Характеристика 4'),

(951753, 'Производитель 1', 'Товар 10', 16999, 'Описание', 'Характеристика 1', 'Характеристика 2', 'Характеристика 3', 'Характеристика 4');

create table cart

(

order\_code int primary key identity(1, 1),

customerID int references customer (id),

productname nvarchar(100),

type\_of\_promotion nvarchar(50) check (type\_of\_promotion in ('Обычная', 'Привилегированная')),

registration\_date date not null,

cost\_of\_order int check (cost\_of\_order > 0) not null,

sale int,

itog int

);

insert into cart(customerID, productname, type\_of\_promotion, registration\_date, cost\_of\_order, sale, itog) values

(1, 'Товар 1', 'Привилегированная', '2018-06-03', 84999, 8000, 76999),

(2, 'Товар 2', 'Обычная', '2018-03-07', 8999, 1000, 7999),

(3, 'Товар 3', 'Привилегированная', '2018-05-08', 31999, 5000, 26999),

(4, 'Товар 4', 'Привилегированная', '2018-07-12', 74999, 10000, 64999),

(5, 'Товар 5', 'Привилегированная', '2018-06-24', 53999, 7000, 46999),

(6, 'Товар 6', 'Обычная', '2018-01-09', 42999, 2000, 40999),

(7, 'Товар 7', 'Привилегированная', '2018-12-10', 30999, 3000, 27999),

(8, 'Товар 8', 'Обычная', '2018-09-29', 19999, 1000, 18999),

(9, 'Товар 9', 'Обычная', '2018-03-16', 10999, 1000, 9999),

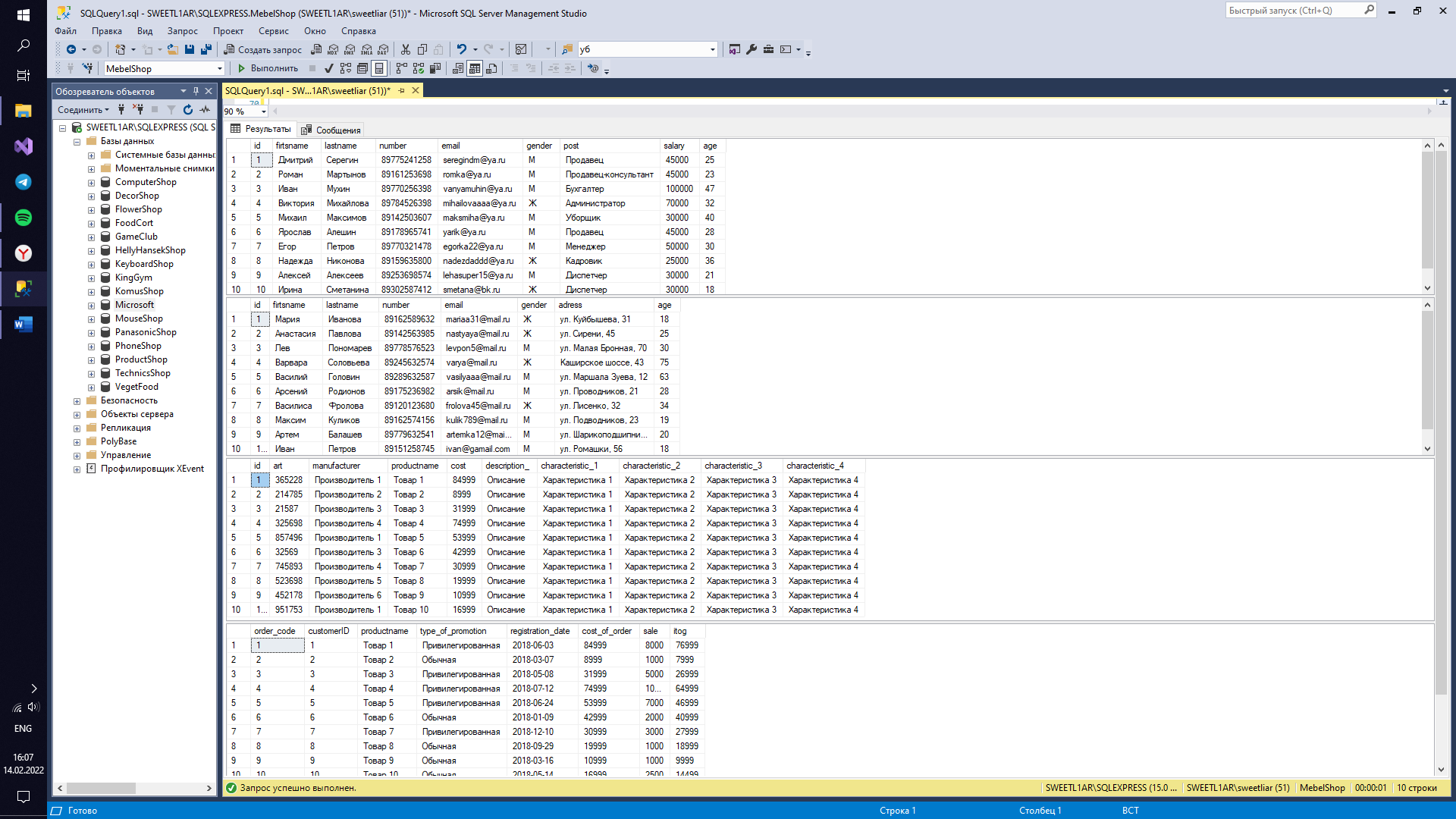
(10, 'Товар 10,', 'Обычная', '2018-05-14', 16999, 2500, 14499);

select \* from staff;

select \* from customer;

select \* from product;

select \* from cart;



use MebelShop;

update staff set salary = salary + 5000 where age > 30;

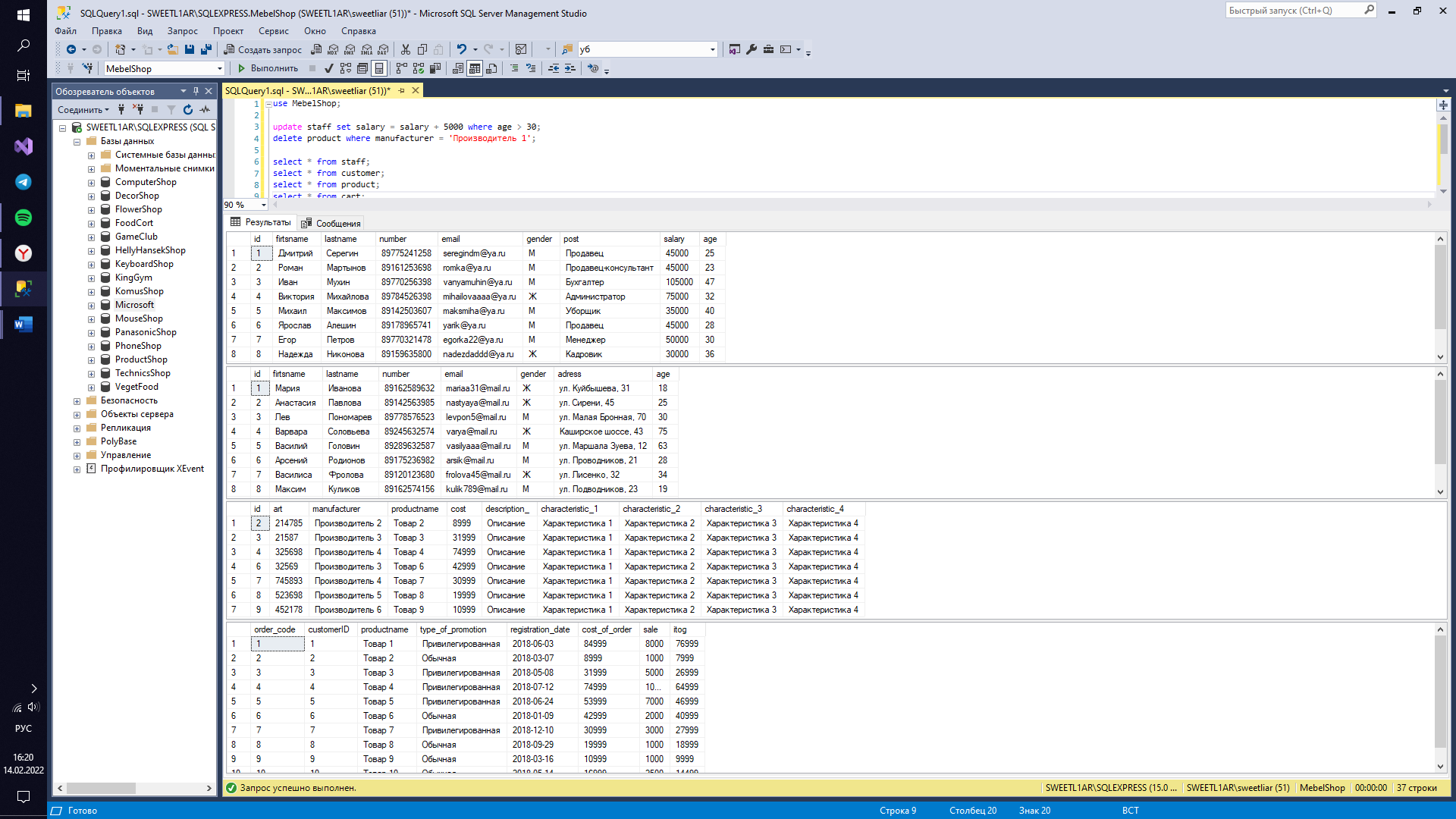
delete product where manufacturer = 'Производитель 1';

select \* from staff;

select \* from customer;

select \* from product;

select \* from cart;



use MebelShop;

select \* from staff order by age;

select age from customer where age > 30;

select number from staff;

select productname from cart where sale > 5000;

select firtsname, lastname, email from staff where post = 'Продавец' and age = 25;

select \* from product where manufacturer = 'Производитель 4' or cost > 50000;

select \* from cart order by itog;

select art from product;

select age from staff where gender = 'Ж';

select firtsname, lastname from customer where age = 18;

select \* from staff where age between 18 and 30;

select \* from product where cost between 20000 and 50000;

select \* from customer where age between 20 and 50;

select id from customer where age in (18, 20, 22, 24, 26, 28, 30);

select id, art, cost from product where manufacturer in ('Производитель 4', 'Производитель 2');

select \* from customer where email in ('mariaa31@mail.ru', 'varya@mail.ru', 'arsik@mail.ru');

select manufacturer, count(\*) as quantity from product group by manufacturer;

select age, count(\*) as quantity from customer where age > 25 and age < 60 group by age;

select manufacturer, count(\*) as quantity from product group by manufacturer having count(\*) > 0;

select avg(age) as age\_avg from staff;

select avg(cost) as avg\_cost from product where manufacturer = 'Производитель 3';

select avg(itog) as avg\_itog from cart where cost\_of\_order > 50000;

select count(age) as count\_age from customer;

select count(\*) as count\_ from cart;

select count(cost) as count\_cost from product;

select min(age) as min\_age from staff;

select min(itog) as min\_itog from cart;

select min(sale) as min\_sale from cart;

select max(age) as max\_age from customer;

select max(itog) as max\_itog from cart;

select max(cost) as max\_cost from product;

select sum(cost) as sum\_cost from product;

select sum(age) as age\_sum from customer;

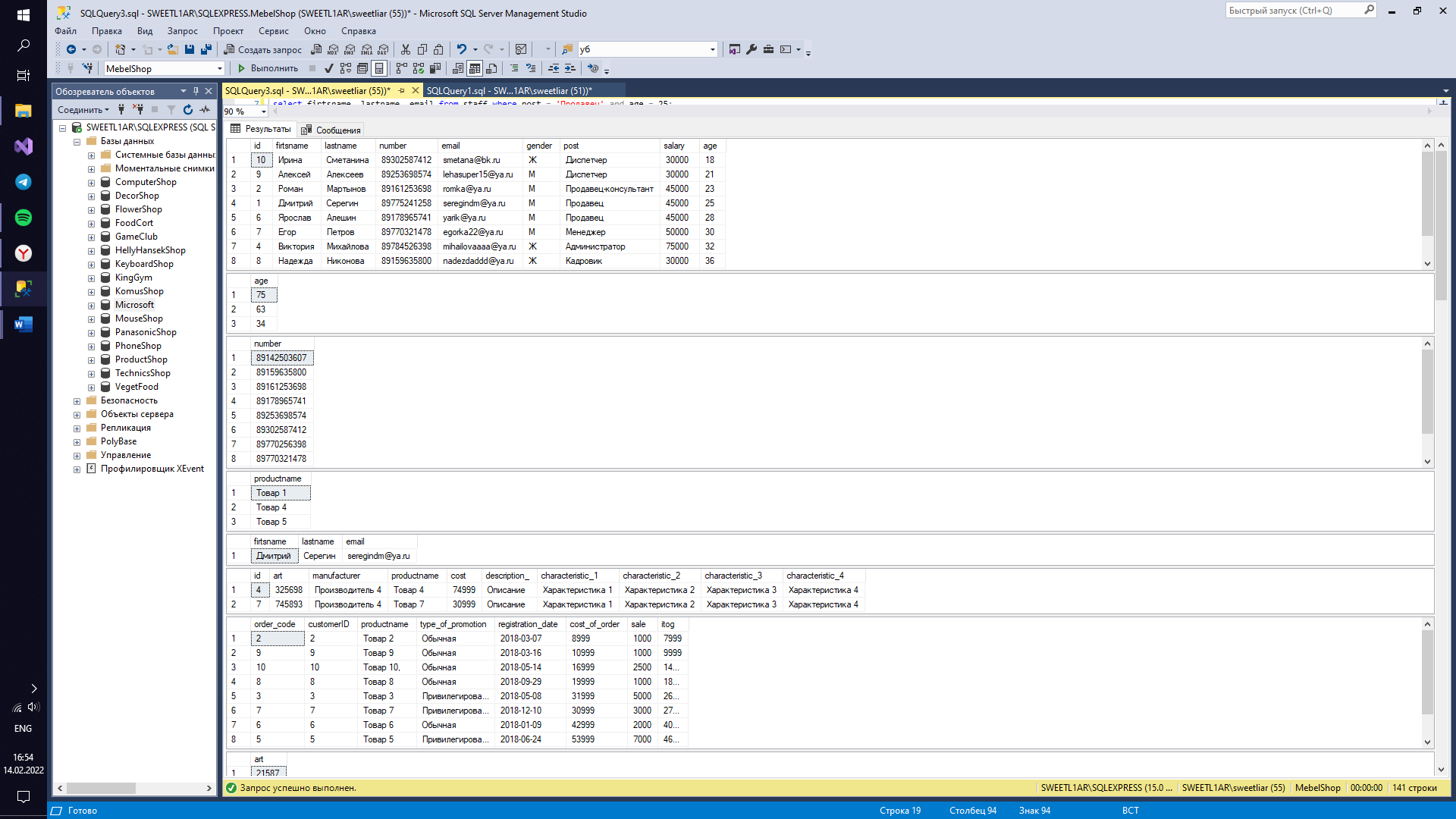
select sum(distinct sale) as sum\_sale from cart;

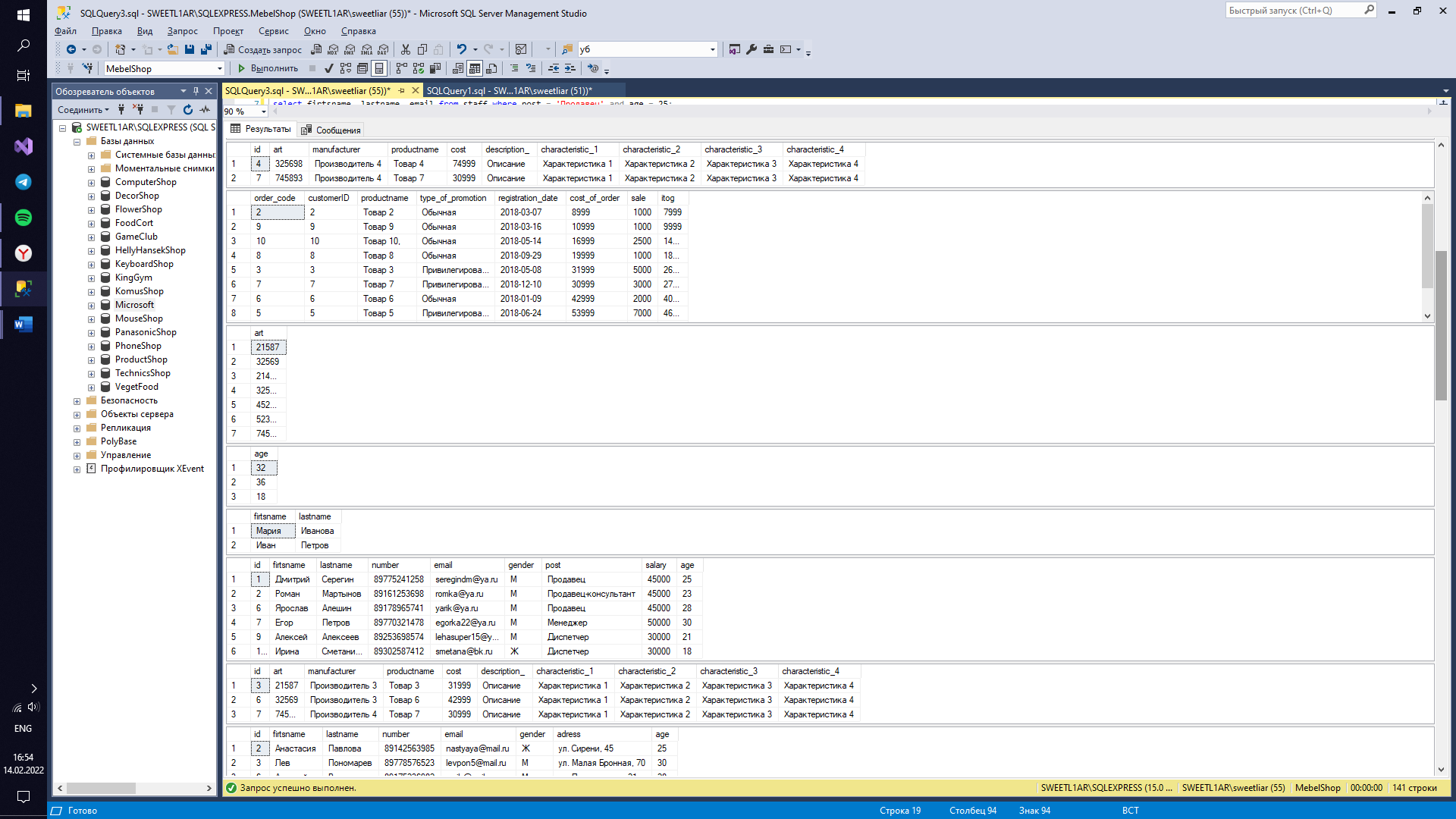
select \* from staff;

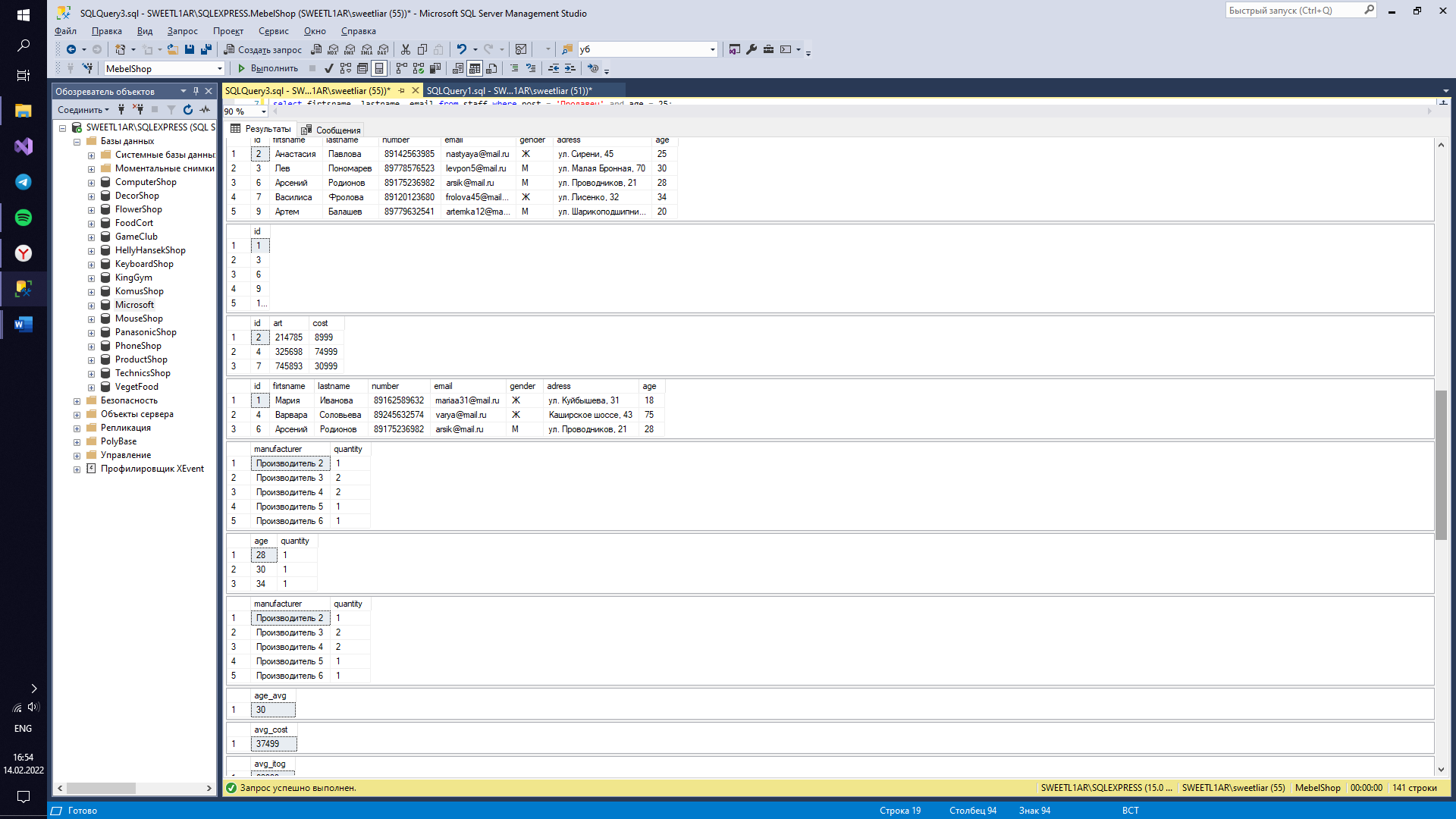
select \* from customer;

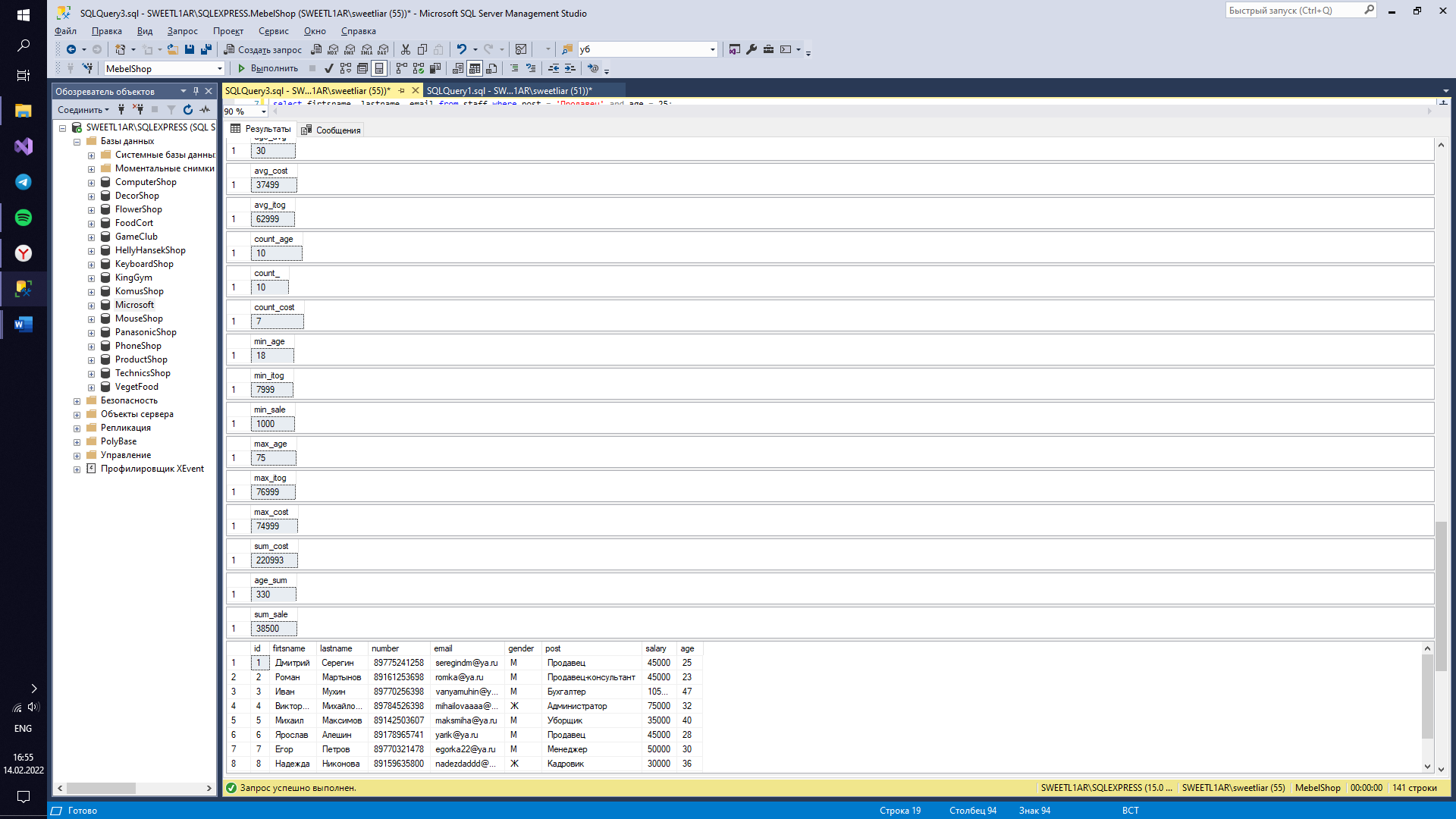
select \* from product;

select \* from cart;









Задание 6.1

create database FiitCrisp;

go

use FiitCrisp;

create table staff

(

id int primary key identity,

firtsname nvarchar(50) not null,

lastname nvarchar(50) not null,

number nvarchar(18) unique,

email nvarchar(50) unique,

gender nvarchar(1) check (gender in ('М', 'Ж')),

post nvarchar(50) not null,

salary int not null,

age int

constraint DF\_staff\_age default 18

constraint CK\_staff\_age check (Age > 0 and Age < 100)

);

insert into staff(firtsname, lastname, number, email, gender, post, salary, age) values

('Дмитрий', 'Серегин', '89775241258', 'seregindm@ya.ru', 'М', 'Продавец', 45000, 25),

('Роман', 'Мартынов', '89161253698', 'romka@ya.ru', 'М', 'Продавец-консультант', 45000, 23),

('Иван', 'Мухин', '89770256398', 'vanyamuhin@ya.ru', 'М', 'Бухгалтер', 100000, 47),

('Виктория', 'Михайлова', '89784526398', 'mihailovaaaa@ya.ru', 'Ж', 'Администратор', 70000, 32),

('Михаил', 'Максимов', '89142503607', 'maksmiha@ya.ru', 'М', 'Уборщик', 30000, 40),

('Ярослав', 'Алешин', '89178965741', 'yarik@ya.ru', 'М', 'Продавец', 45000, 28),

('Егор', 'Петров', '89770321478', 'egorka22@ya.ru', 'М', 'Менеджер', 50000, 30),

('Надежда', 'Никонова', '89159635800', 'nadezdaddd@ya.ru', 'Ж', 'Кадровик', 25000, 36),

('Алексей', 'Алексеев', '89253698574', 'lehasuper15@ya.ru', 'М', 'Диспетчер', 30000, 21),

('Ирина', 'Сметанина', '89302587412', 'smetana@bk.ru', 'Ж', 'Диспетчер', 30000, default);

create table customer

(

id int primary key identity,

firtsname nvarchar(50) not null,

lastname nvarchar(50) not null,

number nvarchar(18) unique,

email nvarchar(50) unique,

gender nvarchar(1) check (gender in ('М', 'Ж')),

adress nvarchar(90) not null,

age int

constraint DF\_customer\_age default 18

);

insert into customer(firtsname, lastname, number, email, gender, adress, age) values

('Мария', 'Иванова', '89162589632', 'mariaa31@mail.ru', 'Ж', 'ул. Куйбышева, 31', default),

('Анастасия', 'Павлова', '89142563985', 'nastyaya@mail.ru', 'Ж', 'ул. Сирени, 45', 25),

('Лев', 'Пономарев', '89778576523', 'levpon5@mail.ru', 'М', 'ул. Малая Бронная, 70', 30),

('Варвара', 'Соловьева', '89245632574', 'varya@mail.ru', 'Ж', 'Каширское шоссе, 43', 75),

('Василий', 'Головин', '89289632587', 'vasilyaaa@mail.ru', 'М', 'ул. Маршала Зуева, 12', 63),

('Арсений', 'Родионов', '89175236982', 'arsik@mail.ru', 'М', 'ул. Проводников, 21', 28),

('Василиса', 'Фролова', '89120123680', 'frolova45@mail.ru', 'Ж', 'ул. Лисенко, 32', 34),

('Максим', 'Куликов', '89162574156', 'kulik789@mail.ru', 'М', 'ул. Подводников, 23', 19),

('Артем', 'Балашев', '89779632541', 'artemka12@mail.ru', 'М', 'ул. Шарикоподшипниковская, 3', 20),

('Иван', 'Петров', '89151258745', 'ivan@gamail.com', 'М', 'ул. Ромашки, 56', default);

create table product

(

id int primary key identity(1, 1),

art int unique,

manufacturer nvarchar(100),

productname nvarchar(100) not null,

cost int check (cost > 0) not null,

description\_ nvarchar(100) not null,

characteristic\_1 nvarchar(50),

characteristic\_2 nvarchar(50),

characteristic\_3 nvarchar(50),

characteristic\_4 nvarchar(50)

);

insert into product(art, manufacturer, productname, cost, description\_, characteristic\_1, characteristic\_2, characteristic\_3, characteristic\_4) values

(365228, 'Производитель 1', 'Товар 1', 84999, 'Описание', 'Характеристика 1', 'Характеристика 2', 'Характеристика 3', 'Характеристика 4'),

(214785, 'Производитель 2', 'Товар 2', 8999, 'Описание', 'Характеристика 1', 'Характеристика 2', 'Характеристика 3', 'Характеристика 4'),

(021587, 'Производитель 3', 'Товар 3', 31999, 'Описание', 'Характеристика 1', 'Характеристика 2', 'Характеристика 3', 'Характеристика 4'),

(325698, 'Производитель 4', 'Товар 4', 74999, 'Описание', 'Характеристика 1', 'Характеристика 2', 'Характеристика 3', 'Характеристика 4'),

(857496, 'Производитель 1', 'Товар 5', 53999, 'Описание', 'Характеристика 1', 'Характеристика 2', 'Характеристика 3', 'Характеристика 4'),

(032569, 'Производитель 3', 'Товар 6', 42999, 'Описание', 'Характеристика 1', 'Характеристика 2', 'Характеристика 3', 'Характеристика 4'),

(745893, 'Производитель 4', 'Товар 7', 30999, 'Описание', 'Характеристика 1', 'Характеристика 2', 'Характеристика 3', 'Характеристика 4'),

(523698, 'Производитель 5', 'Товар 8', 19999, 'Описание', 'Характеристика 1', 'Характеристика 2', 'Характеристика 3', 'Характеристика 4'),

(452178, 'Производитель 6', 'Товар 9', 10999, 'Описание', 'Характеристика 1', 'Характеристика 2', 'Характеристика 3', 'Характеристика 4'),

(951753, 'Производитель 1', 'Товар 10', 16999, 'Описание', 'Характеристика 1', 'Характеристика 2', 'Характеристика 3', 'Характеристика 4');

create table cart

(

order\_code int primary key identity(1, 1),

customerID int references customer (id),

productname nvarchar(100),

type\_of\_promotion nvarchar(50) check (type\_of\_promotion in ('Обычная', 'Привилегированная')),

registration\_date date not null,

cost\_of\_order int check (cost\_of\_order > 0) not null,

sale int,

itog int

);

insert into cart(customerID, productname, type\_of\_promotion, registration\_date, cost\_of\_order, sale, itog) values

(1, 'Товар 1', 'Привилегированная', '2018-06-03', 84999, 8000, 76999),

(2, 'Товар 2', 'Обычная', '2018-03-07', 8999, 1000, 7999),

(3, 'Товар 3', 'Привилегированная', '2018-05-08', 31999, 5000, 26999),

(4, 'Товар 4', 'Привилегированная', '2018-07-12', 74999, 10000, 64999),

(5, 'Товар 5', 'Привилегированная', '2018-06-24', 53999, 7000, 46999),

(6, 'Товар 6', 'Обычная', '2018-01-09', 42999, 2000, 40999),

(7, 'Товар 7', 'Привилегированная', '2018-12-10', 30999, 3000, 27999),

(8, 'Товар 8', 'Обычная', '2018-09-29', 19999, 1000, 18999),

(9, 'Товар 9', 'Обычная', '2018-03-16', 10999, 1000, 9999),

(10, 'Товар 10,', 'Обычная', '2018-05-14', 16999, 2500, 14499);

create table orders

(

id int primary key identity,

orderID int references cart (order\_code),

productname nvarchar(200),

delivery\_or\_pickup nvarchar(70) check (delivery\_or\_pickup in ('Самовывоз', 'Доставка'))not null,

cost\_of\_order int check (cost\_of\_order > 0) not null,

sale int,

itog int,

quantity int check (quantity > 0),

registration\_date date not null,

);

insert into orders(orderID, productname, delivery\_or\_pickup, cost\_of\_order, sale, itog, quantity, registration\_date) values

(1, 'Товар 1', 'Самовывоз', 84999, 8000, 76999, 1, '2018-06-03'),

(2, 'Товар 2', 'Доставка', 8999, 1000, 7999, 1, '2018-03-07'),

(3, 'Товар 3', 'Самовывоз', 31999, 5000, 26999, 1, '2018-05-08'),

(4, 'Товар 4', 'Самовывоз', 74999, 10000, 64999, 1, '2018-07-12'),

(5, 'Товар 5', 'Доставка', 53999, 7000, 46999, 1, '2018-06-24'),

(6, 'Товар 6', 'Самовывоз', 42999, 2000, 40999, 1, '2018-01-09'),

(7, 'Товар 7', 'Доставка', 30999, 3000, 27999, 1, '2018-12-10'),

(8, 'Товар 8', 'Доставка', 19999, 1000, 18999, 1, '2018-09-29'),

(9, 'Товар 9', 'Самовывоз', 10999, 0, 10999, 1, '2018-03-16'),

(10, 'Товар 10', 'Доставка', 16999, 2500, 14499, 1, '2018-05-14');

create table stock

(

id int primary key identity,

name\_of\_the\_promotion nvarchar(50),

product nvarchar(50),

price\_without\_promotion int,

price\_with\_stock int,

discount int,

start\_data date,

end\_data date,

type\_of\_promotion nvarchar(50) check (type\_of\_promotion in ('Обычная', 'Привилегированная'))

);

insert into stock(name\_of\_the\_promotion, product, price\_without\_promotion, discount, price\_with\_stock, start\_data, end\_data, type\_of\_promotion) values

('Акция 1', 'Товар 1', 84999, 8000, 76999, '2018-05-10', '2018-10-10', 'Привилегированная'),

('Акция 2', 'Товар 2', 8999, 1000, 7999, '2018-05-10', '2018-10-10', 'Обычная'),

('Акция 3', 'Товар 3', 31999, 5000, 26999, '2018-05-10', '2018-10-10', 'Привилегированная'),

('Акция 4', 'Товар 4', 74999, 10000, 64999, '2018-05-10', '2018-10-10', 'Привилегированная'),

('Акция 5', 'Товар 5', 53999, 7000, 46999, '2018-05-10', '2018-10-10', 'Привилегированная'),

('Акция 6', 'Товар 6', 42999, 2000, 40999, '2018-05-10', '2018-10-10', 'Обычная'),

('Акция 7', 'Товар 7', 30999, 3000, 27999, '2018-05-10', '2018-10-10', 'Привилегированная'),

('Акция 8', 'Товар 8', 19999, 1000, 18999, '2018-05-10', '2018-10-10', 'Обычная'),

('Акция 9', 'Товар 9', 10999, 1000, 9999, '2018-05-10', '2018-10-10', 'Обычная'),

('Акция 10', 'Товар 10', 16999, 2500, 14499, '2018-05-10', '2018-10-10', 'Обычная');

select \* from staff;

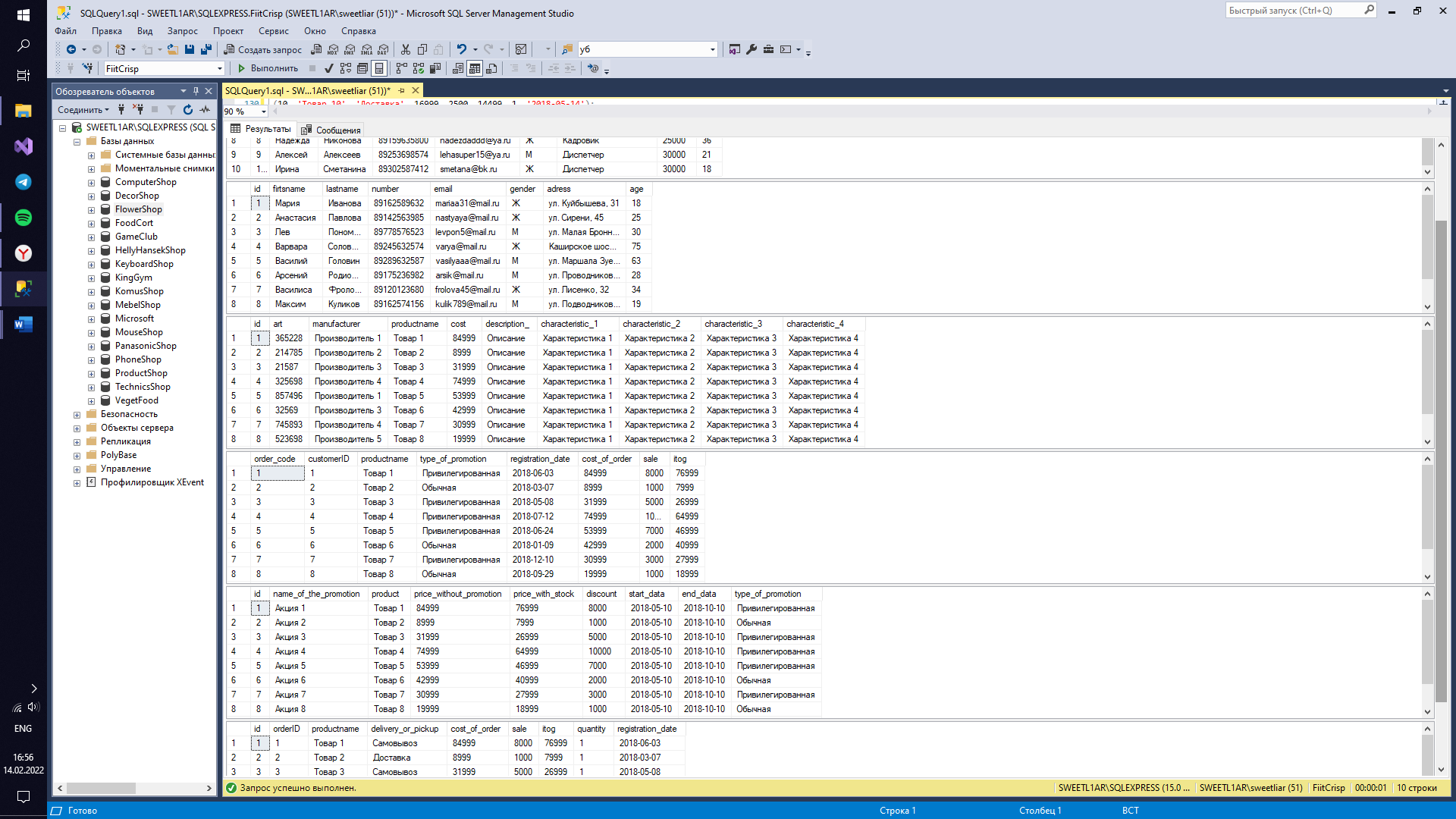
select \* from customer;

select \* from product;

select \* from cart;

select \* from stock;

select \* from orders;



use FiitCrisp;

update staff set age = age + 2 where age > 20;

delete product where manufacturer = 'Производитель 6';

select \* from staff order by age;

select age from customer where age > 30;

select number from staff;

select productname from cart where sale > 5000;

select firtsname, lastname, email from staff where post = 'Продавец' and age > 20;

select \* from product where manufacturer = 'Производитель 3' or cost < 70000;

select \* from cart order by sale;

select art, cost from product order by art;

select age from staff where gender = 'М';

select firtsname, lastname from customer where age = 18;

select name\_of\_the\_promotion from stock where type\_of\_promotion = 'Обычная';

select \* from orders where delivery\_or\_pickup = 'Доставка' and cost\_of\_order > 20000;

select id from stock where discount = 10000;

select \* from orders order by registration\_date;

select productname from cart order by registration\_date;

select \* from staff where age between 18 and 30;

select \* from product where cost between 20000 and 50000;

select \* from customer where age between 20 and 50;

select productname from orders where sale between 1000 and 5000;

select \* from orders where cost\_of\_order between 20000 and 70000;

select \* from stock where discount between 0 and 35000;

select id from customer where age in (18, 20, 22, 24, 26, 28, 30);

select id, art, cost from product where manufacturer in ('Производитель 4', 'Производитель 2');

select \* from customer where email in ('mariaa31@mail.ru', 'varya@mail.ru', 'arsik@mail.ru');

select \* from orders where sale in (2000, 3000, 5000, 7000);

select \* from stock where name\_of\_the\_promotion in ('Акция 2', 'Акция 7', 'Акция 9');

select order\_code from cart where itog in (76999, 7999, 27999);

select avg(age) as age\_avg from customer;

select avg(cost) as avg\_cost from product where manufacturer = 'Производитель 1';

select avg(itog) as avg\_itog from cart where cost\_of\_order > 20000;

select avg(sale) as avg\_sale from orders;

select avg(discount) as avg\_disc from stock;

select avg(cost\_of\_order) as avg\_coo from cart;

select count(age) as count\_age from customer;

select count(\*) as count\_ from cart;

select count(cost) as count\_cost from product;

select count(itog) as count\_itog from cart;

select count(\*) as count\_sale from cart;

select count(\*) as count\_all from orders;

select min(age) as min\_age from customer;

select min(itog) as min\_itog from cart;

select min(sale) as min\_sale from cart;

select min(cost\_of\_order) as min\_coo from orders;

select min(distinct age) as min\_age\_staff from staff;

select min(registration\_date) as min\_regdate from orders;

select max(age) as max\_age from staff;

select max(itog) as max\_itog from cart;

select max(distinct cost) as max\_cost from product;

select max(registration\_date) as max\_regdate from orders;

select max(age) as max\_age\_cust from customer;

select max(sale) as max\_sale from cart;

select sum(cost) as sum\_cost from product;

select sum(age) as age\_sum from customer;

select sum(distinct sale) as sum\_sale from cart;

select sum(age) as sum\_age\_staff from staff;

select sum(itog) as sum\_itog from orders;

select sum(price\_with\_stock) as sum\_pws from stock;

select manufacturer, count(\*) as quantity from product group by manufacturer order by quantity desc;

select age, count(\*) as quantity from customer where age > 18 and age < 50 group by age;

select type\_of\_promotion, count(\*) as quantity from cart group by type\_of\_promotion having count(\*) > 0;

select sale, count(\*) as sale\_ from cart group by sale having count(\*) > 1;

select discount, count(\*) as discount\_quantity from stock group by discount order by discount;

select age, count(\*) as age\_quantity from staff group by age having count(\*) >= 1;

select \* from staff;

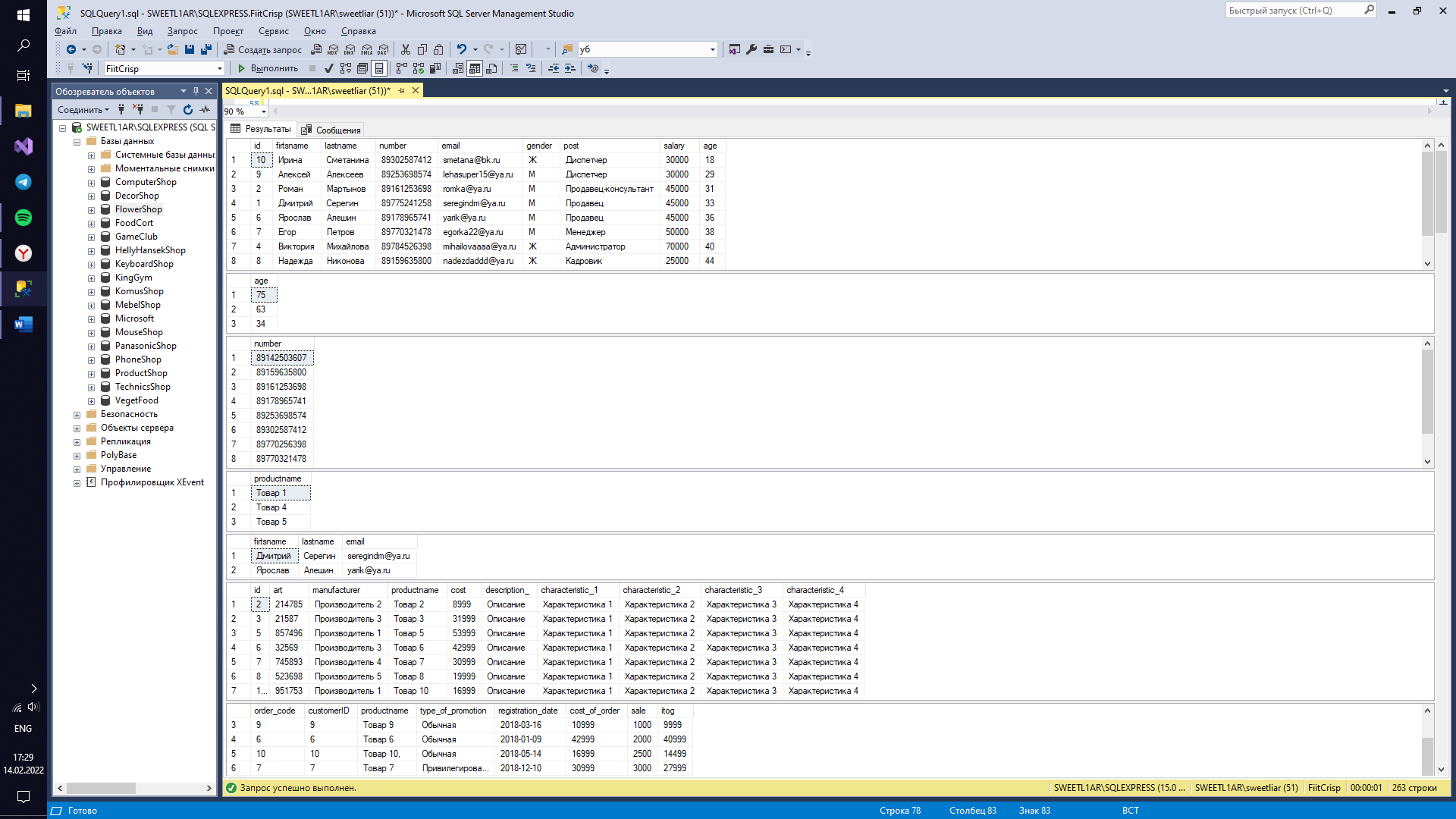
select \* from customer;

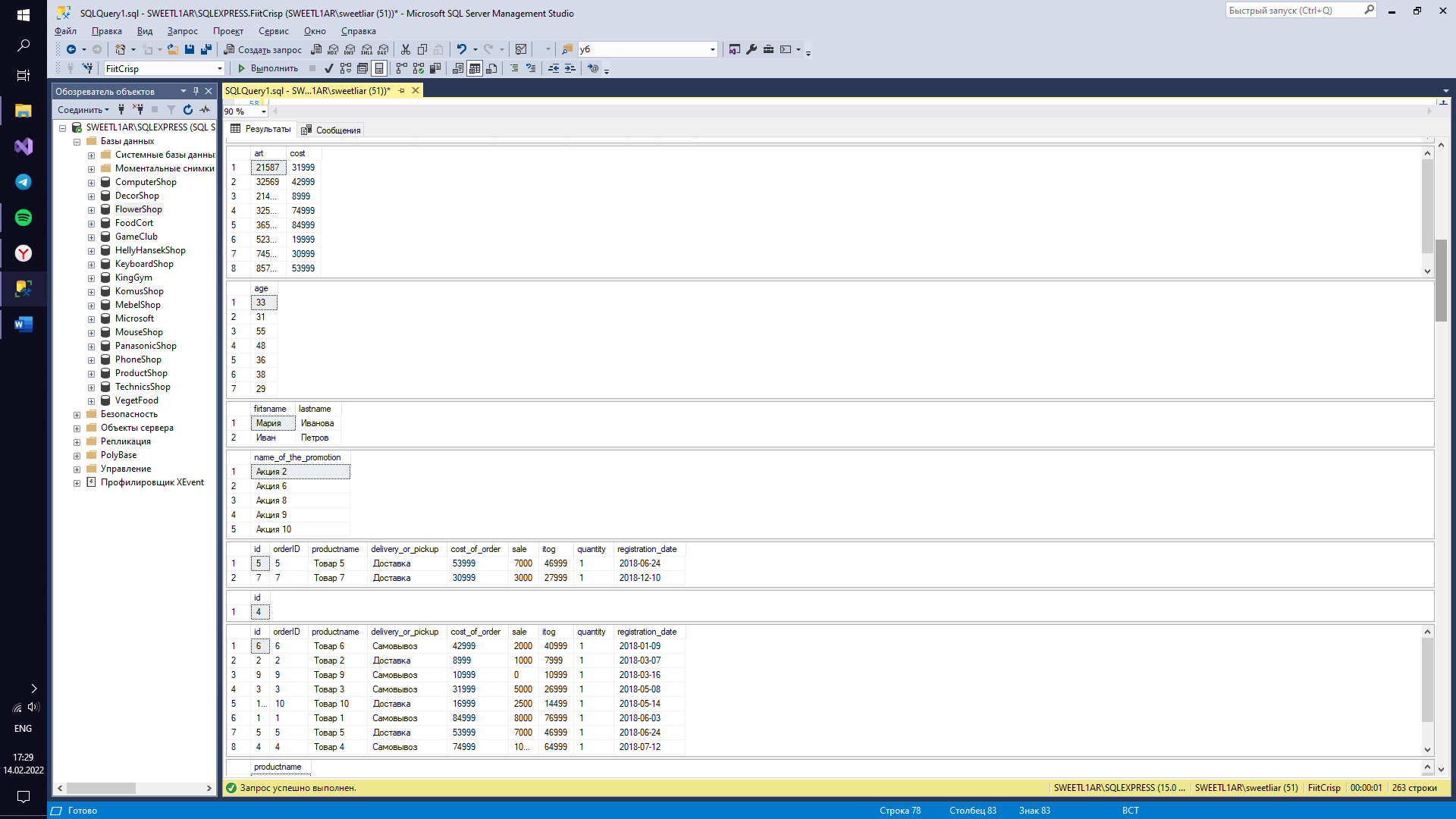
select \* from product;

select \* from cart;

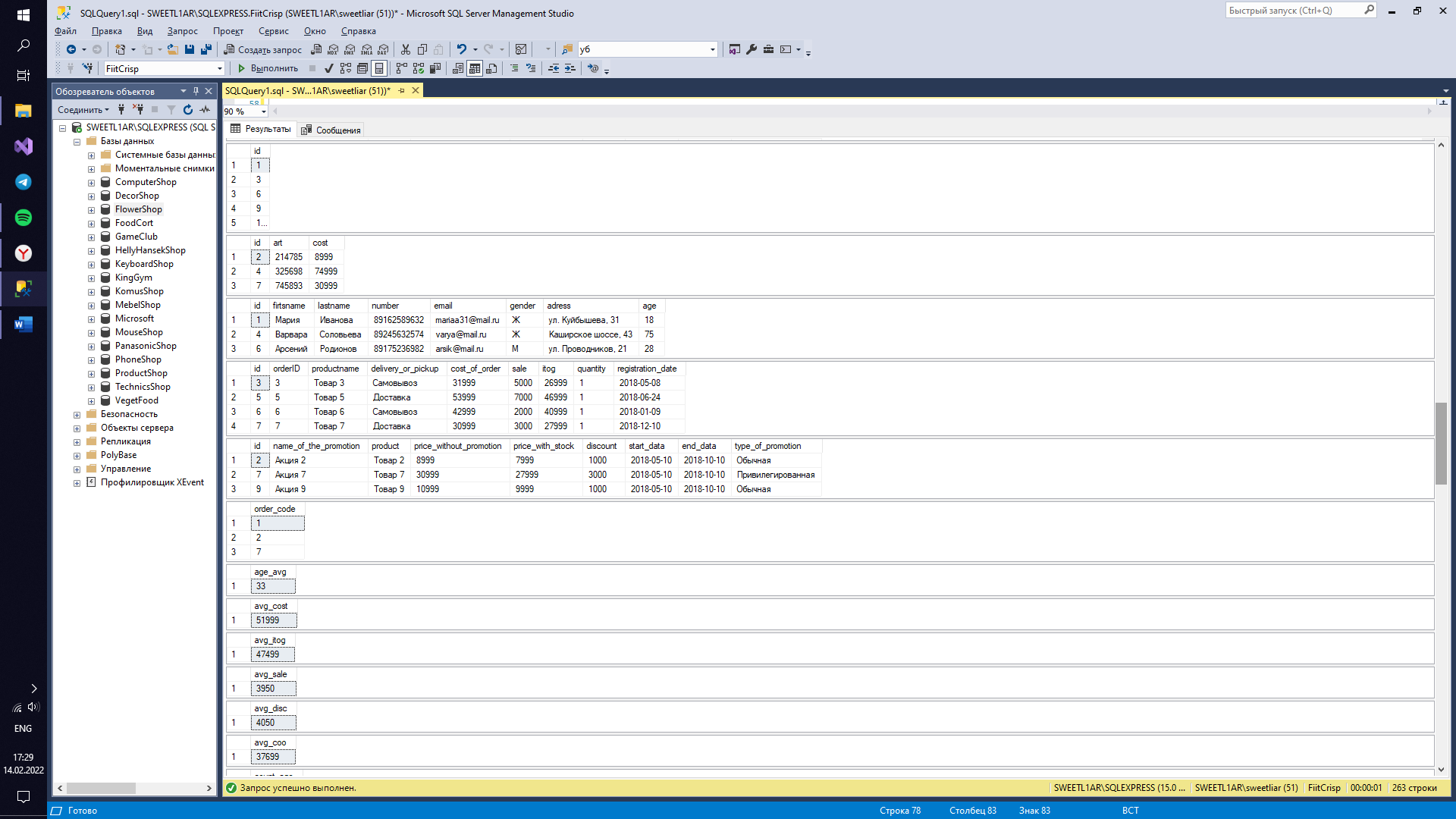
select \* from stock;

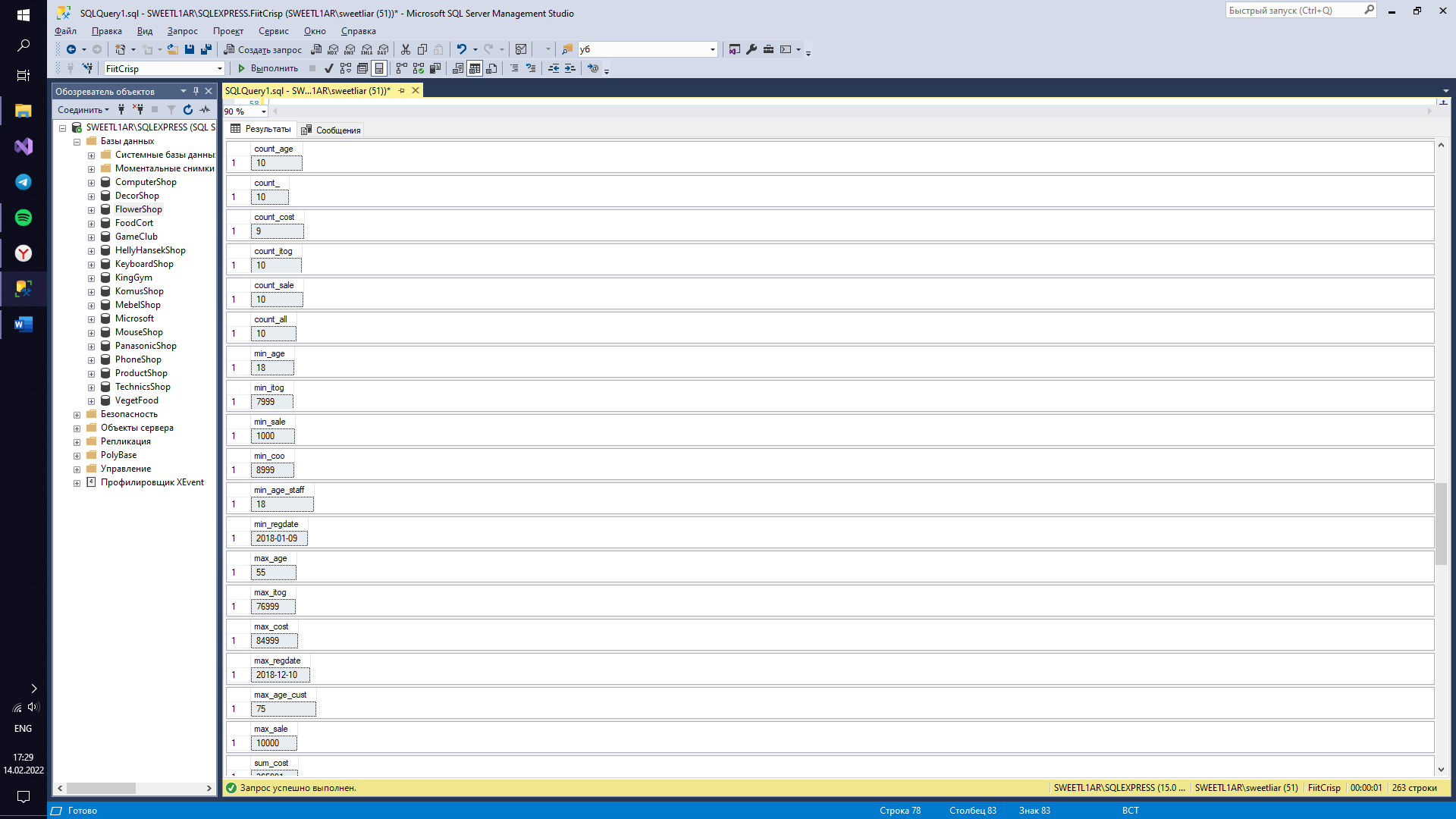
select \* from orders;

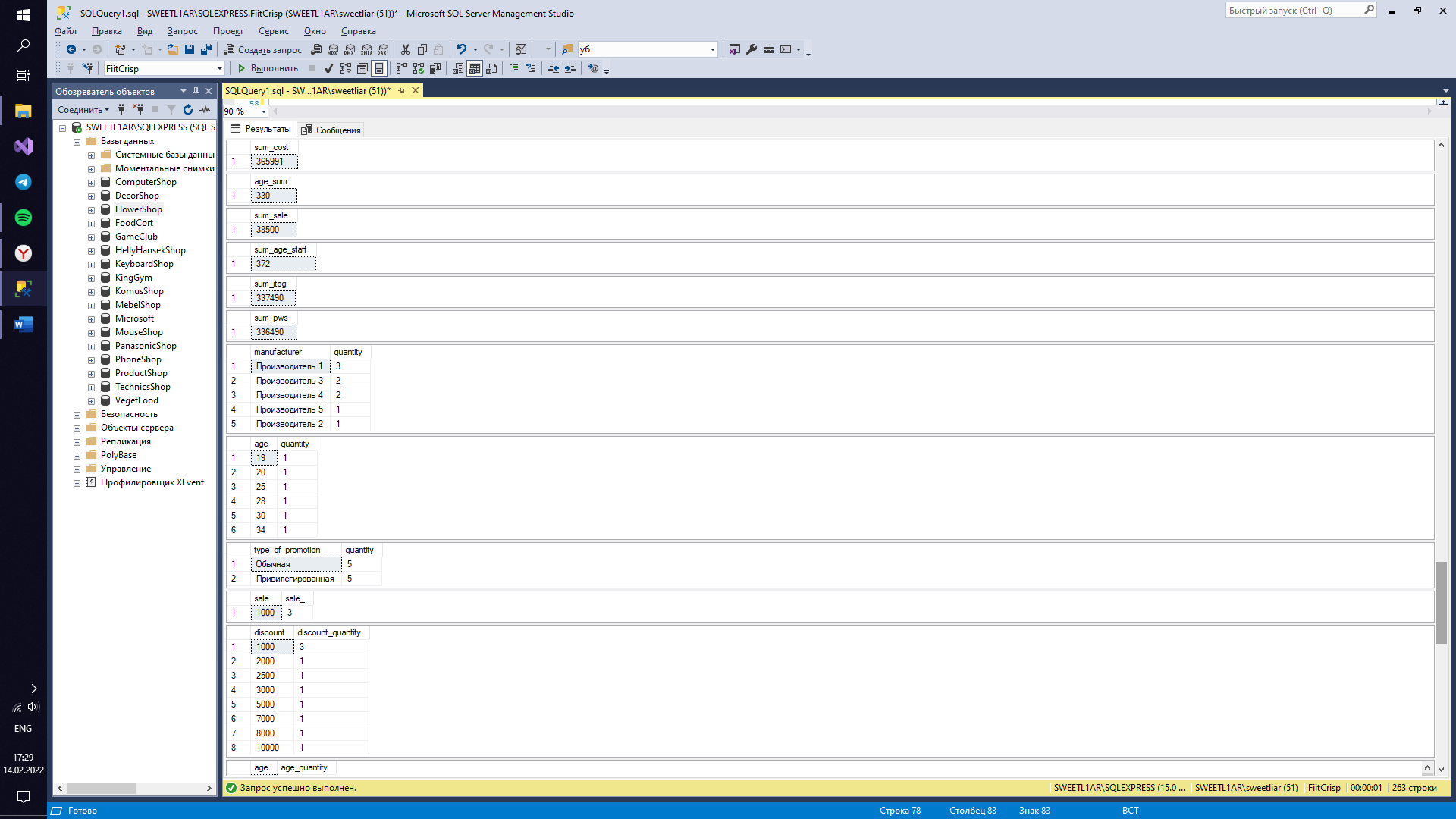


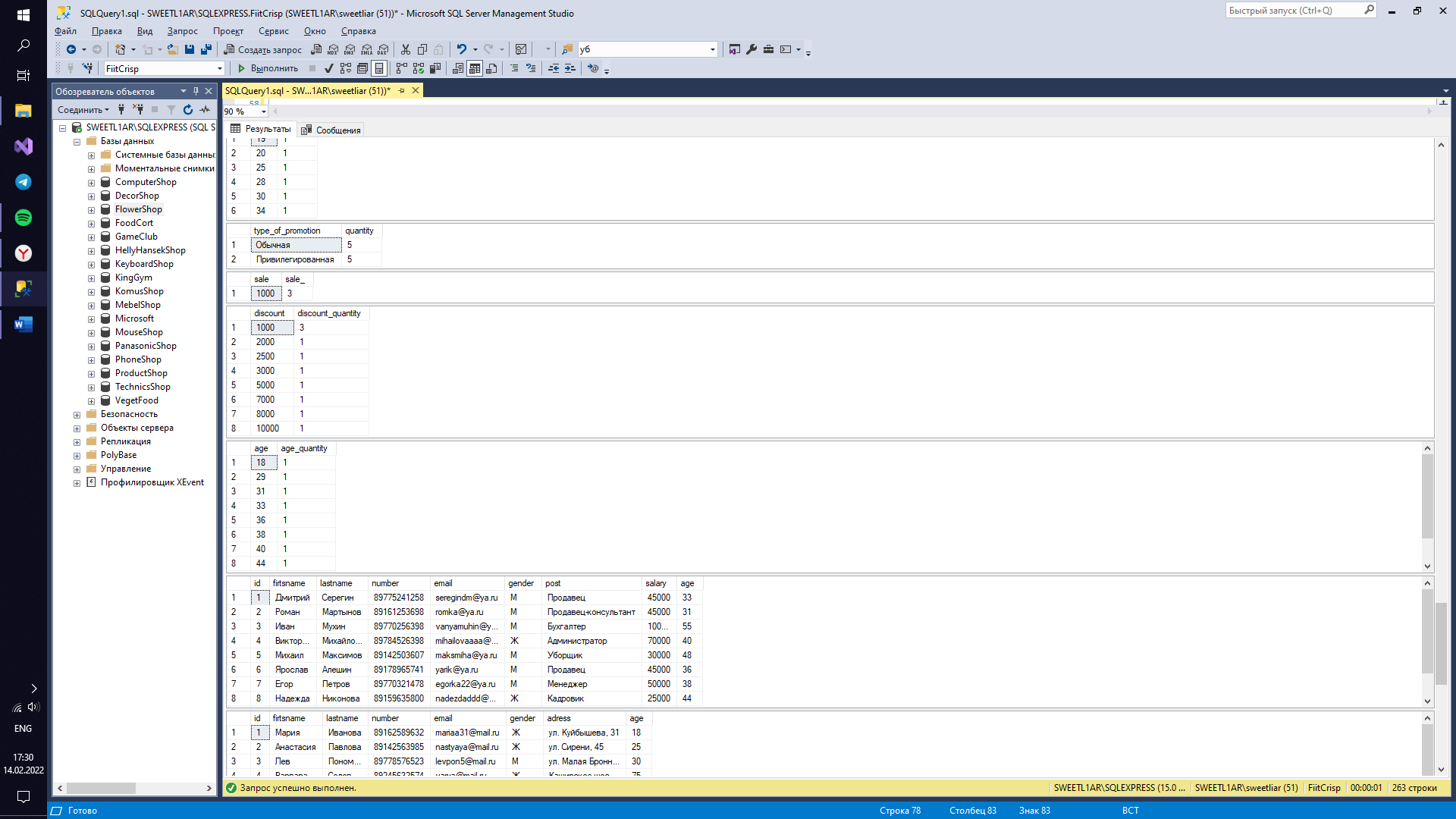












Задание 6.2

create database WaterComp;

go

use WaterComp;

create table staff

(

id int primary key identity,

firtsname nvarchar(50) not null,

lastname nvarchar(50) not null,

number nvarchar(18) unique,

email nvarchar(50) unique,

gender nvarchar(1) check (gender in ('М', 'Ж')),

post nvarchar(50) not null,

salary int not null,

age int

constraint DF\_staff\_age default 18

constraint CK\_staff\_age check (Age > 0 and Age < 100)

);

insert into staff(firtsname, lastname, number, email, gender, post, salary, age) values

('Дмитрий', 'Серегин', '89775241258', 'seregindm@ya.ru', 'М', 'Продавец', 45000, 25),

('Роман', 'Мартынов', '89161253698', 'romka@ya.ru', 'М', 'Продавец-консультант', 45000, 23),

('Иван', 'Мухин', '89770256398', 'vanyamuhin@ya.ru', 'М', 'Бухгалтер', 100000, 47),

('Виктория', 'Михайлова', '89784526398', 'mihailovaaaa@ya.ru', 'Ж', 'Администратор', 70000, 32),

('Михаил', 'Максимов', '89142503607', 'maksmiha@ya.ru', 'М', 'Уборщик', 30000, 40),

('Ярослав', 'Алешин', '89178965741', 'yarik@ya.ru', 'М', 'Продавец', 45000, 28),

('Егор', 'Петров', '89770321478', 'egorka22@ya.ru', 'М', 'Менеджер', 50000, 30),

('Надежда', 'Никонова', '89159635800', 'nadezdaddd@ya.ru', 'Ж', 'Кадровик', 25000, 36),

('Алексей', 'Алексеев', '89253698574', 'lehasuper15@ya.ru', 'М', 'Диспетчер', 30000, 21),

('Ирина', 'Сметанина', '89302587412', 'smetana@bk.ru', 'Ж', 'Диспетчер', 30000, default);

create table customer

(

id int primary key identity,

firtsname nvarchar(50) not null,

lastname nvarchar(50) not null,

number nvarchar(18) unique,

email nvarchar(50) unique,

gender nvarchar(1) check (gender in ('М', 'Ж')),

adress nvarchar(90) not null,

age int

constraint DF\_customer\_age default 18

);

insert into customer(firtsname, lastname, number, email, gender, adress, age) values

('Мария', 'Иванова', '89162589632', 'mariaa31@mail.ru', 'Ж', 'ул. Куйбышева, 31', default),

('Анастасия', 'Павлова', '89142563985', 'nastyaya@mail.ru', 'Ж', 'ул. Сирени, 45', 25),

('Лев', 'Пономарев', '89778576523', 'levpon5@mail.ru', 'М', 'ул. Малая Бронная, 70', 30),

('Варвара', 'Соловьева', '89245632574', 'varya@mail.ru', 'Ж', 'Каширское шоссе, 43', 75),

('Василий', 'Головин', '89289632587', 'vasilyaaa@mail.ru', 'М', 'ул. Маршала Зуева, 12', 63),

('Арсений', 'Родионов', '89175236982', 'arsik@mail.ru', 'М', 'ул. Проводников, 21', 28),

('Василиса', 'Фролова', '89120123680', 'frolova45@mail.ru', 'Ж', 'ул. Лисенко, 32', 34),

('Максим', 'Куликов', '89162574156', 'kulik789@mail.ru', 'М', 'ул. Подводников, 23', 19),

('Артем', 'Балашев', '89779632541', 'artemka12@mail.ru', 'М', 'ул. Шарикоподшипниковская, 3', 20),

('Иван', 'Петров', '89151258745', 'ivan@gamail.com', 'М', 'ул. Ромашки, 56', default);

create table product

(

id int primary key identity(1, 1),

art int unique,

manufacturer nvarchar(100),

productname nvarchar(100) not null,

cost int check (cost > 0) not null,

description\_ nvarchar(100) not null,

characteristic\_1 nvarchar(50),

characteristic\_2 nvarchar(50),

characteristic\_3 nvarchar(50),

characteristic\_4 nvarchar(50)

);

insert into product(art, manufacturer, productname, cost, description\_, characteristic\_1, characteristic\_2, characteristic\_3, characteristic\_4) values

(365228, 'Производитель 1', 'Товар 1', 84999, 'Описание', 'Характеристика 1', 'Характеристика 2', 'Характеристика 3', 'Характеристика 4'),

(214785, 'Производитель 2', 'Товар 2', 8999, 'Описание', 'Характеристика 1', 'Характеристика 2', 'Характеристика 3', 'Характеристика 4'),

(021587, 'Производитель 3', 'Товар 3', 31999, 'Описание', 'Характеристика 1', 'Характеристика 2', 'Характеристика 3', 'Характеристика 4'),

(325698, 'Производитель 4', 'Товар 4', 74999, 'Описание', 'Характеристика 1', 'Характеристика 2', 'Характеристика 3', 'Характеристика 4'),

(857496, 'Производитель 1', 'Товар 5', 53999, 'Описание', 'Характеристика 1', 'Характеристика 2', 'Характеристика 3', 'Характеристика 4'),

(032569, 'Производитель 3', 'Товар 6', 42999, 'Описание', 'Характеристика 1', 'Характеристика 2', 'Характеристика 3', 'Характеристика 4'),

(745893, 'Производитель 4', 'Товар 7', 30999, 'Описание', 'Характеристика 1', 'Характеристика 2', 'Характеристика 3', 'Характеристика 4'),

(523698, 'Производитель 5', 'Товар 8', 19999, 'Описание', 'Характеристика 1', 'Характеристика 2', 'Характеристика 3', 'Характеристика 4'),

(452178, 'Производитель 6', 'Товар 9', 10999, 'Описание', 'Характеристика 1', 'Характеристика 2', 'Характеристика 3', 'Характеристика 4'),

(951753, 'Производитель 1', 'Товар 10', 16999, 'Описание', 'Характеристика 1', 'Характеристика 2', 'Характеристика 3', 'Характеристика 4');

create table cart

(

order\_code int primary key identity(1, 1),

customerID int references customer (id),

productname nvarchar(100),

type\_of\_promotion nvarchar(50) check (type\_of\_promotion in ('Обычная', 'Привилегированная')),

registration\_date date not null,

cost\_of\_order int check (cost\_of\_order > 0) not null,

sale int,

itog int

);

insert into cart(customerID, productname, type\_of\_promotion, registration\_date, cost\_of\_order, sale, itog) values

(1, 'Товар 1', 'Привилегированная', '2018-06-03', 84999, 8000, 76999),

(2, 'Товар 2', 'Обычная', '2018-03-07', 8999, 1000, 7999),

(3, 'Товар 3', 'Привилегированная', '2018-05-08', 31999, 5000, 26999),

(4, 'Товар 4', 'Привилегированная', '2018-07-12', 74999, 10000, 64999),

(5, 'Товар 5', 'Привилегированная', '2018-06-24', 53999, 7000, 46999),

(6, 'Товар 6', 'Обычная', '2018-01-09', 42999, 2000, 40999),

(7, 'Товар 7', 'Привилегированная', '2018-12-10', 30999, 3000, 27999),

(8, 'Товар 8', 'Обычная', '2018-09-29', 19999, 1000, 18999),

(9, 'Товар 9', 'Обычная', '2018-03-16', 10999, 1000, 9999),

(10, 'Товар 10,', 'Обычная', '2018-05-14', 16999, 2500, 14499);

create table orders

(

id int primary key identity,

orderID int references cart (order\_code),

productname nvarchar(200),

delivery\_or\_pickup nvarchar(70) check (delivery\_or\_pickup in ('Самовывоз', 'Доставка'))not null,

cost\_of\_order int check (cost\_of\_order > 0) not null,

sale int,

itog int,

quantity int check (quantity > 0),

registration\_date date not null,

);

insert into orders(orderID, productname, delivery\_or\_pickup, cost\_of\_order, sale, itog, quantity, registration\_date) values

(1, 'Товар 1', 'Самовывоз', 84999, 8000, 76999, 1, '2018-06-03'),

(2, 'Товар 2', 'Доставка', 8999, 1000, 7999, 1, '2018-03-07'),

(3, 'Товар 3', 'Самовывоз', 31999, 5000, 26999, 1, '2018-05-08'),

(4, 'Товар 4', 'Самовывоз', 74999, 10000, 64999, 1, '2018-07-12'),

(5, 'Товар 5', 'Доставка', 53999, 7000, 46999, 1, '2018-06-24'),

(6, 'Товар 6', 'Самовывоз', 42999, 2000, 40999, 1, '2018-01-09'),

(7, 'Товар 7', 'Доставка', 30999, 3000, 27999, 1, '2018-12-10'),

(8, 'Товар 8', 'Доставка', 19999, 1000, 18999, 1, '2018-09-29'),

(9, 'Товар 9', 'Самовывоз', 10999, 0, 10999, 1, '2018-03-16'),

(10, 'Товар 10', 'Доставка', 16999, 2500, 14499, 1, '2018-05-14');

create table stock

(

id int primary key identity,

name\_of\_the\_promotion nvarchar(50),

product nvarchar(50) not null,

price\_without\_promotion int not null,

price\_with\_stock int not null,

discount int check (discount > 0),

start\_data date,

end\_data date,

type\_of\_promotion nvarchar(50) check (type\_of\_promotion in ('Обычная', 'Привилегированная'))

);

insert into stock(name\_of\_the\_promotion, product, price\_without\_promotion, discount, price\_with\_stock, start\_data, end\_data, type\_of\_promotion) values

('Акция 1', 'Товар 1', 84999, 8000, 76999, '2018-08-10', '2018-10-10', 'Привилегированная'),

('Акция 2', 'Товар 2', 8999, 1000, 7999, '2018-05-10', '2018-10-10', 'Обычная'),

('Акция 3', 'Товар 3', 31999, 5000, 26999, '2018-05-10', '2018-10-10', 'Привилегированная'),

('Акция 4', 'Товар 4', 74999, 10000, 64999, '2018-05-10', '2018-08-10', 'Привилегированная'),

('Акция 5', 'Товар 5', 53999, 7000, 46999, '2018-05-10', '2018-11-10', 'Привилегированная'),

('Акция 6', 'Товар 6', 42999, 2000, 40999, '2018-07-10', '2018-11-10', 'Обычная'),

('Акция 7', 'Товар 7', 30999, 3000, 27999, '2018-06-10', '2018-10-10', 'Привилегированная'),

('Акция 8', 'Товар 8', 19999, 1000, 18999, '2018-05-10', '2018-12-10', 'Обычная'),

('Акция 9', 'Товар 9', 10999, 1000, 9999, '2018-03-10', '2018-12-10', 'Обычная'),

('Акция 10', 'Товар 10', 16999, 2500, 14499, '2018-05-10', '2018-09-10', 'Обычная');

select \* from staff;

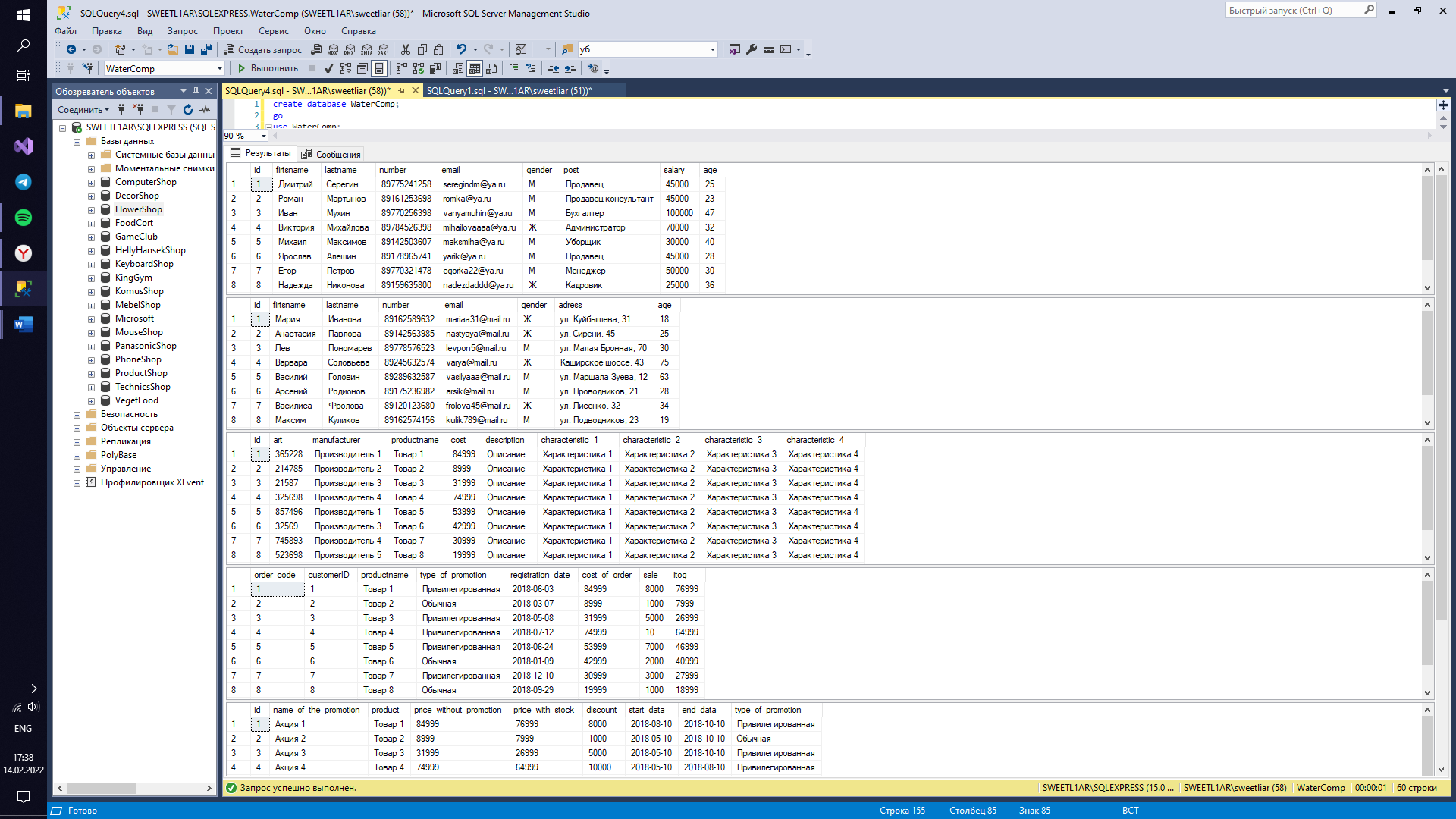
select \* from customer;

select \* from product;

select \* from cart;

select \* from stock;

select \* from orders;



use WaterComp;

update customer set age = age + 10 where age > 40;

delete stock where name\_of\_the\_promotion = 'Акция 2';

select \* from staff order by post;

select age from staff where age > 25;

select email from customer;

select \* from cart where sale > 5000;

select firtsname, lastname, email from staff where post = 'Администратор' or age > 20;

select \* from stock where name\_of\_the\_promotion = 'Акция 3' or discount < 2000;

select \* from orders order by itog;

select art, cost, description\_ from product order by id;

select age, post from staff where gender = 'Ж';

select firtsname, lastname from customer where age = 30;

select \* from orders where delivery\_or\_pickup = 'Самовывоз' and cost\_of\_order > 20000;

select id, product from stock where discount = 5000;

select \* from orders order by registration\_date;

select productname from cart order by registration\_date;

select name\_of\_the\_promotion from stock where type\_of\_promotion = 'Привилегированная';

select \* from staff where age between 18 and 30;

select \* from product where cost between 20000 and 50000;

select \* from customer where age between 18 and 40;

select productname from orders where sale between 2000 and 3000;

select \* from orders where cost\_of\_order between 10000 and 50000;

select \* from stock where discount between 0 and 35000;

select id from customer where age in (18, 20, 22);

select id, art, cost from product where manufacturer in ('Производитель 4', 'Производитель 2');

select \* from customer where email in ('mariaa31@mail.ru', 'ivan@gamail.com');

select \* from orders where sale in (2000, 3000, 5000, 7000);

select \* from stock where name\_of\_the\_promotion in ('Акция 1', 'Акция 3', 'Акция 8');

select order\_code from cart where itog in (40999, 64999);

select avg(age) as age\_avg from staff;

select avg(cost) as avg\_cost from product where manufacturer = 'Производитель 1';

select avg(itog) as avg\_itog from cart where cost\_of\_order > 20000;

select avg(sale) as avg\_sale from orders;

select avg(discount) as avg\_disc from stock;

select avg(cost\_of\_order) as avg\_coo from cart;

select count(\*) as count\_ from cart;

select count(cost) as count\_cost from product;

select count(age) as count\_age from customer;

select count(itog) as count\_itog from cart;

select count(\*) as count\_sale from cart;

select count(\*) as count\_all from orders;

select min(age) as min\_age from customer;

select min(itog) as min\_itog from cart;

select min(sale) as min\_sale from cart;

select min(cost\_of\_order) as min\_coo from orders;

select min(distinct age) as min\_age\_staff from staff;

select min(start\_data) as min\_data from stock;

select max(age) as max\_age from staff;

select max(itog) as max\_itog from cart;

select max(distinct cost) as max\_cost from product;

select max(end\_data) as max\_data from stock;

select max(age) as max\_age\_cust from customer;

select max(sale) as max\_sale from cart;

select sum(cost) as sum\_cost from product;

select sum(age) as age\_sum from customer;

select sum(distinct sale) as sum\_sale from cart;

select sum(age) as sum\_age\_staff from staff;

select sum(itog) as sum\_itog from orders;

select sum(price\_without\_promotion) as sum\_pws from stock;

select manufacturer, count(\*) as quantity from product group by manufacturer order by quantity;

select age, count(\*) as quantity from customer where age > 20 group by age;

select type\_of\_promotion, count(\*) as quantity from cart group by type\_of\_promotion having count(\*) > 1;

select sale, count(\*) as sale\_ from cart group by sale having count(\*) >= 1;

select discount, count(\*) as discount\_quantity from stock group by discount order by discount;

select age, count(\*) as age\_quantity from staff group by age having count(\*) > 1;

select \* from staff;

select \* from customer;

select \* from product;

select \* from cart;

select \* from stock;

select \* from orders;

