

Министерство науки и высшего образования Российской Федерации  
Федеральное государственное бюджетное образовательное учреждение высшего образования  
«Российский экономический университет имени Г.В. Плеханова»  
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Информационная система строительной организации

Скрипт базы данных

ЛИСТ УТВЕРЖДЕНИЯ

МПТ УП 02.01 П50-2-18 23-ЛУ

Листов 19

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## ПРИЛОЖЕНИЕ Е. СКРИПТ БАЗЫ ДАННЫХ

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## АННОТАЦИЯ

В данном программном документе приведен скрипт базы данных информационной системы «Информационная система строительной организации «DP Repair Kit».

В данном программном документе, в разделе «СКРИПТ БАЗЫ ДАННЫХ» указаны: Наименование скрипта, область применения скрипта, скрипт.

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## 1. СКРИПТ БАЗЫ ДАННЫХ

### 1.1. Наименование скрипта

Наименование – «Script\_BD.sql».

### 1.2. Область применения скрипта

Скрипт предназначен для программы «Информационная система строительной организации «DP Repair Kit».

### 1.3. Скрипт

```
set ansi_nulls on
go
set quoted_identifier on
go
set ansi_padding on
go

create database [DP_Repair_Kit]
go

use [DP_Repair_Kit]
go

create table [dbo].[Role]
(
    [ID_Role] [int] not null identity(1,1),
    [Name] [varchar] (50) not null UNIQUE,

    constraint [PK_Role] primary key clustered
        ([ID_Role] ASC) on [PRIMARY]
)
go

create table [dbo].[Dolznost]
(
    [ID_Dolznosti] [int] not null identity(1,1),
    [Name] [varchar] (50) not null UNIQUE,

    constraint [PK_Dolznost] primary key clustered
        ([ID_Dolznosti] ASC) on [PRIMARY]
)
go

create table [dbo].[Sotrudnic]
(
    [ID_Sotrudnica] [int] not null identity(1,1),
    [Familiya] [varchar] (50) not null,
    [ID_Dolznosti] [int] not null,
    [Ima] [varchar] (50) not null,
    [Otchestvo] [varchar] (50) null,
    [Nomer_Telefona] [varchar] (50) null,
    [Login] [varchar] (50) not null,
    [Password] [varchar] (50) not null,
    [ID_Role][int] not null
```

```
constraint [PK_Sotrudnic] primary key clustered
    ([ID_Sotrudnica] ASC) on [PRIMARY],

constraint [FK_Dolznosti_Sotrudnic] foreign key ([ID_Dolznosti])
references [dbo].[Dolznost] (ID_Dolznosti) ON DELETE CASCADE,

constraint [FK_Role_Sotrudnic] foreign key ([ID_Role])
references [dbo].[Role] (ID_Role) ON DELETE CASCADE
)
go

create table [dbo].[Brigadir]
(
    [ID_Brigadira] [int] not null identity(1,1),
    [ID_Sotrudnica] [int] not null,

    constraint [PK_Brigadir] primary key clustered
        ([ID_Brigadira] ASC) on [PRIMARY],

    constraint [FK_Sotrudnic_Brigadir] foreign key ([ID_Sotrudnica])
references [dbo].[Sotrudnic] (ID_Sotrudnica) ON DELETE CASCADE
)
go

create table [dbo].[Sostav_Brigadi]
(
    [ID_Sostav_Brigadi] [int] not null identity(1,1),
    [ID_Brigadira] [int] not null,
    [ID_Sotrudnica] [int] not null

    constraint [PK_Sostav_Brigadi] primary key clustered
        ([ID_Sostav_Brigadi] ASC) on [PRIMARY],

    constraint [FK_Brigadira_Sostav_Brigadi] foreign key ([ID_Brigadira])
references [dbo].[Brigadir] (ID_Brigadira) ON DELETE CASCADE,

    constraint [FK_Sotrudnic_Sostav_Brigadi] foreign key ([ID_Sotrudnica])
references [dbo].[Sotrudnic] (ID_Sotrudnica) ON UPDATE NO ACTION
)
go

create table [dbo].[Vid_Rabot]
(
    [ID_Vida] [int] not null identity(1,1),
    [Name] [varchar] (100) not null UNIQUE,

    constraint [PK_Vid_Rabot] primary key clustered
        ([ID_Vida] ASC) on [PRIMARY]
)
go

create table [dbo].[Rabota_Brigadi]
(
    [ID_Raboti] [int] not null identity(1,1),
    [ID_Brigadira] [int] not null,
    [ID_Vida] [int] not null

    constraint [PK_Rabota_Brigati] primary key clustered
```

```
        ([ID_Raboti] ASC) on [PRIMARY],

constraint [FK_Brigadira_Rabota_Brigati] foreign key ([ID_Brigadira])
references [dbo].[Brigadir] (ID_Brigadira) ON DELETE CASCADE,

constraint [FK_Vida_Rabota_Brigati] foreign key ([ID_Vida])
references [dbo].[Vid_Rabot] (ID_Vida) ON DELETE CASCADE
)
go

create table [dbo].[Stroitelnaya_Tekhnica]
(
    [ID_Teknici] [int] not null identity(1,1),
    [Name] [varchar] (100) not null UNIQUE,

    constraint [PK_Stroitelnaya_Tekhnica] primary key clustered
        ([ID_Teknici] ASC) on [PRIMARY]
)
go

create table [dbo].[Uchastok]
(
    [ID_Uchastka] [int] not null identity(1,1),
    [ID_Sotrudnica] [int] not null,
    [Name] [varchar] (100) not null UNIQUE,

    constraint [PK_Uchastok] primary key clustered
        ([ID_Uchastka] ASC) on [PRIMARY],

    constraint [FK_Sotrudnic_Uchastok] foreign key ([ID_Sotrudnica])
references [dbo].[Sotrudnic] (ID_Sotrudnica) ON DELETE CASCADE
)
go

create table [dbo].[Tekhnica_Na_Uchastke]
(
    [ID_Tekhnica_Na_Uchastke] [int] not null identity(1,1),
    [Kolichestvo] [int] not null,
    [ID_Uchastka] [int] not null,
    [ID_Teknici] [int] not null,

    constraint [PK_Tekhnica_Na_Uchastke] primary key clustered
        ([ID_Tekhnica_Na_Uchastke] ASC) on [PRIMARY],

    constraint [FK_Uchastka_Tekhnica_Na_Uchastke] foreign key ([ID_Uchastka])
references [dbo].[Uchastok] (ID_Uchastka) ON DELETE CASCADE,

    constraint [FK_Teknici_Tekhnica_Na_Uchastke] foreign key ([ID_Teknici])
references [dbo].[Stroitelnaya_Tekhnica] (ID_Teknici) ON DELETE CASCADE
)
go

create table [dbo].[Tip_Obyekta]
(
    [ID_Tipa_Obyekta] [int] not null identity(1,1),
    [Name] [varchar] (100) not null UNIQUE,

    constraint [PK_Tip_Obyekta] primary key clustered
        ([ID_Tipa_Obyekta] ASC) on [PRIMARY]
)
```

go

```
create table [dbo].[Stroitelnyy_Object]
(
    [ID_Objecta] [int] not null identity(1,1),
    [ID_Tipa_Obyekta] [int] not null,
    [ID_Uchastka] [int] not null,
    [Status] [varchar] (50) not null,

    constraint [PK_Stroitelnyy_Object] primary key clustered
        ([ID_Objecta] ASC) on [PRIMARY],

    constraint [FK_Tipa_Obyekta_Stroitelnyy_Object] foreign key ([ID_Tipa_Obyekta])
        references [dbo].[Tip_Obyekta] (ID_Tipa_Obyekta) ON DELETE CASCADE,

    constraint [FK_Uchastka_Stroitelnyy_Object] foreign key ([ID_Uchastka])
        references [dbo].[Uchastok] (ID_Uchastka) ON DELETE CASCADE
)
go
```

```
create table [dbo].[Zakazchik]
(
    [ID_Zakazchika] [int] not null identity(1,1),
    [Name] [varchar] (100) not null ,
    [INN_Number] [varchar] (20) not null UNIQUE,
    [Phone_Number] [varchar] (20) not null,

    constraint [PK_Zakazchik] primary key clustered
        ([ID_Zakazchika] ASC) on [PRIMARY]
)
go
```

```
create table [dbo].[Dogovor]
(
    [ID_Dogovora] [int] not null identity(1,1),
    [Data_Zacluchenia_Dogovora] [varchar] (100) not null,
    [ID_Objecta] [int] not null,
    [ID_Zakazchika] [int] not null

    constraint [PK_Dogovor] primary key clustered
        ([ID_Dogovora] ASC) on [PRIMARY],

    constraint [FK_Stroitelnyy_Object_Dogovor] foreign key ([ID_Objecta])
        references [dbo].[Stroitelnyy_Object] (ID_Objecta) ON DELETE CASCADE,

    constraint [FK_Zakazchik_Dogovor] foreign key ([ID_Zakazchika])
        references [dbo].[Zakazchik] (ID_Zakazchika) ON DELETE CASCADE
)
go
```

```
create table [dbo].[Raboti_Na_Obiecte]
(
    [ID_Raboti_Na_Obiecte] [int] not null identity(1,1),
    [ID_Objecta] [int] not null,
    [ID_Raboti] [int] not null,
    [Status] [varchar] (100) not null,
    [Srok_Vipolnenia_Rabot] [date] not null,
    [Prioritet] [int] not null
)
```



```
constraint [PK_Raboti_Na_Objekte] primary key clustered
    ([ID_Raboti_Na_Objekte] ASC) on [PRIMARY],
```

```
constraint [FK_Rabota_Brigadi_Raboti_Na_Objekte] foreign key ([ID_Raboti])
references [dbo].[Rabota_Brigadi] (ID_Raboti) ON DELETE CASCADE,
```

```
constraint [FK_Stroitelniy_Object_Raboti_Na_Objekte] foreign key ([ID_Objecta])
references [dbo].[Stroitelniy_Object] (ID_Objecta)
```

```
)
go
```

```
create table [dbo].[Sdacha_Rabot]
```

```
(
    [ID_Sdachi_Rabot] [int] not null identity(1,1),
    [Data_Sdachi] [date] not null,
    [ID_Raboti_Na_Objekte] [int] not null UNIQUE,
```

```
constraint [PK_Sdacha_Rabot] primary key clustered
    ([ID_Sdachi_Rabot] ASC) on [PRIMARY],
```

```
constraint [FK_Raboti_Na_Objekte_Sdacha_Rabot] foreign key ([ID_Raboti_Na_Objekte])
references [dbo].[Raboti_Na_Objekte] (ID_Raboti_Na_Objekte) ON DELETE CASCADE,
```

```
)
go
```

```
create table [dbo].[Material]
```

```
(
    [ID_Materiala] [int] not null identity(1,1),
    [Name] [varchar] (100) not null UNIQUE,
```

```
constraint [PK_Material] primary key clustered
    ([ID_Materiala] ASC) on [PRIMARY]
```

```
)
go
```

```
create table [dbo].[Rashod_Materialov]
```

```
(
    [ID_Rashoda_Materialov] [int] not null identity(1,1),
    [Kolichestvo] [int] not null,
    [ID_Materiala] [int] not null,
    [ID_Sdachi_Rabot] [int] not null
```

```
constraint [PK_Rashod_Materialo] primary key clustered
    ([ID_Rashoda_Materialov] ASC) on [PRIMARY],
```

```
constraint [FK_Materiala_Rashod_Materialov] foreign key ([ID_Materiala])
references [dbo].[Material] (ID_Materiala) ON DELETE CASCADE,
```

```
constraint [FK_Sdachi_Rabot_Rashod_Materialov] foreign key ([ID_Sdachi_Rabot])
references [dbo].[Sdacha_Rabot] (ID_Sdachi_Rabot) ON DELETE CASCADE
```

```
)
go
```

```
create table [dbo].[Unicalnie_Atributi]
```

```
(
    [ID_Atributa] [int] not null identity(1,1),
```

```
[Name] [varchar] (100) not null UNIQUE,  
  
constraint [PK_Unicalnie_Atributi] primary key clustered  
    ([ID_Atributa] ASC) on [PRIMARY]  
)  
go  
  
create table [dbo].[Perechen_Atributuv]  
(  
    [ID_Perechena_Atributuv] [int] not null identity(1,1),  
    [ID_Objecta] [int] not null,  
    [ID_Atributa] [int] not null,  
    [Value] [varchar] (100) not null,  
  
    constraint [PK_Perechen_Atributuv] primary key clustered  
        ([ID_Perechena_Atributuv] ASC) on [PRIMARY],  
  
    constraint [FK_Stroitelnyy_Object_Perechen_Atributuv] foreign key ([ID_Objecta])  
        references [dbo].[Stroitelnyy_Object] (ID_Objecta) ON DELETE CASCADE,  
  
    constraint [FK_Unicalnie_Atributi_Perechen_Atributuv] foreign key ([ID_Atributa])  
        references [dbo].[Unicalnie_Atributi] (ID_Atributa) ON DELETE CASCADE  
)  
go
```

```
INSERT INTO [dbo].[Dolznost]  
VALUES  
(  
    'Администратор информационной системы',  
    'Глава строительного управления',  
    'Начальник участка',  
    'Бригадир',  
    'Менеджер по работе с клиентами',  
    'HR менеджер',  
    'Мастер',  
    'Техник',  
    'Слеварь',  
    'Сантехник')  
go
```

```
INSERT INTO [dbo].[Role]  
VALUES  
(  
    'Инженерно-технический',  
    'Рабочий')  
go
```

```
INSERT INTO [dbo].[Sotrudnic]  
VALUES  
(  
    'Грепук',1,'Максим','Викторович','AdminGercMV','admin2002',1),  
    ('Иванов',2,'Иван','Иванович','GlavStroi','GlavSt21',2),  
    ('Ришевич',3,'Иван','Викторович','NachYch','nachYchastocIvan',2),  
    ('Кулибаев',4,'Максим','Иванович','BrigadiresKMI','KylibMacsIvan',2),  
    ('Мекан',4,'Максим','Юргенович','UrgenBrig','Urgen1997',2),  
    ('Менков',4,'Иван','Иванович','MencovIvan4','MencIvanov',2),  
    ('Мекан',4,'Максим','Юргенович','MenkavMaks','MenkavMaks4Urg',2),  
    ('Гариков',5,'Михаил','Дмитреевич','MenagerGaricMixail','GaricMixDmit',1),  
    ('Аменков',6,'Максим','Максимович','HRManagerAmenc','AmencovMaksimMaks',1),  
    ('Болотов',7,'Герман','Викторович','MasterBolot','MasterBolot288',2),  
    ('Пекарев',8,'Дмитрий','Генадьевич','TexnicPescov','TexnicPescov222',2),  
    ('Чубасов',9,'Антон','Артемович','SlesChue','SlecAntonAmenc',2),
```

```
('Екопиев',10,'Антон','Дмитреевич','','SlesChue','SlecAntonAmenc',2),  
(Юмихаев',3,'Антон','Олегови','','UmixAnton','UmixAnton22',2),  
(Раевских',3,'Дмитрий','Олегович','','Raevscix','Raevscix222',2)
```

```
INSERT INTO [dbo].[Brigadir]  
VALUES  
(4),(5),(6),(7)  
go
```

```
INSERT INTO [dbo].[Sostav_Brigadi]  
VALUES  
(1,10),(2,11),  
(3,12),(4,13)  
go
```

```
INSERT INTO [dbo].[Vid_Rabot]  
VALUES  
(Оконные'),  
(Слесарные'),  
(Деревянные'),  
(Каменные'),  
(Строительные'),  
(Отделочные'),  
(Геодезические'),  
(Земляные'),  
(Монтажные'),  
(Кровельные'),  
(Подготовительные'),  
(Бетонные'),  
(Железные')  
go
```

```
INSERT INTO [dbo].[Rabota_Brigadi]  
VALUES  
(1,1),(1,2),  
(2,3),(3,4),  
(3,6),(4,7)  
go
```

```
INSERT INTO [dbo].[Uchastok]  
VALUES  
(3,'Аллы паруса'),  
(14,'23-33-76'),  
(15, 'Земельные-23')  
go
```

```
INSERT INTO [dbo].[Stroitel'naya_Tekhnica]  
VALUES  
(Кран'),  
(Эсковатор'),  
(Грузовик'),  
(Бур'),  
(Подъемник'),  
(Транеции'),  
(Бульдозер'),  
(Гидравлический молот'),  
(Погрущики'),  
(Автовышки'),  
(Бетономешалка')  
go
```

```
INSERT INTO [dbo].[Tekhnica_Na_Uchastke]
VALUES
(123,1,1),
(12,1,2),
(13,1,3),
(20,2,4),
(10,3,5)
go
```

```
INSERT INTO [dbo].[Tip_Obyekta]
VALUES
('Мост'),
('Школа'),
('Бизнес оффис'),
('Жилой дом'),
('Дачный домик'),
('Сарай'),
('Торговый центр'),
('Бомбо убежище')
go
```

```
INSERT INTO [dbo].[Stroitelniy_Object]
VALUES
(1,2,'Выполняется'),
(2,1,'Выполняется'),
(3,3,'Выполняется'),
(5,3,'Выполняется'),
(7,2,'Выполняется')
go
```

```
INSERT INTO [dbo].[Unicalnie_Atributi]
VALUES
('Этажность'),
('Степень прочности'),
('Материал'),
('Количество квартир'),
('Количество подъездов'),
('Высота'),
('Занимаемая площадь на теретории'),
('Количество квадратных метров в общем')
go
```

```
INSERT INTO [dbo].[Perechen_Atributuv]
VALUES
(1,1,12),
(1,2,17),
(1,3,22),
(2,4,12),
(2,5,2),
(3,6,1)
go
```

```
INSERT INTO [dbo].[Zakazchik]
VALUES
('ООО.ГурСтрой',111111111,'8(985) 543-80-98'),
('ФГБОУ Школа 12344',111121111,'8(985) 513-80-98'),
('ИП.Москвич',111112111,'8(985) 563-80-98'),
('Физ лицо Белков.В.В',112111111,'8(985) 543-10-98'),
```

```
('ИП.Руболов',1111111114,'8(985) 543-80-98'),  
('ООО.Гром и молния',1111411111,'8(985) 543-80-98')  
go
```

```
INSERT INTO [dbo].[Dogovor]  
VALUES  
( '20.09.2002',1,2),  
( '20.09.2002',2,3),  
( '20.09.2002',3,2)  
go
```

```
INSERT INTO [dbo].[Material]  
VALUES  
( 'Дуб'),  
( 'Сосна'),  
( 'Ель'),  
( 'Бетон'),  
( 'Штыри'),  
( 'Метал'),  
( 'Ленолиум'),  
( 'Двери'),  
( 'Кирпич'),  
( 'Кафель')  
go
```

```
INSERT INTO [dbo].[Raboti_Na_Objecte]  
VALUES  
(1,1,'Работа выполнена','20.05.2002',0),  
(1,2,'Работа выполняется','21.01.2002',1),  
(1,3,'Работа выполнена','22.02.2012',2),  
(1,2,'Работа выполняется','23.03.2009',3),  
(2,5,'Работа выполнена','10.08.2009',4),  
(2,6,'Работа выполняется','09.10.2019',1),  
(2,2,'Работа выполняется','02.03.2009',0),  
(2,3,'Работа выполняется','07.03.2009',1)  
go
```

```
INSERT INTO [dbo].[Sdacha_Rabot]  
VALUES  
( '21.05.2002',1),  
( '21.12.2001',5),  
( '21.12.2001',3)  
go
```

```
INSERT INTO [dbo].[Rashod_Materialov]  
VALUES  
(2,2,1),  
(7,3,1),  
(8,1,1),  
(12,5,2),  
(66,6,2),  
(14,10,3),  
(12,8,3),  
(27,7,3)  
go
```

--Начальник бригады ФИО

```
create or alter view [dbo].[Chief_Brigades] ("ФІО начальника должность")
as
select
[dbo].[Sotrudnic].[Familiya] + ' ' + SUBSTRING ([dbo].[Sotrudnic].[Ima],1,1)+'.'+SUBSTRING
([dbo].[Sotrudnic].[Otchestvo],1,1)+'.' +
[dbo].[Dolznost].[Name]
    from [dbo].[Sotrudnic]
    inner join [dbo].[Dolznost] on [dbo].[Sotrudnic].[ID_Dolznosti] = [dbo].[Dolznost].[ID_Dolznosti]
    where [dbo].[Dolznost].[Name] = 'Бригадир'
go

--Вывод рабочих
create or alter view [dbo].[Employee_Raboch_Inform] ("ФІО должность сотрудника")
as
select
[dbo].[Sotrudnic].[Familiya] + ' ' + SUBSTRING ([dbo].[Sotrudnic].[Ima],1,1) + ' ' + SUBSTRING
([dbo].[Sotrudnic].[Otchestvo],1,1)+'.' +
[dbo].[Dolznost].[Name]
    from [dbo].[Sotrudnic]
    inner join [dbo].[Dolznost] on [dbo].[Sotrudnic].[ID_Dolznosti] = [dbo].[Dolznost].[ID_Dolznosti]
    inner join [dbo].[Role] on [dbo].[Sotrudnic].[ID_Role] = [dbo].[Role].[ID_Role]
    where
[dbo].[Role].[Name] = 'Рабочий' and
[dbo].[Dolznost].[Name] != 'HR менеджер' and
[dbo].[Dolznost].[Name] != 'Администратор информационной системы'and
[dbo].[Dolznost].[Name] != 'Глава строительного управления' and
[dbo].[Dolznost].[Name] != 'Начальник участка' and
[dbo].[Dolznost].[Name] != 'Бригадир' and
[dbo].[Dolznost].[Name] != 'Менеджер по работе с клиентами'
go

--Вывод рабочих у бригадира в Бригадир на основе id бригадира
create or alter function [dbo].[Output_Workers] (@idBrigadir [int])
returns table
as
    return(
        select
        [dbo].[Sotrudnic].[Familiya] "Фамилия",
        [dbo].[Sotrudnic].[Ima] "Имя",
        [dbo].[Dolznost].[Name] as "Должность"
        from [dbo].[Sostav_Brigadi]
        inner join [dbo].[Sotrudnic] on [dbo].[Sostav_Brigadi].[ID_Sotrudnica] = [dbo].[Sotrudnic].[ID_Sotrudnica]
        inner join [dbo].[Brigadir] on [dbo].[Sostav_Brigadi].[ID_Brigadira] = [dbo].[Brigadir].[ID_Brigadira]
        inner join [dbo].[Dolznost] on [dbo].[Sotrudnic].[ID_Dolznosti] = [dbo].[Dolznost].[ID_Dolznosti]
        where [dbo].[Brigadir].[ID_Brigadira] = @idBrigadir
    )
go

--Поиск бригадира из под администратора
create or alter function [dbo].[Brigadir_Search] (@employee [varchar] (max))
returns table
as
    return(
        select
        [dbo].[Brigadir].[ID_Brigadira] as "Номер бригадира",
        [dbo].[Sotrudnic].[Familiya] + ' ' + SUBSTRING ([dbo].[Sotrudnic].[Ima],1,1) + ' ' + SUBSTRING
([dbo].[Sotrudnic].[Otchestvo],1,1)+'.' +
        [dbo].[Dolznost].[Name] as "ФІО должность"
        from [dbo].[Brigadir]
```

```
inner join [dbo].[Sotrudnic] on [dbo].[Brigadir].[ID_Sotrudnica] = [dbo].[Sotrudnic].[ID_Sotrudnica]
inner join [dbo].[Dolznost] on [dbo].[Sotrudnic].[ID_Dolznosti] = [dbo].[Dolznost].[ID_Dolznosti]

where [dbo].[Sotrudnic].[Familiya] + ' ' + SUBSTRING ([dbo].[Sotrudnic].[Ima],1,1) + ' ' + SUBSTRING
([dbo].[Sotrudnic].[Otchestvo],1,1)+' ' +
[dbo].[Dolznost].[Name] = @employee
)
go

--Поиск номера сотрудника
create or alter function [dbo].[Employee_Search] (@employee [varchar] (max))
returns table
as
    return(
        select
            [dbo].[Sotrudnic].[ID_Sotrudnica] as сотрудника,
            [dbo].[Sotrudnic].[Familiya] + ' ' + SUBSTRING ([dbo].[Sotrudnic].[Ima],1,1) + ' ' + SUBSTRING
([dbo].[Sotrudnic].[Otchestvo],1,1)+' ' +
            [dbo].[Dolznost].[Name] as "ФИО должность"
        from [dbo].[Sotrudnic]
        inner join [dbo].[Dolznost] on [dbo].[Sotrudnic].[ID_Dolznosti] = [dbo].[Dolznost].[ID_Dolznosti]

        where [dbo].[Sotrudnic].[Familiya] + ' ' + SUBSTRING ([dbo].[Sotrudnic].[Ima],1,1) + ' ' + SUBSTRING
([dbo].[Sotrudnic].[Otchestvo],1,1)+' ' +
            [dbo].[Dolznost].[Name] = @employee
        )
    go

--Список работ
create or alter function [dbo].[List_Worke] (@idBrigadir [int])
returns table
as
    return(
        select
            [dbo].[Raboti_Na_Objekte].[ID_Raboti_Na_Objekte] as "Номер работы на объекте",
            [dbo].[Vid_Rabot].[Name] as "Вид работы",
            [dbo].[Raboti_Na_Objekte].[Srok_Vipolnenia_Rabot] as "Срок выполнения",
            [dbo].[Raboti_Na_Objekte].[Prioritet] as "Приоритет",
            [dbo].[Raboti_Na_Objekte].[Status] as "Статус"
        from [dbo].[Raboti_Na_Objekte]
        inner join [dbo].[Rabota_Brigadi] on [dbo].[Raboti_Na_Objekte].[ID_Raboti] =
[dbo].[Rabota_Brigadi].[ID_Raboti]
        inner join [dbo].[Vid_Rabot] on [dbo].[Rabota_Brigadi].[ID_Vida] = [dbo].[Vid_Rabot].[ID_Vida]
        inner join [dbo].[Brigadir] on [dbo].[Rabota_Brigadi].[ID_Brigadira] = [dbo].[Brigadir].[ID_Brigadira]
        where [dbo].[Rabota_Brigadi].[ID_Brigadira] = @idBrigadir and [dbo].[Raboti_Na_Objekte].[Status] !=
'Работа выполнена'
        )
    go

--Авторизация
create or alter function [dbo].[Autarization] (@login [varchar] (max),@password [varchar] (max))--Создание функции для
вывода фамилия, имя, отчество покупателей, даты печати чека, суммы покупке по введённому ФИО продавца
(табличная функция)
returns table
as
    return(
        select
            [dbo].[Sotrudnic].[Login],
            [dbo].[Sotrudnic].[Password],
            [dbo].[Dolznost].[Name],
```

```
[dbo].[Sotrudnic].[ID_Sotrudnica]
from [dbo].[Sotrudnic]
inner join [dbo].[Dolznost] on [dbo].[Sotrudnic].[ID_Dolznosti] = [dbo].[Dolznost].[ID_Dolznosti]
where [Login] = @login and [Password] = @password
)
go

--Информация об участках
create or alter view [dbo].[Information_About_Land_Plots] ("ФИО начальника", "Участок")
as
select
[dbo].[Sotrudnic].[Familiya] + ' ' + SUBSTRING ([dbo].[Sotrudnic].[Ima],1,1)+'.'+SUBSTRING
([dbo].[Sotrudnic].[Otchestvo],1,1)+'.',
[dbo].[Uchastok].[Name]
from [dbo].[Uchastok]
inner join [dbo].[Sotrudnic] on [dbo].[Uchastok].[ID_Sotrudnica] = [dbo].[Sotrudnic].[ID_Sotrudnica]
go

--Информация об технике на участке
create or alter view [dbo].[Equipment_On_The_Site] ("Наименование", "Значение")
as
select
[dbo].[Stroitel'naya_Tekhnica].[Name],
[dbo].[Tekhnica_Na_Uchastke].[Kolichestvo]
from [dbo].[Tekhnica_Na_Uchastke]
inner join [dbo].[Stroitel'naya_Tekhnica] on [dbo].[Tekhnica_Na_Uchastke].[ID_Teknici] =
[dbo].[Stroitel'naya_Tekhnica].[ID_Teknici]
go

--ФИО начальника участка
create or alter view [dbo].[Full_Name_Chief] ("Номер", "ФИО")
as
select
[dbo].[Sotrudnic].[ID_Sotrudnica],
[dbo].[Sotrudnic].[Familiya] + ' ' + SUBSTRING ([dbo].[Sotrudnic].[Ima],1,1)+'.'+SUBSTRING
([dbo].[Sotrudnic].[Otchestvo],1,1)+'.'
from [dbo].[Sotrudnic]
inner join [dbo].[Role] on [dbo].[Sotrudnic].[ID_Role] = [dbo].[Role].[ID_Role]
inner join [dbo].[Dolznost] on [dbo].[Sotrudnic].[ID_Dolznosti] = [dbo].[Dolznost].[ID_Dolznosti]
where [dbo].[Dolznost].[Name] = 'Начальник участка'
--where [dbo].[Role].[Name] = 'Инженерно-технический'
go

---Объекты строительства в начальнике участка
create or alter function [dbo].[Information_Object_Uchastci_ComboBox] (@idEmployoye [int])
returns table
as
return(
select
[dbo].[Tip_Obyekta].[Name] + ' ' + [dbo].[Dogovor].[Data_Zacluchenia_Dogovora] as "тип дата",
[dbo].[Stroitel'niy_Object].[ID_Objecta] as "Номер объекта"
from [dbo].[Dogovor]
inner join [dbo].[Stroitel'niy_Object] on [dbo].[Dogovor].[ID_Objecta] =
[dbo].[Stroitel'niy_Object].[ID_Objecta]
inner join [dbo].[Tip_Obyekta] on [dbo].[Stroitel'niy_Object].[ID_Tipa_Obyekta] =
[dbo].[Tip_Obyekta].[ID_Tipa_Obyekta]
inner join [dbo].[Uchastok] on [dbo].[Stroitel'niy_Object].[ID_Uchastka] =
[dbo].[Uchastok].[ID_Uchastka]
```



```
where [dbo].[Uchastok].[ID_Sotrudnica] = @idEmployee
)
go

--Участок с работами
create or alter function [dbo].[Information_Uchastoc_Worcing] (@idEmployee [int])
returns table
as
    return(
        select
            [dbo].[Tip_Obyekta].[Name] as "Объекты участка",
            [dbo].[Vid_Rabot].[Name] as "Наименование работ"
        from [dbo].[Raboti_Na_Obiecte]
        inner join [dbo].[Stroitelnyy_Object] on [dbo].[Raboti_Na_Obiecte].[ID_Objecta] =
[dbo].[Stroitelnyy_Object].[ID_Objecta]
        inner join [dbo].[Tip_Obyekta] on [dbo].[Stroitelnyy_Object].[ID_Tipa_Obyekta] =
[dbo].[Tip_Obyekta].[ID_Tipa_Obyekta]
        inner join [dbo].[Uchastok] on [dbo].[Stroitelnyy_Object].[ID_Uchastka] = [dbo].[Uchastok].[ID_Uchastka]
        inner join [dbo].[Rabota_Brigadi] on [dbo].[Raboti_Na_Obiecte].[ID_Raboti] =
[dbo].[Rabota_Brigadi].[ID_Raboti]
        inner join [dbo].[Vid_Rabot] on [dbo].[Rabota_Brigadi].[ID_Vida] = [dbo].[Vid_Rabot].[ID_Vida]
        where [dbo].[Uchastok].[ID_Sotrudnica] = @idEmployee
    )
go

--Начальники участков
create or alter view [dbo].[Chief_Uchastca] ("ФИО начальника должность")
as
select
[dbo].[Sotrudnic].[Familiya] + ' ' + SUBSTRING ([dbo].[Sotrudnic].[Ima],1,1)+'.'+SUBSTRING
([dbo].[Sotrudnic].[Otchestvo],1,1)+'.'
    from [dbo].[Sotrudnic]
    inner join [dbo].[Dolznost] on [dbo].[Sotrudnic].[ID_Dolznosti] = [dbo].[Dolznost].[ID_Dolznosti]
    where [dbo].[Dolznost].[Name] = 'Начальник участка'
go

---Генерация word файла с датами
create or alter function [dbo].[Information_Submission_Working_Date] (@idEmployee [int], @tipObject [varchar] (max))
returns table
as
    return(
        select
            [dbo].[Sdach_Rabot].[ID_Sdachi_Rabot] as "Номер",
            [dbo].[Tip_Obyekta].[Name] as "Объекты участка",
            [dbo].[Vid_Rabot].[Name] as "Наименование работ",
            rab.[Srok_Vipolnenia_Rabot],
            [dbo].[Uchastok].[Name],
            dog.[Data_Zacluchenia_Dogovora]
        from [dbo].[Sdach_Rabot]
        inner join [dbo].[Raboti_Na_Obiecte] rab on [dbo].[Sdach_Rabot].[ID_Raboti_Na_Obiecte] =
rab.[ID_Raboti_Na_Obiecte]
        inner join [dbo].[Stroitelnyy_Object] s1 on rab.[ID_Objecta] = s1.[ID_Objecta]

        inner join [dbo].[Dogovor] dog on dog.[ID_Objecta] = s1.[ID_Objecta]
        inner join [dbo].[Tip_Obyekta] on s1.[ID_Tipa_Obyekta] = [dbo].[Tip_Obyekta].[ID_Tipa_Obyekta]
        inner join [dbo].[Uchastok] on s1.[ID_Uchastka] = [dbo].[Uchastok].[ID_Uchastka]

        inner join [dbo].[Rabota_Brigadi] on rab.[ID_Raboti] = [dbo].[Rabota_Brigadi].[ID_Raboti]
```

```
inner join [dbo].[Vid_Rabot] on [dbo].[Rabota_Brigadi].[ID_Vida] = [dbo].[Vid_Rabot].[ID_Vida]
where
[dbo].[Uchastok].[ID_Sotrudnica] = @idEmployee and
[dbo].[Tip_Obyekta].[Name] + ','+dog.[Data_Zacluchenia_Dogovora] = @tipObject
)
go

--Бригадир из сотрудников
create or alter view [dbo].[Employee_Brigad] ("Номер бригадира","ФИО сотрудника")
as
select
    [dbo].[Brigadir].[ID_Brigadira],
    [dbo].[Sotrudnic].[Familiya] + ' ' + SUBSTRING ([dbo].[Sotrudnic].[Ima],1,1)+'.'+SUBSTRING
([dbo].[Sotrudnic].[Otchestvo],1,1)+'.'
    from [dbo].[Brigadir]
    inner join [dbo].[Sotrudnic] on [dbo].[Brigadir].[ID_Sotrudnica] = [dbo].[Sotrudnic].[ID_Sotrudnica]
go

create or alter function [dbo].[Search_Brigadir_Search] (@employee [varchar] (max))
returns table
as
    return(
        select
            [dbo].[Brigadir].[ID_Brigadira] as "Номер",
            [dbo].[Sotrudnic].[Familiya] + ' ' + SUBSTRING ([dbo].[Sotrudnic].[Ima],1,1)+'.'+SUBSTRING
([dbo].[Sotrudnic].[Otchestvo],1,1)+'.' as "ФИО"
        from [dbo].[Brigadir]
        inner join [dbo].[Sotrudnic] on [dbo].[Brigadir].[ID_Sotrudnica] = [dbo].[Sotrudnic].[ID_Sotrudnica]
        where [dbo].[Sotrudnic].[Familiya] + ' ' + SUBSTRING ([dbo].[Sotrudnic].[Ima],1,1)+'.'+SUBSTRING
([dbo].[Sotrudnic].[Otchestvo],1,1)+'.' = @employee
    )
go

create or alter function [dbo].[Information_Object_Uchastci_Search] (@idEmployee [int], @value [varchar] (max))
returns table
as
    return(
        select
            [dbo].[Tip_Obyekta].[Name] + ','+ [dbo].[Dogovor].[Data_Zacluchenia_Dogovora] as "тип дата",
            [dbo].[Stroitelnyy_Object].[ID_Objecta] as "Номер объекта"
        from [dbo].[Dogovor]
        inner join [dbo].[Stroitelnyy_Object] on [dbo].[Dogovor].[ID_Objecta] =
[dbo].[Stroitelnyy_Object].[ID_Objecta]
        inner join [dbo].[Tip_Obyekta] on [dbo].[Stroitelnyy_Object].[ID_Tipa_Obyekta] =
[dbo].[Tip_Obyekta].[ID_Tipa_Obyekta]
        inner join [dbo].[Uchastok] on [dbo].[Stroitelnyy_Object].[ID_Uchastka] = [dbo].[Uchastok].[ID_Uchastka]
        where [dbo].[Uchastok].[ID_Sotrudnica] = @idEmployee and [dbo].[Tip_Obyekta].[Name] +
','+[dbo].[Dogovor].[Data_Zacluchenia_Dogovora] = @value
    )
go

--Поиск начальника участка из под администратора
create or alter function [dbo].[Sotrudnic_Search_Employee] (@employee [varchar] (max))
returns table
as
    return(
        select
            [dbo].[Sotrudnic].[ID_Sotrudnica] as "Номер начальника участка",
            [dbo].[Sotrudnic].[Familiya] + ' ' + SUBSTRING ([dbo].[Sotrudnic].[Ima],1,1) + ' ' + SUBSTRING
([dbo].[Sotrudnic].[Otchestvo],1,1)+'.' as "ФИО"
```

```
from [dbo].[Sotrudnic]
where [dbo].[Sotrudnic].[Familiya] + ' ' + SUBSTRING ([dbo].[Sotrudnic].[Ima],1,1) + ' ' + SUBSTRING
([dbo].[Sotrudnic].[Otchestvo],1,1) + ' ' = @employee
)
go

--Отчет
create or alter function [dbo].[Working_Material_Inform] (@idSdach [int])
returns table
as
    return(
        select
            [dbo].[Sdacha_Rabot].[ID_Sdachi_Rabot] as "Номер",
            [dbo].[Tip_Obyekta].[Name] as "Объекты участка",
            [dbo].[Vid_Rabot].[Name] as "Наименование работ",
            [dbo].[Raboti_Na_Obiecte].[Srok_Vipolnenia_Rabot],
            [dbo].[Material].[Name] as "Тип материала",
            [dbo].[Rashod_Materialov].[Kolichestvo] as "Количество"
        from [dbo].[Rashod_Materialov]
        inner join [dbo].[Sdacha_Rabot] on [dbo].[Rashod_Materialov].[ID_Sdachi_Rabot] =
[dbo].[Sdacha_Rabot].[ID_Sdachi_Rabot]
        inner join [dbo].[Material] on [dbo].[Rashod_Materialov].[ID_Materiala] = [dbo].[Material].[ID_Materiala]
        inner join [dbo].[Raboti_Na_Obiecte] on [dbo].[Sdacha_Rabot].[ID_Raboti_Na_Obiecte] =
[dbo].[Raboti_Na_Obiecte].[ID_Raboti_Na_Obiecte]
        inner join [dbo].[Stroitelnyy_Object] on [dbo].[Raboti_Na_Obiecte].[ID_Objecta] =
[dbo].[Stroitelnyy_Object].[ID_Objecta]
        inner join [dbo].[Tip_Obyekta] on [dbo].[Stroitelnyy_Object].[ID_Tipa_Obyekta] =
[dbo].[Tip_Obyekta].[ID_Tipa_Obyekta]
        inner join [dbo].[Uchastok] on [dbo].[Stroitelnyy_Object].[ID_Uchastka] = [dbo].[Uchastok].[ID_Uchastka]
        inner join [dbo].[Rabota_Brigadi] on [dbo].[Raboti_Na_Obiecte].[ID_Raboti] =
[dbo].[Rabota_Brigadi].[ID_Raboti]
        inner join [dbo].[Vid_Rabot] on [dbo].[Rabota_Brigadi].[ID_Vida] = [dbo].[Vid_Rabot].[ID_Vida]
        where [dbo].[Rashod_Materialov].[ID_Sdachi_Rabot] = @idSdach
    )
go
```