Проектирование базы данных и разработка объектов базы данных.

Выполнил:

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Техническое задание

На основе задания необходимо спроектировать ER-диаграмму для учета заявок на ремонт оборудования. Обязательна 3 нормальная форма с обеспечением ссылочной целостности. При разработке диаграммы обратите внимание на согласованную осмысленную схему именования, создайте необходимые первичные и внешние ключи. ER-диаграмма должна быть представлена в формате удобном для просмотра и содержать таблицы, связи между ними, атрибуты и ключи (типами данных на данном этапе можно пренебречь).

Получить ER-диаграмму средствами СУБД или средствами графического редактора для создания диаграмм.

Создайте базу данных, используя предпочтительную платформу, на сервере баз данных, которую Вам предоставили. Создайте таблицы основных сущностей, атрибуты, отношения и необходимые ограничения.

Выполните названия таблиц и полей в едином стиле, согласно отраслевой документации.

Заполните таблицы базы данных (по пять записей для каждой таблицы).

Выполните резервное копирование БД, сохраните полученные результаты.

Выберите принцип регистрации пользователей в системе учета заявок на ремонт оборудования в соответствии с функциональными обязанностями.

На рисунке 1 представлена ER-диаграмма разработанной базы данных.

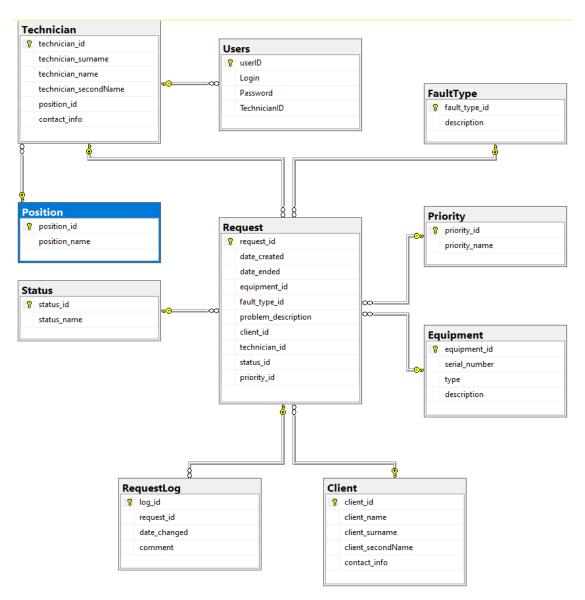


Рисунок 1 – ER диаграмма

На рисунках 2-11 представлено наполнение таблиц БД.

3 Вячеслав Медведев Сергеевич vyach@gmail.com 4 4 Светлана Бибирева Николаевна svetochka@yandex.m		client_id	client_name	client_sumame	client_secondName	contact_info
2ВладимирКашинМихайловичvovak@example.com3ВячеславМедведевСергеевичvyach@gmail.com4СветланаБибиреваНиколаевнаsvetochka@yandex.n	1	1	Иван	Галькин	Антонович	ivan@mail.ru
4 4 Светлана Бибирева Николаевна svetochka@yandex.n	2		Владимир	Кашин	Михайлович	vovak@example.com
	3	3	Вячеслав	Медведев	Сергеевич	vyach@gmail.com
5 5 A × + B	4	4	Светлана	Бибирева	Николаевна	svetochka@yandex.ru
5 Андрей Фролов Павлович andrew@yahoo.com	5	5	Андрей	Фролов	Павлович	andrew@yahoo.com

Рисунок 2 – Таблица Client

	equipment_id	serial_number	type	description
•	1	SN001	Принтер	Офисный при
	2	SN002	Ноутбук	Dell Latitude 55
	3	SN003	Роутер	Cisco Router X5
	4	SN004	Монитор	HP 24-inch LED
	5	SN005	Сервер	IBM X-Series Se
	NULL	NULL	NULL	NULL

Рисунок 3 — Таблица Equipment

	technician_id	technician_sur	technician_na	technician_sec	position_id	contact_info
>	1	Иванов	Алексей	Петрович	1	ivanov.alexey@
	2	Петрова	Мария	Сергеевна	2	petrova.maria
	3	Смирнов	Дмитрий	Владимирович	3	smirnov.dmitry
	4	Кузнецова	Елена	Игоревна	4	kuznetsova.ele
	5	Лебедев	Сергей	Анатольевич	5	lebedev.sergey
	NULL	NULL	NULL	NULL	NULL	NULL

Рисунок 4 — Таблица Technician

	fault_type_id	description
•	1	Проблема с питанием
	2	Сетевая неполадка
	3	Физическая поломка
	4	Программная ошибка
	5	Неизвестная ошибка
	NULL	NULL

Рисунок 5 — Таблица FaultТуре

	request_id	date_created	date_ended	equipment_id	fault_type_id	problem_descr	client_id	technician_id	status_id	priority_id
•	1	2024-01-12 10:0	2024-02-12 15:0	1	1	Не работает п	1	1	1	3
	2	2024-03-12 11:0	2024-04-12 14:0	2	2	Перегревается	2	2	2	2
	3	2024-05-12 12:0	NULL	3	3	Роутер не подк	3	3	3	4
	4	2024-06-12 13:0	2024-07-12 16:0	4	4	Мерцает экран	4	4	4	1
	5	2024-08-12 14:0	NULL	5	5	Сервер не запу	5	5	5	5
	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Рисунок 6 – Таблица Requests

	status_id	status_name
•	1	Открыть
	2	В процессе
	3	Решено
	4	Закрыто
	5	Заморожено
	NULL	NULL

Рисунок 7 – Таблица Status

	position_id	position_name
>	1	Техник
	2	Главный техник
	3	Инженер
	4	Менеджер
	5	Стажер
*	NULL	NULL

Рисунок 8 – Таблица Position

	priority_id	priority_name
•	1	Низкий
	2	Средний
	3	Высокий
	4	Критический
	5	Срочный
	NULL	NULL

Рисунок 9 – Таблица Priority

	log_id	request_id	date_changed	comment
•	1	1	2024-01-12 12:0	Принято в обработку
	2	2	2024-03-12 13:0	Детали заказаны
	3	3	2024-05-12 14:0	Ожидается подтверждение от клиента
	4	4	2024-06-12 15:0	Проблема решена
	5	5	2024-08-12 16:0	Техник прикреплен
	NULL	NULL	NULL	NULL

Рисунок 10 – Таблица RequestLog

	userlD	Login	Password	TechnicianID
>	1	user1	wlejikghfo24	1
	2	user2	gg48gh	2
	3	user3	pass123123	3
	4	user4	12222534	4
	5	user5	admin999	5
	NULL	NULL	NULL	NULL

Рисунок 11 – Таблица Users

Скрипт для создания БД отражен в листинге 1.

Листинг 1 – Скрипт для создания БД

```
USE [master]
/***** Object: Database [TechnoService] Script Date: 19.12.2024
13:51:05 *****/
CREATE DATABASE [TechnoService]
CONTAINMENT = NONE
ON PRIMARY
( NAME = N'TechnoService', FILENAME = N'E:\Microsoft SQL
Server\MSSQL16.SQLEXPRESS\MSSQL\DATA\TechnoService.mdf', SIZE = 8192KB,
MAXSIZE = UNLIMITED, FILEGROWTH = 65536KB)
LOG ON
( NAME = N'TechnoService log', FILENAME = N'E:\Microsoft SQL
Server\MSSQL16.SQLEXPRESS\MSSQL\DATA\TechnoService log.ldf', SIZE = 8192KB
, MAXSIZE = 2048GB , FILEGROWTH = 65536KB )
WITH CATALOG COLLATION = DATABASE DEFAULT, LEDGER = OFF
ALTER DATABASE [TechnoService] SET COMPATIBILITY LEVEL = 160
IF (1 = FULLTEXTSERVICEPROPERTY('IsFullTextInstalled'))
EXEC [TechnoService].[dbo].[sp fulltext database] @action = 'enable'
end
ALTER DATABASE [TechnoService] SET ANSI NULL DEFAULT OFF
ALTER DATABASE [TechnoService] SET ANSI NULLS OFF
ALTER DATABASE [TechnoService] SET ANSI PADDING OFF
ALTER DATABASE [TechnoService] SET ANSI WARNINGS OFF
ALTER DATABASE [TechnoService] SET ARITHABORT OFF
ALTER DATABASE [TechnoService] SET AUTO CLOSE OFF
ALTER DATABASE [TechnoService] SET AUTO SHRINK OFF
ALTER DATABASE [TechnoService] SET AUTO UPDATE STATISTICS ON
ALTER DATABASE [TechnoService] SET CURSOR CLOSE ON COMMIT OFF
ALTER DATABASE [TechnoService] SET CURSOR DEFAULT GLOBAL
ALTER DATABASE [TechnoService] SET CONCAT NULL YIELDS NULL OFF
ALTER DATABASE [TechnoService] SET NUMERIC ROUNDABORT OFF
ALTER DATABASE [TechnoService] SET QUOTED IDENTIFIER OFF
ALTER DATABASE [TechnoService] SET RECURSIVE TRIGGERS OFF
ALTER DATABASE [TechnoService] SET DISABLE BROKER
ALTER DATABASE [TechnoService] SET AUTO UPDATE STATISTICS ASYNC OFF
ALTER DATABASE [TechnoService] SET DATE CORRELATION OPTIMIZATION OFF
ALTER DATABASE [TechnoService] SET TRUSTWORTHY OFF
```

```
GO
ALTER DATABASE [TechnoService] SET ALLOW SNAPSHOT ISOLATION OFF
ALTER DATABASE [TechnoService] SET PARAMETERIZATION SIMPLE
ALTER DATABASE [TechnoService] SET READ COMMITTED SNAPSHOT OFF
ALTER DATABASE [TechnoService] SET HONOR BROKER PRIORITY OFF
ALTER DATABASE [TechnoService] SET RECOVERY SIMPLE
ALTER DATABASE [TechnoService] SET MULTI USER
ALTER DATABASE [TechnoService] SET PAGE VERIFY CHECKSUM
ALTER DATABASE [TechnoService] SET DB CHAINING OFF
ALTER DATABASE [TechnoService] SET FILESTREAM( NON TRANSACTED ACCESS = OFF )
ALTER DATABASE [TechnoService] SET TARGET RECOVERY TIME = 60 SECONDS
ALTER DATABASE [TechnoService] SET DELAYED DURABILITY = DISABLED
ALTER DATABASE [TechnoService] SET ACCELERATED DATABASE RECOVERY = OFF
ALTER DATABASE [TechnoService] SET QUERY STORE = ON
ALTER DATABASE [TechnoService] SET QUERY STORE (OPERATION MODE = READ WRITE,
CLEANUP POLICY = (STALE QUERY THRESHOLD DAYS = 30),
DATA FLUSH INTERVAL SECONDS = 900, INTERVAL LENGTH MINUTES = 60,
MAX STORAGE SIZE MB = 1000, QUERY CAPTURE MODE = AUTO,
SIZE BASED CLEANUP MODE = AUTO, MAX PLANS PER QUERY = 200,
WAIT STATS CAPTURE MODE = ON)
GO
USE [TechnoService]
/***** Object: Table [dbo].[Client] Script Date: 19.12.2024 13:51:05
*****/
SET ANSI NULLS ON
SET QUOTED IDENTIFIER ON
CREATE TABLE [dbo].[Client](
        [client id] [int] IDENTITY(1,1) NOT NULL,
        [client name] [varchar] (50) NULL,
        [client surname] [varchar] (50) NULL,
        [client secondName] [varchar] (50) NULL,
        [contact info] [varchar] (100) NULL,
PRIMARY KEY CLUSTERED
        [client id] ASC
) WITH (PAD INDEX = OFF, STATISTICS NORECOMPUTE = OFF, IGNORE DUP KEY = OFF,
ALLOW ROW LOCKS = ON, ALLOW PAGE LOCKS = ON, OPTIMIZE FOR SEQUENTIAL KEY =
OFF) ON [PRIMARY]
) ON [PRIMARY]
GO
*****/
SET ANSI NULLS ON
GO
SET QUOTED IDENTIFIER ON
CREATE TABLE [dbo].[Equipment](
        [equipment id] [int] IDENTITY(1,1) NOT NULL,
```

```
[serial number] [varchar] (50) NULL,
        [type] [varchar] (50) NULL,
       [description] [varchar] (255) NULL,
PRIMARY KEY CLUSTERED
        [equipment id] ASC
) WITH (PAD INDEX = OFF, STATISTICS NORECOMPUTE = OFF, IGNORE DUP KEY = OFF,
ALLOW ROW LOCKS = ON, ALLOW PAGE LOCKS = ON, OPTIMIZE FOR SEQUENTIAL KEY =
OFF) ON [PRIMARY]
) ON [PRIMARY]
GO
/***** Object: Table [dbo].[FaultType] Script Date: 19.12.2024 13:51:05
*****/
SET ANSI NULLS ON
SET QUOTED IDENTIFIER ON
CREATE TABLE [dbo].[FaultType](
       [fault type id] [int] IDENTITY(1,1) NOT NULL,
       [description] [varchar] (255) NULL,
PRIMARY KEY CLUSTERED
       [fault type id] ASC
) WITH (PAD INDEX = OFF, STATISTICS NORECOMPUTE = OFF, IGNORE DUP KEY = OFF,
ALLOW ROW LOCKS = ON, ALLOW PAGE LOCKS = ON, OPTIMIZE FOR SEQUENTIAL KEY =
OFF) ON [PRIMARY]
) ON [PRIMARY]
GO
*****/
SET ANSI NULLS ON
GO
SET QUOTED IDENTIFIER ON
CREATE TABLE [dbo].[Position](
        [position id] [int] IDENTITY(1,1) NOT NULL,
        [position name] [varchar] (50) NULL,
PRIMARY KEY CLUSTERED
(
       [position id] ASC
) WITH (PAD INDEX = OFF, STATISTICS NORECOMPUTE = OFF, IGNORE DUP KEY = OFF,
ALLOW ROW LOCKS = ON, ALLOW PAGE LOCKS = ON, OPTIMIZE FOR SEQUENTIAL KEY =
OFF) ON [PRIMARY]
) ON [PRIMARY]
/***** Object: Table [dbo].[Priority] Script Date: 19.12.2024 13:51:05
*****/
SET ANSI NULLS ON
GO
SET QUOTED IDENTIFIER ON
CREATE TABLE [dbo].[Priority](
       [priority id] [int] IDENTITY(1,1) NOT NULL,
       [priority_name] [varchar](50) NULL,
PRIMARY KEY CLUSTERED
       [priority id] ASC
) WITH (PAD INDEX = OFF, STATISTICS NORECOMPUTE = OFF, IGNORE DUP KEY = OFF,
ALLOW ROW LOCKS = ON, ALLOW PAGE LOCKS = ON, OPTIMIZE FOR SEQUENTIAL KEY =
OFF) ON [PRIMARY]
) ON [PRIMARY]
GO
```

```
SET ANSI NULLS ON
GO
SET QUOTED IDENTIFIER ON
GO
CREATE TABLE [dbo].[Request](
        [request id] [int] IDENTITY(1,1) NOT NULL,
        [date created] [datetime] NULL,
        [date ended] [datetime] NULL,
        [equipment id] [int] NULL,
        [fault type id] [int] NULL,
        [problem description] [varchar] (255) NULL,
        [client id] [int] NULL,
        [technician id] [int] NULL,
        [status id] [int] NULL,
        [priority id] [int] NULL,
PRIMARY KEY CLUSTERED
        [request id] ASC
) WITH (PAD INDEX = OFF, STATISTICS NORECOMPUTE = OFF, IGNORE DUP KEY = OFF,
ALLOW ROW LOCKS = ON, ALLOW PAGE LOCKS = ON, OPTIMIZE FOR SEQUENTIAL KEY =
OFF) ON [PRIMARY]
) ON [PRIMARY]
/***** Object: Table [dbo].[RequestLog]
                                            Script Date: 19.12.2024
13:51:05 *****/
SET ANSI NULLS ON
SET QUOTED IDENTIFIER ON
CREATE TABLE [dbo].[RequestLog](
        [log id] [int] IDENTITY(1,1) NOT NULL,
        [request id] [int] NULL,
        [date_changed] [datetime] NULL,
        [comment] [varchar] (255) NULL,
PRIMARY KEY CLUSTERED
        [log id] ASC
) WITH (PAD INDEX = OFF, STATISTICS NORECOMPUTE = OFF, IGNORE DUP KEY = OFF,
ALLOW ROW LOCKS = ON, ALLOW PAGE LOCKS = ON, OPTIMIZE FOR SEQUENTIAL KEY =
OFF) ON [PRIMARY]
) ON [PRIMARY]
GO
/***** Object: Table [dbo].[Status] Script Date: 19.12.2024 13:51:05
*****/
SET ANSI NULLS ON
GO
SET QUOTED IDENTIFIER ON
CREATE TABLE [dbo].[Status](
        [status id] [int] IDENTITY(1,1) NOT NULL,
        [status name] [varchar] (50) NULL,
PRIMARY KEY CLUSTERED
(
        [status id] ASC
) WITH (PAD INDEX = OFF, STATISTICS NORECOMPUTE = OFF, IGNORE DUP KEY = OFF,
ALLOW ROW LOCKS = ON, ALLOW PAGE LOCKS = ON, OPTIMIZE FOR SEQUENTIAL KEY =
OFF) ON [PRIMARY]
) ON [PRIMARY]
GO
/***** Object: Table [dbo].[Technician] Script Date: 19.12.2024
13:51:05 *****/
SET ANSI NULLS ON
GO
SET QUOTED IDENTIFIER ON
```

```
GO
CREATE TABLE [dbo].[Technician](
        [technician id] [int] IDENTITY(1,1) NOT NULL,
        [technician_surname] [varchar](50) NULL,
        [technician name] [varchar] (50) NULL,
        [technician secondName] [varchar] (50) NULL,
        [position_id] [int] NULL,
        [contact info] [varchar] (100) NULL,
PRIMARY KEY CLUSTERED
        [technician id] ASC
) WITH (PAD INDEX = OFF, STATISTICS NORECOMPUTE = OFF, IGNORE DUP KEY = OFF,
ALLOW ROW LOCKS = ON, ALLOW PAGE LOCKS = ON, OPTIMIZE_FOR_SEQUENTIAL_KEY =
OFF) ON [PRIMARY]
) ON [PRIMARY]
GO
/***** Object: Table [dbo].[Users] Script Date: 19.12.2024 13:51:05
*****/
SET ANSI NULLS ON
GO
SET QUOTED IDENTIFIER ON
GO
CREATE TABLE [dbo].[Users](
        [userID] [int] IDENTITY(1,1) NOT NULL,
        [Login] [varchar] (50) NULL,
        [Password] [varchar] (50) NULL,
        [TechnicianID] [int] NULL,
PRIMARY KEY CLUSTERED
        [userID] ASC
) WITH (PAD INDEX = OFF, STATISTICS NORECOMPUTE = OFF, IGNORE DUP KEY = OFF,
ALLOW ROW LOCKS = ON, ALLOW PAGE LOCKS = ON, OPTIMIZE FOR SEQUENTIAL KEY =
OFF) ON [PRIMARY]
) ON [PRIMARY]
GO
SET IDENTITY INSERT [dbo].[Client] ON
INSERT [dbo].[Client] ([client id], [client name], [client surname],
[client secondName], [contact info]) VALUES (1, N'Иван', N'Галькин',
N'Антонович', N'ivan@mail.ru')
INSERT [dbo].[Client] ([client_id], [client_name], [client_surname],
[client secondName], [contact info]) VALUES (2, N'Владимир', N'Кашин',
N'Михайлович', N'vovak@example.com')
INSERT [dbo].[Client] ([client_id], [client_name], [client_surname],
[client secondName], [contact info]) VALUES (3, N'Вячеслав, N'Медведев,
N'Cepreевич', N'vyach@gmail.com')
GO
INSERT [dbo].[Client] ([client id], [client name], [client surname],
[client secondName], [contact info]) VALUES (4, N'Светлана', N'Бибирева',
N'Николаевна', N'svetochka@yandex.ru')
GO
INSERT [dbo].[Client] ([client id], [client name], [client surname],
[client secondName], [contact info]) VALUES (5, N'Андрей', N'Фролов',
N'Павлович', N'andrew@yahoo.com')
GO
SET IDENTITY INSERT [dbo].[Client] OFF
GO
SET IDENTITY INSERT [dbo].[Equipment] ON
INSERT [dbo].[Equipment] ([equipment id], [serial number], [type],
[description]) VALUES (1, N'SN001', N'Принтер', N'Офисный принтер DELL
1324')
```

```
GO
INSERT [dbo].[Equipment] ([equipment id], [serial number], [type],
[description]) VALUES (2, N'SN002', N'Hoytfok', N'Dell Latitude 5500')
INSERT [dbo].[Equipment] ([equipment id], [serial number], [type],
[description]) VALUES (3, N'SN003', N'Poytep', N'Cisco Router X500')
INSERT [dbo].[Equipment] ([equipment id], [serial number], [type],
[description]) VALUES (4, N'SN004', N'MOHИТОР', N'HP 24-inch LED')
GO
INSERT [dbo].[Equipment] ([equipment id], [serial number], [type],
[description]) VALUES (5, N'SN005', N'Cepbep', N'IBM X-Series Server')
SET IDENTITY INSERT [dbo].[Equipment] OFF
GO
SET IDENTITY INSERT [dbo].[FaultType] ON
INSERT [dbo].[FaultType] ([fault type id], [description]) VALUES (1,
N'Проблема с питанием')
INSERT [dbo]. [FaultType] ([fault type id], [description]) VALUES (2,
N'Сетевая неполадка')
INSERT [dbo]. [FaultType] ([fault type id], [description]) VALUES (3,
N'Физическая поломка')
INSERT [dbo]. [FaultType] ([fault type id], [description]) VALUES (4,
N'Программная ошибка')
INSERT [dbo]. [FaultType] ([fault type id], [description]) VALUES (5,
N'Неизвестная ошибка')
GO
SET IDENTITY INSERT [dbo].[FaultType] OFF
SET IDENTITY INSERT [dbo].[Position] ON
INSERT [dbo]. [Position] ([position id], [position name]) VALUES (1,
N'Texник')
INSERT [dbo]. [Position] ([position id], [position name]) VALUES (2,
N'Главный техник')
INSERT [dbo].[Position] ([position id], [position name]) VALUES (3,
И'Инженер')
INSERT [dbo]. [Position] ([position id], [position name]) VALUES (4,
N'Менеджер')
INSERT [dbo].[Position] ([position id], [position name]) VALUES (5,
N'Стажер')
GO
SET IDENTITY INSERT [dbo].[Position] OFF
GO
SET IDENTITY INSERT [dbo].[Priority] ON
INSERT [dbo]. [Priority] ([priority id], [priority name]) VALUES (1,
N'Низкий')
GO
INSERT [dbo]. [Priority] ([priority id], [priority name]) VALUES (2,
N'Средний')
GO
INSERT [dbo]. [Priority] ([priority id], [priority name]) VALUES (3,
N'Высокий')
GO
```

```
INSERT [dbo].[Priority] ([priority_id], [priority_name]) VALUES (4,
N'Критический')
GO
INSERT [dbo]. [Priority] ([priority id], [priority name]) VALUES (5,
N'Срочный')
GO
SET IDENTITY INSERT [dbo].[Priority] OFF
SET IDENTITY INSERT [dbo].[Request] ON
GO
INSERT [dbo].[Request] ([request id], [date created], [date ended],
[equipment id], [fault type id], [problem description], [client id],
[technician id], [status id], [priority id]) VALUES (1, CAST(N'2024-01-
12T10:00:00.000' AS DateTime), CAST(N'2024-02-12T15:00:00.000' AS DateTime),
1, 1, N'He paботает принтер', 1, 1, 1, 3)
GO
INSERT [dbo].[Request] ([request id], [date created], [date ended],
[equipment id], [fault type id], [problem description], [client id],
[technician id], [status id], [priority id]) VALUES (2, CAST(N'2024-03-
12T11:00:00.000' AS DateTime), CAST(N'2024-04-12T14:00:00.000' AS DateTime),
2, 2, N'Перегревается ноутбук', 2, 2, 2, 2)
GO
INSERT [dbo].[Request] ([request id], [date created], [date ended],
[equipment id], [fault type id], [problem description], [client id],
[technician id], [status id], [priority id]) VALUES (3, CAST(N'2024-05-
12T12:00:00.000' AS DateTime), NULL, 3, 3, N'Poytep не подключается к сети',
3, 3, 3, 4)
GO
INSERT [dbo].[Request] ([request id], [date created], [date ended],
[equipment id], [fault type id], [problem description], [client id],
[technician id], [status id], [priority id]) VALUES (4, CAST(N'2024-06-
12T13:00:00.000' AS DateTime), CAST(N'2024-07-12T16:00:00.000' AS DateTime),
4, 4, N'Мерцает экран монитора', 4, 4, 4, 1)
GO
INSERT [dbo].[Request] ([request id], [date created], [date ended],
[equipment id], [fault type id], [problem description], [client id],
[technician_id], [status_id], [priority_id]) VALUES (5, CAST(N'2024-08-
12T14:00:00.000' AS DateTime), NULL, 5, 5, N'Сервер не запускается', 5, 5,
5, 5)
GO
SET IDENTITY INSERT [dbo].[Request] OFF
SET IDENTITY INSERT [dbo].[RequestLog] ON
INSERT [dbo].[RequestLog] ([log id], [request id], [date changed],
[comment]) VALUES (1, 1, CAST(N'2024-01-12T12:00:00.000' AS DateTime),
N'Принято в обработку')
INSERT [dbo].[RequestLog] ([log id], [request_id], [date_changed],
[comment]) VALUES (2, 2, CAST(N'2024-03-12T13:00:00.000' AS DateTime),
N'Детали заказаны')
INSERT [dbo].[RequestLog] ([log id], [request id], [date changed],
[comment]) VALUES (3, 3, CAST(N'2024-05-12T14:00:00.000' AS DateTime),
N'Ожидается подтверждение от клиента')
INSERT [dbo].[RequestLog] ([log id], [request id], [date changed],
[comment]) VALUES (4, 4, CAST(N 2024-06-12T15:00:00.000' AS DateTime),
N'Проблема решена')
INSERT [dbo].[RequestLog] ([log id], [request id], [date changed],
[comment]) VALUES (5, 5, CAST(N 2024-08-12T16:00:00.000' AS DateTime),
N'Техник прикреплен')
GO
```

```
SET IDENTITY INSERT [dbo].[RequestLog] OFF
GO
SET IDENTITY INSERT [dbo].[Status] ON
GO
INSERT [dbo].[Status] ([status id], [status name]) VALUES (1, N'Открыть')
INSERT [dbo].[Status] ([status id], [status name]) VALUES (2, N'B προμεςςε')
INSERT [dbo].[Status] ([status id], [status name]) VALUES (3, N'Pemeho')
INSERT [dbo].[Status] ([status id], [status name]) VALUES (4, N'Закрыто')
INSERT [dbo].[Status] ([status id], [status name]) VALUES (5, N'Заморожено')
SET IDENTITY INSERT [dbo].[Status] OFF
SET IDENTITY INSERT [dbo].[Technician] ON
GO
INSERT [dbo].[Technician] ([technician id], [technician surname],
[technician name], [technician secondName], [position id], [contact info])
VALUES (1, \overline{N}'Иванов', \overline{N}'Алексе\overline{n}', \overline{N}'Петрович', 1,
N'ivanov.alexey@example.com')
INSERT [dbo].[Technician] ([technician id], [technician surname],
[technician name], [technician secondName], [position id], [contact info])
VALUES (2, N'Петрова', N'Мария, N'Сергеевна', 2,
N'petrova.maria@example.com')
GO
INSERT [dbo].[Technician] ([technician id], [technician surname],
[technician name], [technician secondName], [position id], [contact info])
VALUES (3, N'Смирнов', N'Дмитрий', N'Владимирович', 3,
N'smirnov.dmitry@example.com')
INSERT [dbo].[Technician] ([technician id], [technician surname],
[technician name], [technician secondName], [position id], [contact info])
VALUES (4, N'Кузнецова', N'Елена', N'Игоревна', 4,
N'kuznetsova.elena@example.com')
INSERT [dbo]. [Technician] ([technician id], [technician surname],
[technician name], [technician secondName], [position id], [contact info])
VALUES (5, N'Лебедев', N'Сергей', N'Анатольевич', 5,
N'lebedev.sergey@example.com')
SET IDENTITY INSERT [dbo].[Technician] OFF
SET IDENTITY INSERT [dbo].[Users] ON
INSERT [dbo].[Users] ([userID], [Login], [Password], [TechnicianID]) VALUES
(1, N'user1', N'wlejikghfo24', 1)
INSERT [dbo].[Users] ([userID], [Login], [Password], [TechnicianID]) VALUES
(2, N'user2', N'gg48gh', 2)
GO
INSERT [dbo].[Users] ([userID], [Login], [Password], [TechnicianID]) VALUES
(3, N'user3', N'pass123123', 3)
INSERT [dbo].[Users] ([userID], [Login], [Password], [TechnicianID]) VALUES
(4, N'user4', N'12222534', 4)
GO
INSERT [dbo].[Users] ([userID], [Login], [Password], [TechnicianID]) VALUES
(5, N'user5', N'admin999', 5)
GO
SET IDENTITY INSERT [dbo].[Users] OFF
GO
```

```
ALTER TABLE [dbo].[Request] WITH CHECK ADD FOREIGN KEY([client id])
REFERENCES [dbo].[Client] ([client id])
GO
ALTER TABLE [dbo].[Request] WITH CHECK ADD FOREIGN KEY([equipment id])
REFERENCES [dbo].[Equipment] ([equipment id])
GO
ALTER TABLE [dbo].[Request] WITH CHECK ADD FOREIGN KEY([fault type id])
REFERENCES [dbo].[FaultType] ([fault_type_id])
ALTER TABLE [dbo]. [Request] WITH CHECK ADD FOREIGN KEY([priority id])
REFERENCES [dbo].[Priority] ([priority id])
ALTER TABLE [dbo].[Request] WITH CHECK ADD FOREIGN KEY([status id])
REFERENCES [dbo].[Status] ([status id])
ALTER TABLE [dbo]. [Request] WITH CHECK ADD FOREIGN KEY([technician id])
REFERENCES [dbo].[Technician] ([technician id])
ALTER TABLE [dbo]. [RequestLog] WITH CHECK ADD FOREIGN KEY([request id])
REFERENCES [dbo].[Request] ([request id])
ALTER TABLE [dbo]. [Technician] WITH CHECK ADD FOREIGN KEY([position id])
REFERENCES [dbo].[Position] ([position id])
ALTER TABLE [dbo].[Users] WITH CHECK ADD FOREIGN KEY([TechnicianID])
REFERENCES [dbo].[Technician] ([technician id])
GO
USE [master]
GO
ALTER DATABASE [TechnoService] SET READ WRITE
GO
```