**Проектирование базы данных и разработка**

**объектов базы данных.**

Выполнил:

Студент группы 4ИСИП-321

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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.

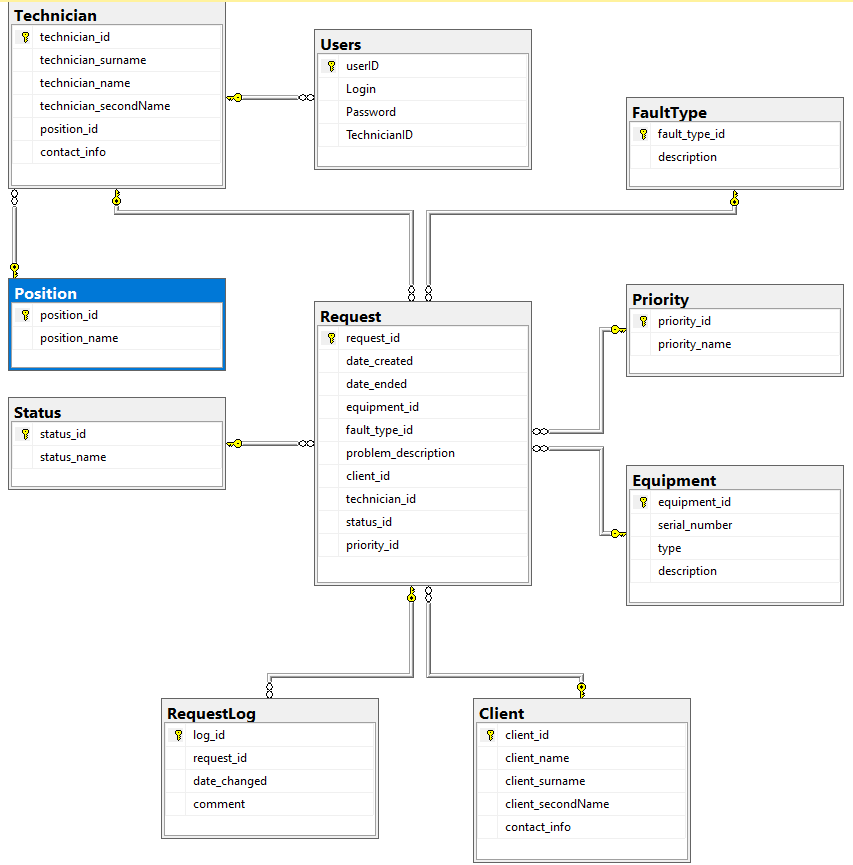


Рисунок 1 – ER диаграмма

На рисунках 2-11 представлено наполнение таблиц БД.

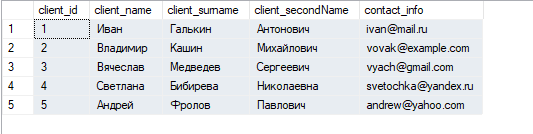


Рисунок 2 – Таблица Client

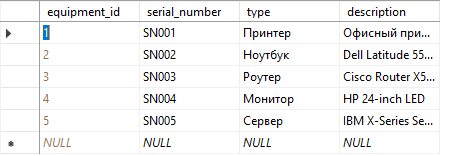


Рисунок 3 – Таблица Equipment



Рисунок 4 – Таблица Technician

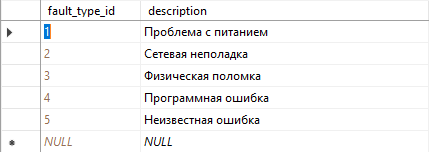


Рисунок 5 – Таблица FaultType

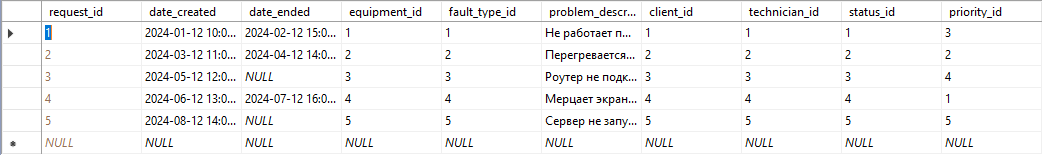


Рисунок 6 – Таблица Requests

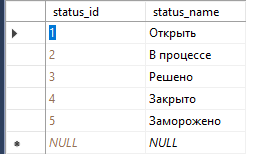


Рисунок 7 – Таблица Status



Рисунок 8 – Таблица Position

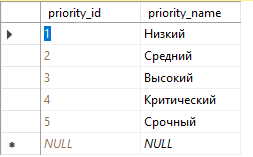


Рисунок 9 – Таблица Priority

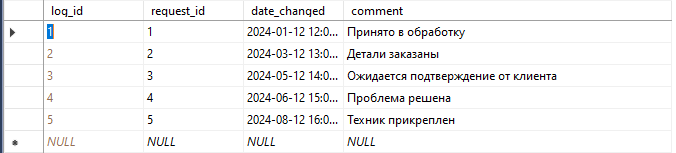


Рисунок 10 – Таблица RequestLog

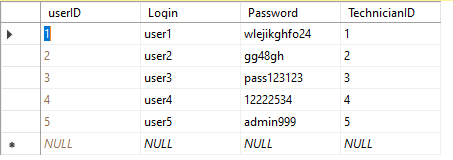


Рисунок 11 – Таблица Users

Скрипт для создания БД отражен в листинге 1.

Листинг 1 – Скрипт для создания БД

|  |
| --- |
| USE [master]  GO  /\*\*\*\*\*\* 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  GO  ALTER DATABASE [TechnoService] SET COMPATIBILITY\_LEVEL = 160  GO  IF (1 = FULLTEXTSERVICEPROPERTY('IsFullTextInstalled'))  begin  EXEC [TechnoService].[dbo].[sp\_fulltext\_database] @action = 'enable'  end  GO  ALTER DATABASE [TechnoService] SET ANSI\_NULL\_DEFAULT OFF  GO  ALTER DATABASE [TechnoService] SET ANSI\_NULLS OFF  GO  ALTER DATABASE [TechnoService] SET ANSI\_PADDING OFF  GO  ALTER DATABASE [TechnoService] SET ANSI\_WARNINGS OFF  GO  ALTER DATABASE [TechnoService] SET ARITHABORT OFF  GO  ALTER DATABASE [TechnoService] SET AUTO\_CLOSE OFF  GO  ALTER DATABASE [TechnoService] SET AUTO\_SHRINK OFF  GO  ALTER DATABASE [TechnoService] SET AUTO\_UPDATE\_STATISTICS ON  GO  ALTER DATABASE [TechnoService] SET CURSOR\_CLOSE\_ON\_COMMIT OFF  GO  ALTER DATABASE [TechnoService] SET CURSOR\_DEFAULT GLOBAL  GO  ALTER DATABASE [TechnoService] SET CONCAT\_NULL\_YIELDS\_NULL OFF  GO  ALTER DATABASE [TechnoService] SET NUMERIC\_ROUNDABORT OFF  GO  ALTER DATABASE [TechnoService] SET QUOTED\_IDENTIFIER OFF  GO  ALTER DATABASE [TechnoService] SET RECURSIVE\_TRIGGERS OFF  GO  ALTER DATABASE [TechnoService] SET DISABLE\_BROKER  GO  ALTER DATABASE [TechnoService] SET AUTO\_UPDATE\_STATISTICS\_ASYNC OFF  GO  ALTER DATABASE [TechnoService] SET DATE\_CORRELATION\_OPTIMIZATION OFF  GO  ALTER DATABASE [TechnoService] SET TRUSTWORTHY OFF  GO  ALTER DATABASE [TechnoService] SET ALLOW\_SNAPSHOT\_ISOLATION OFF  GO  ALTER DATABASE [TechnoService] SET PARAMETERIZATION SIMPLE  GO  ALTER DATABASE [TechnoService] SET READ\_COMMITTED\_SNAPSHOT OFF  GO  ALTER DATABASE [TechnoService] SET HONOR\_BROKER\_PRIORITY OFF  GO  ALTER DATABASE [TechnoService] SET RECOVERY SIMPLE  GO  ALTER DATABASE [TechnoService] SET MULTI\_USER  GO  ALTER DATABASE [TechnoService] SET PAGE\_VERIFY CHECKSUM  GO  ALTER DATABASE [TechnoService] SET DB\_CHAINING OFF  GO  ALTER DATABASE [TechnoService] SET FILESTREAM( NON\_TRANSACTED\_ACCESS = OFF )  GO  ALTER DATABASE [TechnoService] SET TARGET\_RECOVERY\_TIME = 60 SECONDS  GO  ALTER DATABASE [TechnoService] SET DELAYED\_DURABILITY = DISABLED  GO  ALTER DATABASE [TechnoService] SET ACCELERATED\_DATABASE\_RECOVERY = OFF  GO  ALTER DATABASE [TechnoService] SET QUERY\_STORE = ON  GO  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]  GO  /\*\*\*\*\*\* Object: Table [dbo].[Client] Script Date: 19.12.2024 13:51:05 \*\*\*\*\*\*/  SET ANSI\_NULLS ON  GO  SET QUOTED\_IDENTIFIER ON  GO  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  /\*\*\*\*\*\* Object: Table [dbo].[Equipment] Script Date: 19.12.2024 13:51:05 \*\*\*\*\*\*/  SET ANSI\_NULLS ON  GO  SET QUOTED\_IDENTIFIER ON  GO  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  GO  SET QUOTED\_IDENTIFIER ON  GO  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  /\*\*\*\*\*\* Object: Table [dbo].[Position] Script Date: 19.12.2024 13:51:05 \*\*\*\*\*\*/  SET ANSI\_NULLS ON  GO  SET QUOTED\_IDENTIFIER ON  GO  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]  GO  /\*\*\*\*\*\* Object: Table [dbo].[Priority] Script Date: 19.12.2024 13:51:05 \*\*\*\*\*\*/  SET ANSI\_NULLS ON  GO  SET QUOTED\_IDENTIFIER ON  GO  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  /\*\*\*\*\*\* Object: Table [dbo].[Request] Script Date: 19.12.2024 13:51:05 \*\*\*\*\*\*/  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]  GO  /\*\*\*\*\*\* Object: Table [dbo].[RequestLog] Script Date: 19.12.2024 13:51:05 \*\*\*\*\*\*/  SET ANSI\_NULLS ON  GO  SET QUOTED\_IDENTIFIER ON  GO  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  GO  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  GO  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')  GO  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')  GO  INSERT [dbo].[Client] ([client\_id], [client\_name], [client\_surname], [client\_secondName], [contact\_info]) VALUES (3, N'Вячеслав', N'Медведев', N'Сергеевич', 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  GO  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'Ноутбук', N'Dell Latitude 5500')  GO  INSERT [dbo].[Equipment] ([equipment\_id], [serial\_number], [type], [description]) VALUES (3, N'SN003', N'Роутер', N'Cisco Router X500')  GO  INSERT [dbo].[Equipment] ([equipment\_id], [serial\_number], [type], [description]) VALUES (4, N'SN004', N'Монитор', N'HP 24-inch LED')  GO  INSERT [dbo].[Equipment] ([equipment\_id], [serial\_number], [type], [description]) VALUES (5, N'SN005', N'Сервер', N'IBM X-Series Server')  GO  SET IDENTITY\_INSERT [dbo].[Equipment] OFF  GO  SET IDENTITY\_INSERT [dbo].[FaultType] ON  GO  INSERT [dbo].[FaultType] ([fault\_type\_id], [description]) VALUES (1, N'Проблема с питанием')  GO  INSERT [dbo].[FaultType] ([fault\_type\_id], [description]) VALUES (2, N'Сетевая неполадка')  GO  INSERT [dbo].[FaultType] ([fault\_type\_id], [description]) VALUES (3, N'Физическая поломка')  GO  INSERT [dbo].[FaultType] ([fault\_type\_id], [description]) VALUES (4, N'Программная ошибка')  GO  INSERT [dbo].[FaultType] ([fault\_type\_id], [description]) VALUES (5, N'Неизвестная ошибка')  GO  SET IDENTITY\_INSERT [dbo].[FaultType] OFF  GO  SET IDENTITY\_INSERT [dbo].[Position] ON  GO  INSERT [dbo].[Position] ([position\_id], [position\_name]) VALUES (1, N'Техник')  GO  INSERT [dbo].[Position] ([position\_id], [position\_name]) VALUES (2, N'Главный техник')  GO  INSERT [dbo].[Position] ([position\_id], [position\_name]) VALUES (3, N'Инженер')  GO  INSERT [dbo].[Position] ([position\_id], [position\_name]) VALUES (4, N'Менеджер')  GO  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  GO  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  GO  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'Не работает 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'Роутер 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  GO  SET IDENTITY\_INSERT [dbo].[RequestLog] ON  GO  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')  GO  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')  GO  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')  GO  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')  GO  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')  GO  INSERT [dbo].[Status] ([status\_id], [status\_name]) VALUES (2, N'В процессе')  GO  INSERT [dbo].[Status] ([status\_id], [status\_name]) VALUES (3, N'Решено')  GO  INSERT [dbo].[Status] ([status\_id], [status\_name]) VALUES (4, N'Закрыто')  GO  INSERT [dbo].[Status] ([status\_id], [status\_name]) VALUES (5, N'Заморожено')  GO  SET IDENTITY\_INSERT [dbo].[Status] OFF  GO  SET IDENTITY\_INSERT [dbo].[Technician] ON  GO  INSERT [dbo].[Technician] ([technician\_id], [technician\_surname], [technician\_name], [technician\_secondName], [position\_id], [contact\_info]) VALUES (1, N'Иванов', N'Алексей', N'Петрович', 1, N'ivanov.alexey@example.com')  GO  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')  GO  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')  GO  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')  GO  SET IDENTITY\_INSERT [dbo].[Technician] OFF  GO  SET IDENTITY\_INSERT [dbo].[Users] ON  GO  INSERT [dbo].[Users] ([userID], [Login], [Password], [TechnicianID]) VALUES (1, N'user1', N'wlejikghfo24', 1)  GO  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)  GO  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])  GO  ALTER TABLE [dbo].[Request] WITH CHECK ADD FOREIGN KEY([priority\_id])  REFERENCES [dbo].[Priority] ([priority\_id])  GO  ALTER TABLE [dbo].[Request] WITH CHECK ADD FOREIGN KEY([status\_id])  REFERENCES [dbo].[Status] ([status\_id])  GO  ALTER TABLE [dbo].[Request] WITH CHECK ADD FOREIGN KEY([technician\_id])  REFERENCES [dbo].[Technician] ([technician\_id])  GO  ALTER TABLE [dbo].[RequestLog] WITH CHECK ADD FOREIGN KEY([request\_id])  REFERENCES [dbo].[Request] ([request\_id])  GO  ALTER TABLE [dbo].[Technician] WITH CHECK ADD FOREIGN KEY([position\_id])  REFERENCES [dbo].[Position] ([position\_id])  GO  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 |