Baza Jednostki Wojskowej

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# Wstęp

Przedstawiona baza danych umożliwia proste zarządzanie jednostką wojskową. W bazie zawarte są wszystkie dane każdego żołnierza, sprzętu jaki jest na wyposażeniu jednostki, oraz informacje odnośnie stopni i specjalizacji.

# Analiza wymagań systemu



## Wymagania funkcjonalne

- Wybór, które dane powinny być wyświetlane,

- Wyświetlanie danych w czytelny sposób,

- Dodawanie danych do konkretnych tabel,

- Edycja danych,

- Usuwanie danych,

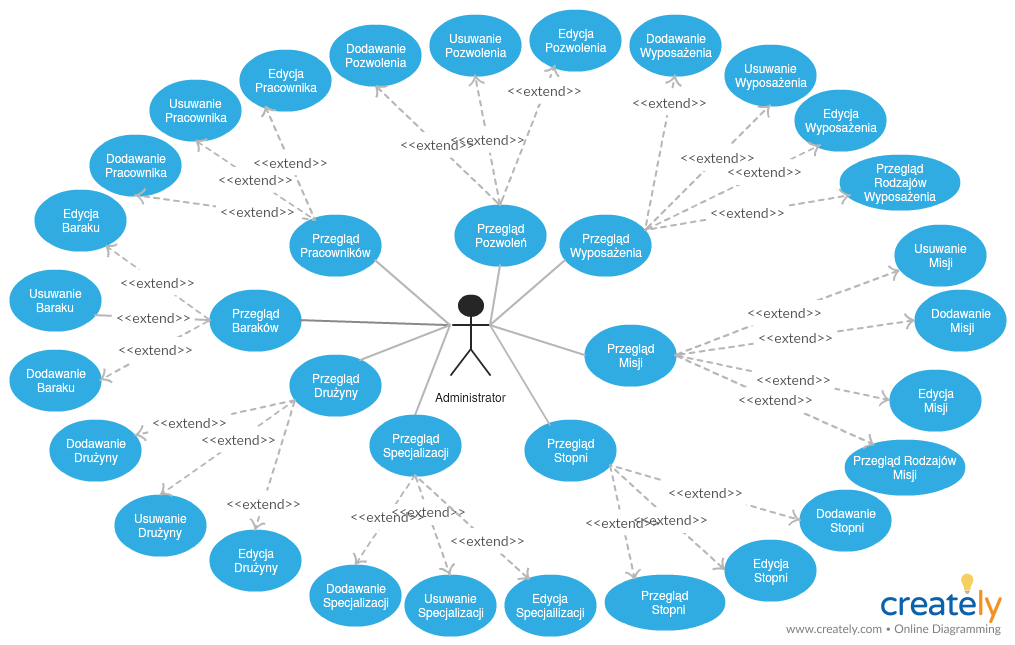
## Wymagania niefunkcjonalne

- Wydajność,

- Niezawodność,

- Łatwość użycia,

## Diagram przypadków użycia



# Wykorzystane technologie

- MicrosoftSQLServer

- Język C#

- WPF

- Entity Framework

- Caliburn Micro

# Projekt aplikacji



## Architektura aplikacji

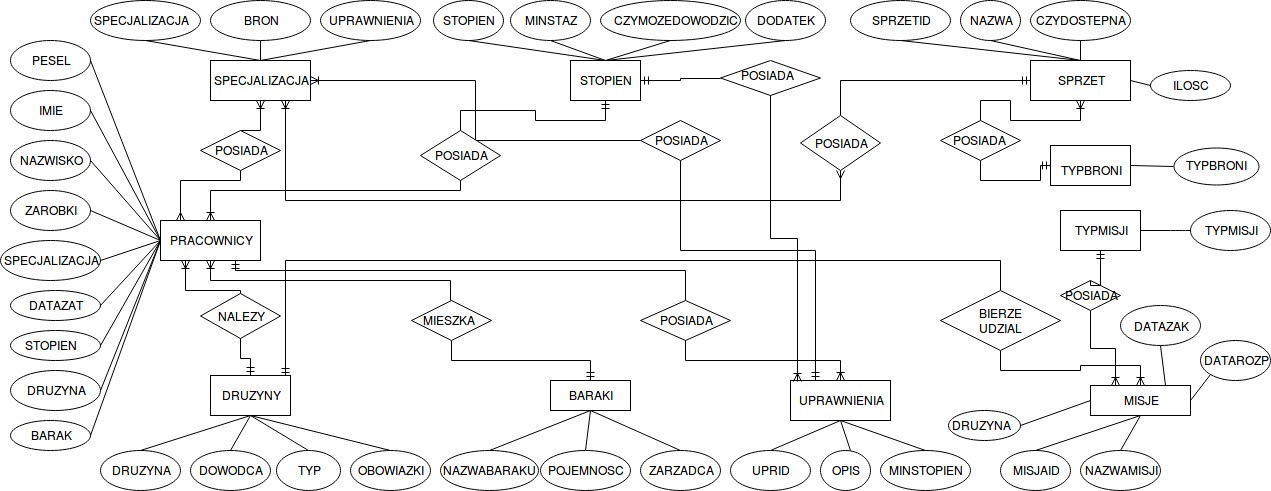
- Models – przechowuje modele bazy danych,

- Views – przechowuje widoki aplikacji,

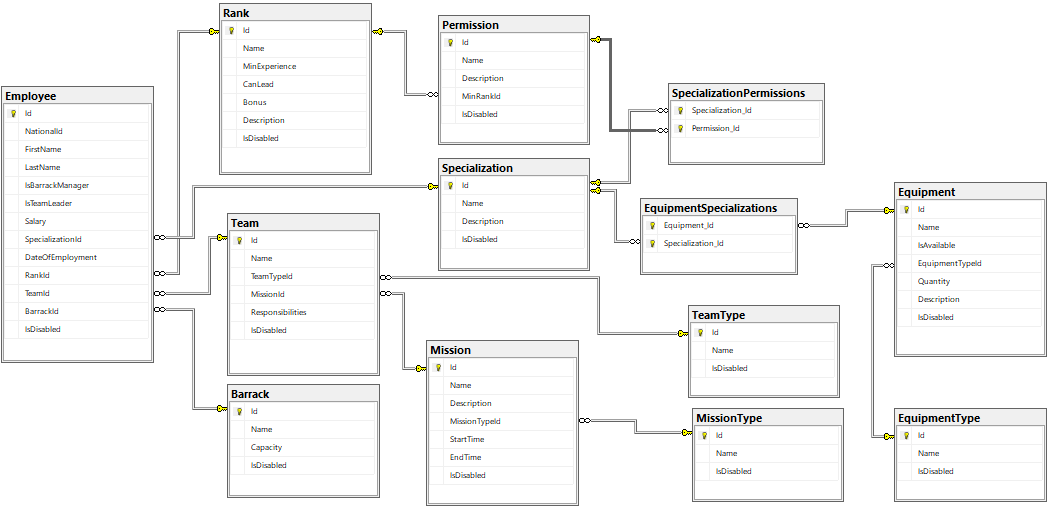
- ViewModels – odpowiada za logikę systemu

- Services – do obsługi bazy danych.

## Projekt koncepcyjny bazy danych



## Projekt schematu relacyjnego



## Mapowanie klas na tabele bazodanowe

Code First poprzez Entity Framework.



# Funkcjonalność aplikacji

- Przegląd, dodawanie, usuwanie i edycja pracowników,

- Przegląd, dodawanie, usuwanie i edycja baraków(koszar),

- Przegląd, dodawanie, usuwanie i edycja wyposażenia oraz jego typu,

- Przegląd, dodawanie, usuwanie i edycja misji oraz ich typów,

- Przegląd, dodawanie, usuwanie i edycja pozwoleń,

- Przegląd, dodawanie, usuwanie i edycja stopni,

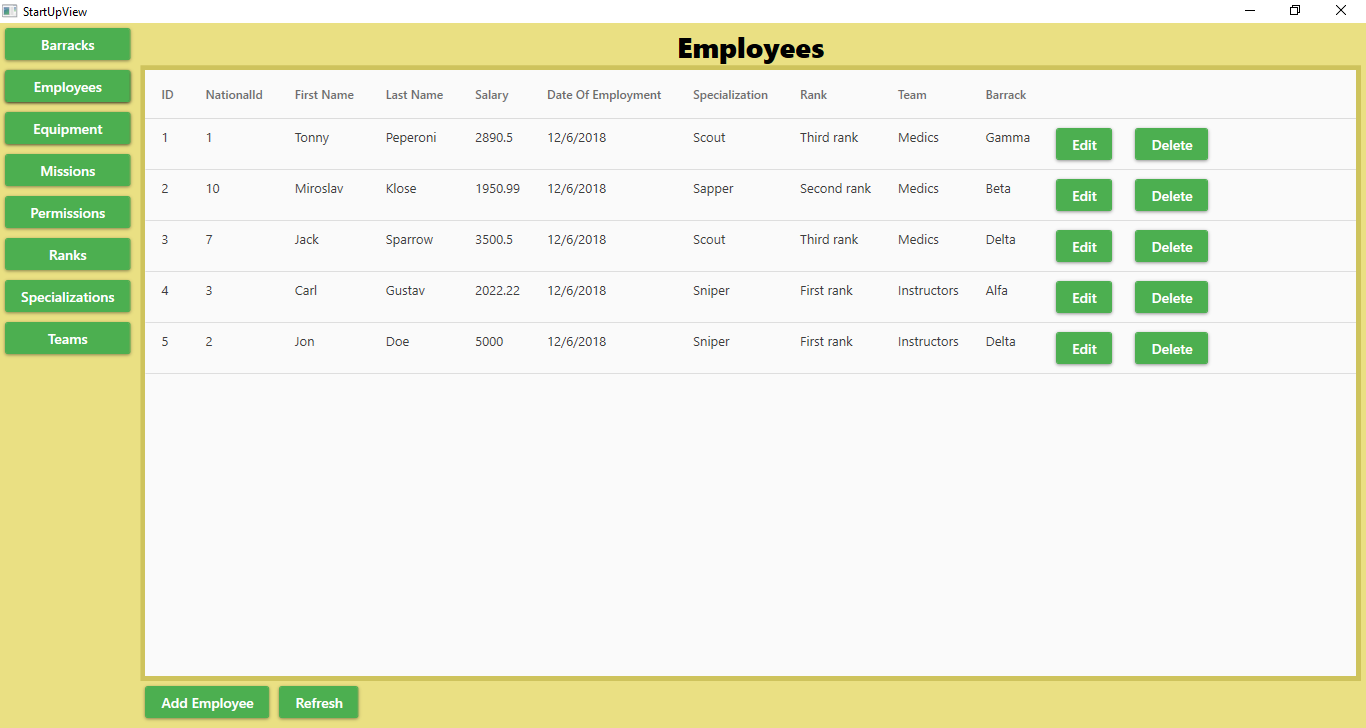
- Przegląd, dodawanie, usuwanie i edycja specjalizacji,

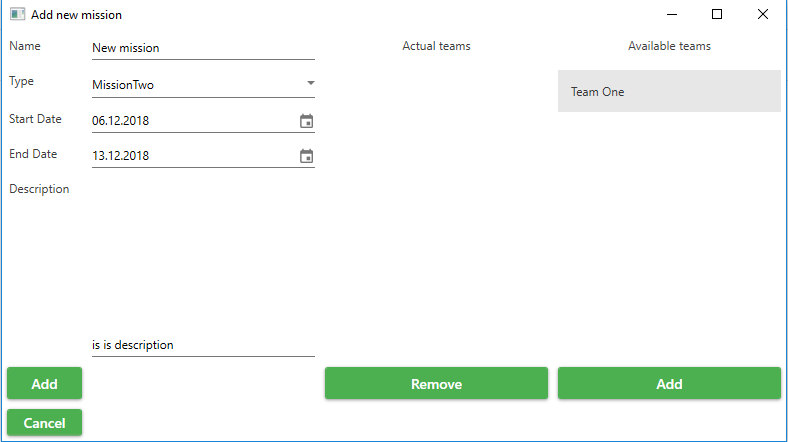
- Przegląd, dodawanie, usuwanie i edycja drużyn oraz ich typów,

- Wykrywanie czy istnieje baza danych,

- Możliwość wygenerowania przykładowej bazy danych.

# Interfejs użytkownika







# Podsumowanie

Aplikacja spełnia wszystkie wymagane funkcjonalności. Prosty interfejs sprawia, że obsługa aplikacji jest łatwa. Wszystkie zmiany wprowadzane przez użytkownika w aplikacji są uaktualniane w bazie danych.

# Dodatek A: Skrypty tworzące obiekty baz danych

CREATE DATABASE [ArmyBase]

GO

USE [ArmyBase]

GO

/\*\*\*\*\*\* Object: Table [dbo].[\_\_MigrationHistory] Script Date: 07.12.2018 00:31:00 \*\*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE TABLE [dbo].[\_\_MigrationHistory](

[MigrationId] [nvarchar](150) NOT NULL,

[ContextKey] [nvarchar](300) NOT NULL,

[Model] [varbinary](max) NOT NULL,

[ProductVersion] [nvarchar](32) NOT NULL,

CONSTRAINT [PK\_dbo.\_\_MigrationHistory] PRIMARY KEY CLUSTERED

(

[MigrationId] ASC,

[ContextKey] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON) ON [PRIMARY]

) ON [PRIMARY] TEXTIMAGE\_ON [PRIMARY]

GO

/\*\*\*\*\*\* Object: Table [dbo].[Barrack] Script Date: 07.12.2018 00:31:00 \*\*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE TABLE [dbo].[Barrack](

[Id] [int] IDENTITY(1,1) NOT NULL,

[Name] [nvarchar](max) NOT NULL,

[Capacity] [int] NOT NULL,

[IsDisabled] [bit] NOT NULL,

CONSTRAINT [PK\_dbo.Barrack] PRIMARY KEY CLUSTERED

(

[Id] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON) ON [PRIMARY]

) ON [PRIMARY] TEXTIMAGE\_ON [PRIMARY]

GO

/\*\*\*\*\*\* Object: Table [dbo].[Employee] Script Date: 07.12.2018 00:31:00 \*\*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE TABLE [dbo].[Employee](

[Id] [int] IDENTITY(1,1) NOT NULL,

[NationalId] [int] NOT NULL,

[FirstName] [nvarchar](max) NOT NULL,

[LastName] [nvarchar](max) NOT NULL,

[IsBarrackManager] [bit] NOT NULL,

[IsTeamLeader] [bit] NOT NULL,

[Salary] [float] NOT NULL,

[SpecializationId] [int] NULL,

[DateOfEmployment] [datetime] NOT NULL,

[RankId] [int] NULL,

[TeamId] [int] NULL,

[BarrackId] [int] NULL,

[IsDisabled] [bit] NOT NULL,

CONSTRAINT [PK\_dbo.Employee] PRIMARY KEY CLUSTERED

(

[Id] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON) ON [PRIMARY]

) ON [PRIMARY] TEXTIMAGE\_ON [PRIMARY]

GO

/\*\*\*\*\*\* Object: Table [dbo].[Equipment] Script Date: 07.12.2018 00:31:00 \*\*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE TABLE [dbo].[Equipment](

[Id] [int] IDENTITY(1,1) NOT NULL,

[Name] [nvarchar](max) NOT NULL,

[IsAvailable] [bit] NOT NULL,

[EquipmentTypeId] [int] NOT NULL,

[Quantity] [int] NOT NULL,

[Description] [nvarchar](max) NULL,

[IsDisabled] [bit] NOT NULL,

CONSTRAINT [PK\_dbo.Equipment] PRIMARY KEY CLUSTERED

(

[Id] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON) ON [PRIMARY]

) ON [PRIMARY] TEXTIMAGE\_ON [PRIMARY]

GO

/\*\*\*\*\*\* Object: Table [dbo].[EquipmentSpecializations] Script Date: 07.12.2018 00:31:00 \*\*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE TABLE [dbo].[EquipmentSpecializations](

[Equipment\_Id] [int] NOT NULL,

[Specialization\_Id] [int] NOT NULL,

CONSTRAINT [PK\_dbo.EquipmentSpecializations] PRIMARY KEY CLUSTERED

(

[Equipment\_Id] ASC,

[Specialization\_Id] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON) ON [PRIMARY]

) ON [PRIMARY]

GO

/\*\*\*\*\*\* Object: Table [dbo].[EquipmentType] Script Date: 07.12.2018 00:31:00 \*\*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE TABLE [dbo].[EquipmentType](

[Id] [int] IDENTITY(1,1) NOT NULL,

[Name] [nvarchar](max) NOT NULL,

[IsDisabled] [bit] NOT NULL,

CONSTRAINT [PK\_dbo.EquipmentType] PRIMARY KEY CLUSTERED

(

[Id] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON) ON [PRIMARY]

) ON [PRIMARY] TEXTIMAGE\_ON [PRIMARY]

GO

/\*\*\*\*\*\* Object: Table [dbo].[Mission] Script Date: 07.12.2018 00:31:00 \*\*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE TABLE [dbo].[Mission](

[Id] [int] IDENTITY(1,1) NOT NULL,

[Name] [nvarchar](max) NOT NULL,

[Description] [nvarchar](max) NULL,

[MissionTypeId] [int] NOT NULL,

[StartTime] [datetime] NOT NULL,

[EndTime] [datetime] NULL,

[IsDisabled] [bit] NOT NULL,

CONSTRAINT [PK\_dbo.Mission] PRIMARY KEY CLUSTERED

(

[Id] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON) ON [PRIMARY]

) ON [PRIMARY] TEXTIMAGE\_ON [PRIMARY]

GO

/\*\*\*\*\*\* Object: Table [dbo].[MissionType] Script Date: 07.12.2018 00:31:00 \*\*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE TABLE [dbo].[MissionType](

[Id] [int] IDENTITY(1,1) NOT NULL,

[Name] [nvarchar](max) NOT NULL,

[IsDisabled] [bit] NOT NULL,

CONSTRAINT [PK\_dbo.MissionType] PRIMARY KEY CLUSTERED

(

[Id] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON) ON [PRIMARY]

) ON [PRIMARY] TEXTIMAGE\_ON [PRIMARY]

GO

/\*\*\*\*\*\* Object: Table [dbo].[Permission] Script Date: 07.12.2018 00:31:00 \*\*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE TABLE [dbo].[Permission](

[Id] [int] IDENTITY(1,1) NOT NULL,

[Name] [nvarchar](max) NOT NULL,

[Description] [nvarchar](max) NULL,

[MinRankId] [int] NOT NULL,

[IsDisabled] [bit] NOT NULL,

CONSTRAINT [PK\_dbo.Permission] PRIMARY KEY CLUSTERED

(

[Id] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON) ON [PRIMARY]

) ON [PRIMARY] TEXTIMAGE\_ON [PRIMARY]

GO

/\*\*\*\*\*\* Object: Table [dbo].[Rank] Script Date: 07.12.2018 00:31:00 \*\*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE TABLE [dbo].[Rank](

[Id] [int] IDENTITY(1,1) NOT NULL,

[Name] [nvarchar](max) NOT NULL,

[MinExperience] [int] NOT NULL,

[CanLead] [bit] NOT NULL,

[Bonus] [int] NULL,

[Description] [nvarchar](max) NULL,

[IsDisabled] [bit] NOT NULL,

CONSTRAINT [PK\_dbo.Rank] PRIMARY KEY CLUSTERED

(

[Id] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON) ON [PRIMARY]

) ON [PRIMARY] TEXTIMAGE\_ON [PRIMARY]

GO

/\*\*\*\*\*\* Object: Table [dbo].[Specialization] Script Date: 07.12.2018 00:31:00 \*\*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE TABLE [dbo].[Specialization](

[Id] [int] IDENTITY(1,1) NOT NULL,

[Name] [nvarchar](max) NOT NULL,

[Description] [nvarchar](max) NULL,

[IsDisabled] [bit] NOT NULL,

CONSTRAINT [PK\_dbo.Specialization] PRIMARY KEY CLUSTERED

(

[Id] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON) ON [PRIMARY]

) ON [PRIMARY] TEXTIMAGE\_ON [PRIMARY]

GO

/\*\*\*\*\*\* Object: Table [dbo].[SpecializationPermissions] Script Date: 07.12.2018 00:31:00 \*\*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE TABLE [dbo].[SpecializationPermissions](

[Specialization\_Id] [int] NOT NULL,

[Permission\_Id] [int] NOT NULL,

CONSTRAINT [PK\_dbo.SpecializationPermissions] PRIMARY KEY CLUSTERED

(

[Specialization\_Id] ASC,

[Permission\_Id] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON) ON [PRIMARY]

) ON [PRIMARY]

GO

/\*\*\*\*\*\* Object: Table [dbo].[Team] Script Date: 07.12.2018 00:31:01 \*\*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE TABLE [dbo].[Team](

[Id] [int] IDENTITY(1,1) NOT NULL,

[Name] [nvarchar](max) NOT NULL,

[TeamTypeId] [int] NOT NULL,

[MissionId] [int] NULL,

[Responsibilities] [nvarchar](max) NULL,

[IsDisabled] [bit] NOT NULL,

CONSTRAINT [PK\_dbo.Team] PRIMARY KEY CLUSTERED

(

[Id] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON) ON [PRIMARY]

) ON [PRIMARY] TEXTIMAGE\_ON [PRIMARY]

GO

/\*\*\*\*\*\* Object: Table [dbo].[TeamType] Script Date: 07.12.2018 00:31:01 \*\*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE TABLE [dbo].[TeamType](

[Id] [int] IDENTITY(1,1) NOT NULL,

[Name] [nvarchar](max) NOT NULL,

[IsDisabled] [bit] NOT NULL,

CONSTRAINT [PK\_dbo.TeamType] PRIMARY KEY CLUSTERED

(

[Id] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON) ON [PRIMARY]

) ON [PRIMARY] TEXTIMAGE\_ON [PRIMARY]

GO

ALTER TABLE [dbo].[Barrack] ADD DEFAULT ((0)) FOR [IsDisabled]

GO

ALTER TABLE [dbo].[Employee] ADD DEFAULT ((0)) FOR [IsDisabled]

GO

ALTER TABLE [dbo].[Equipment] ADD DEFAULT ((0)) FOR [IsDisabled]

GO

ALTER TABLE [dbo].[EquipmentType] ADD DEFAULT ((0)) FOR [IsDisabled]

GO

ALTER TABLE [dbo].[Mission] ADD DEFAULT ((0)) FOR [IsDisabled]

GO

ALTER TABLE [dbo].[MissionType] ADD DEFAULT ((0)) FOR [IsDisabled]

GO

ALTER TABLE [dbo].[Permission] ADD DEFAULT ((0)) FOR [IsDisabled]

GO

ALTER TABLE [dbo].[Rank] ADD DEFAULT ((0)) FOR [IsDisabled]

GO

ALTER TABLE [dbo].[Specialization] ADD DEFAULT ((0)) FOR [IsDisabled]

GO

ALTER TABLE [dbo].[Team] ADD DEFAULT ((0)) FOR [IsDisabled]

GO

ALTER TABLE [dbo].[TeamType] ADD DEFAULT ((0)) FOR [IsDisabled]

GO

ALTER TABLE [dbo].[Employee] WITH CHECK ADD CONSTRAINT [FK\_dbo.Employee\_dbo.Barrack\_BarrackId] FOREIGN KEY([BarrackId])

REFERENCES [dbo].[Barrack] ([Id])

GO

ALTER TABLE [dbo].[Employee] CHECK CONSTRAINT [FK\_dbo.Employee\_dbo.Barrack\_BarrackId]

GO

ALTER TABLE [dbo].[Employee] WITH CHECK ADD CONSTRAINT [FK\_dbo.Employee\_dbo.Rank\_RankId] FOREIGN KEY([RankId])

REFERENCES [dbo].[Rank] ([Id])

GO

ALTER TABLE [dbo].[Employee] CHECK CONSTRAINT [FK\_dbo.Employee\_dbo.Rank\_RankId]

GO

ALTER TABLE [dbo].[Employee] WITH CHECK ADD CONSTRAINT [FK\_dbo.Employee\_dbo.Specialization\_SpecializationId] FOREIGN KEY([SpecializationId])

REFERENCES [dbo].[Specialization] ([Id])

GO

ALTER TABLE [dbo].[Employee] CHECK CONSTRAINT [FK\_dbo.Employee\_dbo.Specialization\_SpecializationId]

GO

ALTER TABLE [dbo].[Employee] WITH CHECK ADD CONSTRAINT [FK\_dbo.Employee\_dbo.Team\_TeamId] FOREIGN KEY([TeamId])

REFERENCES [dbo].[Team] ([Id])

GO

ALTER TABLE [dbo].[Employee] CHECK CONSTRAINT [FK\_dbo.Employee\_dbo.Team\_TeamId]

GO

ALTER TABLE [dbo].[Equipment] WITH CHECK ADD CONSTRAINT [FK\_dbo.Equipment\_dbo.EquipmentType\_EquipmentTypeId] FOREIGN KEY([EquipmentTypeId])

REFERENCES [dbo].[EquipmentType] ([Id])

ON DELETE CASCADE

GO

ALTER TABLE [dbo].[Equipment] CHECK CONSTRAINT [FK\_dbo.Equipment\_dbo.EquipmentType\_EquipmentTypeId]

GO

ALTER TABLE [dbo].[EquipmentSpecializations] WITH CHECK ADD CONSTRAINT [FK\_dbo.EquipmentSpecializations\_dbo.Equipment\_Equipment\_Id] FOREIGN KEY([Equipment\_Id])

REFERENCES [dbo].[Equipment] ([Id])

ON DELETE CASCADE

GO

ALTER TABLE [dbo].[EquipmentSpecializations] CHECK CONSTRAINT [FK\_dbo.EquipmentSpecializations\_dbo.Equipment\_Equipment\_Id]

GO

ALTER TABLE [dbo].[EquipmentSpecializations] WITH CHECK ADD CONSTRAINT [FK\_dbo.EquipmentSpecializations\_dbo.Specialization\_Specialization\_Id] FOREIGN KEY([Specialization\_Id])

REFERENCES [dbo].[Specialization] ([Id])

ON DELETE CASCADE

GO

ALTER TABLE [dbo].[EquipmentSpecializations] CHECK CONSTRAINT [FK\_dbo.EquipmentSpecializations\_dbo.Specialization\_Specialization\_Id]

GO

ALTER TABLE [dbo].[Mission] WITH CHECK ADD CONSTRAINT [FK\_dbo.Mission\_dbo.MissionType\_MissionTypeId] FOREIGN KEY([MissionTypeId])

REFERENCES [dbo].[MissionType] ([Id])

ON DELETE CASCADE

GO

ALTER TABLE [dbo].[Mission] CHECK CONSTRAINT [FK\_dbo.Mission\_dbo.MissionType\_MissionTypeId]

GO

ALTER TABLE [dbo].[Permission] WITH CHECK ADD CONSTRAINT [FK\_dbo.Permission\_dbo.Rank\_MinRankId] FOREIGN KEY([MinRankId])

REFERENCES [dbo].[Rank] ([Id])

ON DELETE CASCADE

GO

ALTER TABLE [dbo].[Permission] CHECK CONSTRAINT [FK\_dbo.Permission\_dbo.Rank\_MinRankId]

GO

ALTER TABLE [dbo].[SpecializationPermissions] WITH CHECK ADD CONSTRAINT [FK\_dbo.SpecializationPermissions\_dbo.Permission\_Permission\_Id] FOREIGN KEY([Permission\_Id])

REFERENCES [dbo].[Permission] ([Id])

ON DELETE CASCADE

GO

ALTER TABLE [dbo].[SpecializationPermissions] CHECK CONSTRAINT [FK\_dbo.SpecializationPermissions\_dbo.Permission\_Permission\_Id]

GO

ALTER TABLE [dbo].[SpecializationPermissions] WITH CHECK ADD CONSTRAINT [FK\_dbo.SpecializationPermissions\_dbo.Specialization\_Specialization\_Id] FOREIGN KEY([Specialization\_Id])

REFERENCES [dbo].[Specialization] ([Id])

ON DELETE CASCADE

GO

ALTER TABLE [dbo].[SpecializationPermissions] CHECK CONSTRAINT [FK\_dbo.SpecializationPermissions\_dbo.Specialization\_Specialization\_Id]

GO

ALTER TABLE [dbo].[Team] WITH CHECK ADD CONSTRAINT [FK\_dbo.Team\_dbo.Mission\_MissionId] FOREIGN KEY([MissionId])

REFERENCES [dbo].[Mission] ([Id])

GO

ALTER TABLE [dbo].[Team] CHECK CONSTRAINT [FK\_dbo.Team\_dbo.Mission\_MissionId]

GO

ALTER TABLE [dbo].[Team] WITH CHECK ADD CONSTRAINT [FK\_dbo.Team\_dbo.TeamType\_TeamTypeId] FOREIGN KEY([TeamTypeId])

REFERENCES [dbo].[TeamType] ([Id])

ON DELETE CASCADE

GO

ALTER TABLE [dbo].[Team] CHECK CONSTRAINT [FK\_dbo.Team\_dbo.TeamType\_TeamTypeId]

GO