

DDL

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CREATE TABLE [DB].[User] (
[ID_User]                INT                IDENTITY (1, 1) NOT NULL,
[Address]                 VARCHAR           (MAX) NULL,
[Phone]                   VARCHAR           (MAX) NULL,
[PassportNumber]          VARCHAR           (MAX) NULL,
[PassportId]              VARCHAR           (MAX) NULL,
[Authority]               VARCHAR           (MAX) NULL,
[IssueDate]               DATETIME          NOT NULL,
[ExpirationDate]          DATETIME          NOT NULL,
[Birthday]                DATETIME          NOT NULL,
[Sex]                     BIT               NOT NULL,
[User_Id]                 INT               NOT NULL,
CONSTRAINT [PK_DB.User] PRIMARY KEY CLUSTERED ([Id] ASC),
CONSTRAINT [FK_DB.Customer_DB.ID_User] FOREIGN KEY ([ID_User])
REFERENCES [DB].[User] ([Id]) );

CREATE TABLE [DB].[GrantRequests] (
[ID_GRequest]             INT IDENTITY      (1, 1) NOT NULL,
[IsOperatorApproved]      BIT              NULL,
[IsSecurityApproved]      BIT              NULL,
[SpecialistComments]      VARCHAR          (MAX) NULL,
[SecurityComments]        VARCHAR          (MAX) NULL,
[FondCommitteeComments]   VARCHAR          (MAX) NULL,
[CashieDepartmentComments] VARCHAR        (MAX) NULL,
[MonthDuration]           INT              NOT NULL,
[Description]             VARCHAR          (MAX) NULL,
[Name]                    CHAR             (50) NULL,
[Status]                  VARCHAR          (50) NULL,
[ID_User]                 INT              NOT NULL,
[ID_FondCashier]          INT              NOT NULL,
[ID_FondSpecialist]        INT              NOT NULL,
[ID_SecurityDepartment]   INT              NOT NULL,
[GrantSum]                INT              NOT NULL,
[GrantType]               INT              NOT NULL,
CONSTRAINT [PK_DB.GrantRequests] PRIMARY KEY CLUSTERED ([ID_GRequest] ASC),
CONSTRAINT [FK_dbo.GrantRequests_DB.ID_User] FOREIGN KEY ([ID_User]) REFERENCES
[DB].[User] ([Id_User]) ON DELETE CASCADE,
CONSTRAINT [FK_DB.GrantRequests_DB.Employees_ID_FondSpecialist] FOREIGN KEY
([ID_FondSpecialist]) REFERENCES [DB].[Employees] ([ID_GRequest]),
CONSTRAINT [FK_DB.GrantRequests_DB.Employees_ID_FondSpecialist] FOREIGN KEY
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([ID_FondSpecialist]) REFERENCES [DB].[Employees] ([ID_GRequest]),
CONSTRAINT [FK_DB.GrantRequests_DB.ID_FondCashier]
FOREIGN KEY ([ID_FondCashier]) REFERENCES [DB].[GrantType]
([ID_GRequest]),
CONSTRAINT [FK_DB.GrantRequests_DB.ID_FondCashier]
FOREIGN KEY ([ID_FondCashier]) REFERENCES [DB].[GrantType] ([ID_GRequest])
ON DELETE CASCADE,
CONSTRAINT [FK_DB.GrantRequests_DB.Employees_ID_SecurityDepartment]
FOREIGN KEY ([ID_SecurityDepartment]) REFERENCES [DB].[Employees]
([ID_GRequest]) );

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CREATE TABLE [DB].[PatentRequests] (
[ID_PRequest] INT IDENTITY (1, 1) NOT NULL,
[IsOperatorApproved] BIT NULL,
[IsSecurityApproved] BIT NULL,
[OperatorComments] VARCHAR (MAX) NULL,
[SecurityComments] VARCHAR (MAX) NULL,
[Description] VARCHAR (MAX) NULL,
[Name] CHAR (50) NULL,
[Status] VARCHAR (50) NULL,
[ID_User] INT NOT NULL,
[ID_Operator] INT NOT NULL,
[ID_SecurityDepartment] INT NOT NULL,
CONSTRAINT [PK_DB.PatentRequests] PRIMARY KEY CLUSTERED ([ID_PRequest] ASC),
CONSTRAINT [FK_dbo.PatentRequests_DB.ID_User] FOREIGN KEY ([ID_User])
REFERENCES [DB].[User] ([Id_User]) ON DELETE CASCADE,
CONSTRAINT [FK_DB.PatentRequests_DB.Employees_ID_Operator] FOREIGN KEY
([ID_Operator]) REFERENCES [DB].[Employees] ([ID_PRequest]),
CONSTRAINT [FK_DB.PatentRequests_DB.Employees_ID_Operator] FOREIGN KEY
([ID_Operator]) REFERENCES [DB].[Employees] ([ID_PRequest]),
CONSTRAINT [FK_DB.GrantRequests_DB.Employees_ID_SecurityDepartment]
FOREIGN KEY ([ID_SecurityDepartment]) REFERENCES [DB].[Employees]
([ID_GRequest]) );

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CREATE TABLE [DB].[Employees] (
[ID] INT IDENTITY (1, 1) NOT NULL,
[Rights] INT NOT NULL,
[ID_User] INT NOT NULL,
CONSTRAINT [PK_DB.Employees] PRIMARY KEY CLUSTERED ([ID] ASC),
CONSTRAINT [FK_DB.Employees_DB.Users_ID_User] FOREIGN KEY ([ID_User])
REFERENCES [DB].[User] ([ID]) );

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CREATE TABLE [DB].[FondCashier] (
[ID_FondCashier]          INT IDENTITY          (1, 1) NOT NULL,
[Timestamp]              DATETIME              NOT NULL,
[PaymentSum_Id]          INT                    NOT NULL,
[Employee_Id]            INT                    NOT NULL,
[CreditRequest]          VARCHAR (              50) NULL,
CONSTRAINT [PK_DB.FondCashier] PRIMARY KEY CLUSTERED ([ID_FondCashier]
ASC),
CONSTRAINT [FK_DB.FondCashier_DB.Grant_PaymentSum_Id]
FOREIGN KEY ([PaymentSum_Id]) REFERENCES [DB].[Grant] ([ID_FondCashier]),
CONSTRAINT [FK_DB.FondCashier_DB.Employees_Employee_Id]
FOREIGN KEY ([Employee_Id]) REFERENCES [DB].[Employees]
([ID_FondCashier]) ON DELETE CASCADE;

CREATE TABLE [DB].[Operator] (
[ID_Operator]            INT IDENTITY          (1, 1) NOT NULL,
[Timestamp]              DATETIME              NOT NULL,
[Employee_Id]            INT                    NOT NULL,
[ExpertResult]           VARCHAR               (50) NULL,
CONSTRAINT [PK_DB.Operator] PRIMARY KEY CLUSTERED ([ID_Operator] ASC)
FOREIGN KEY ([Employee_Id]) REFERENCES [DB].[Employees] ([ID_Operator]) ON
DELETE CASCADE;

CREATE TABLE [DB].[Grant] (
[Id]                     INT IDENTITY          (1, 1) NOT NULL,
[Value]                  VARCHAR               (10) NOT NULL,
[NAME]                   CHAR                  (40) NOT NULL,
CONSTRAINT [PK_DB.Grant] PRIMARY KEY CLUSTERED ([Id] ASC);

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