Для разработки приложения спроектирована БД KARAT\_TEST

Которая включает таблицы, существующей MES системы, которые необходимо корректировать и дополнительные таблицы, KARAT.

ТАБЛИЦЫ KARAT

CREATE TABLE [dbo].[Karat\_Labels](

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

[lbCode\_CHAR4] [char](4) NOT NULL,

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

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

[lbProducer] [nvarchar](50) NULL,

[lbType] [char](10) NOT NULL,

[lbOption] [varchar](50) NULL,

[lbModLocCode] [char](6) NULL,

[lbGroup] [char](10) NULL,

[lbDestinationCode] [char](4) NULL,

[lbFixedChar] [tinyint] NULL,

[lbWastedChar] [tinyint] NULL,

[lbName] [nvarchar](150) NULL,

[lbParent] [varchar](50) NULL,

[lbFact\_Place] [nvarchar](50) NULL,

[lbDate] [datetime] NULL,

[lbStatus] [char](16) NULL,

CONSTRAINT [PK\_Karat\_Labels] PRIMARY KEY CLUSTERED

(

[lbCode] ASC,

[lbMaterial] 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

ALTER TABLE [dbo].[Karat\_Labels] ADD CONSTRAINT [DF\_Karat\_Labels\_lbMaterial] DEFAULT (N'КОД') FOR [lbMaterial]

GO

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CREATE TABLE [dbo].[Karat\_Labels\_History](

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

[lbId] [int] NOT NULL,

[lbCode\_CHAR4] [char](4) NOT NULL,

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

[lbMaterial] [nvarchar](150) NULL,

[lbProducer] [nvarchar](50) NULL,

[lbType] [char](10) NOT NULL,

[lbOption] [varchar](50) NULL,

[lbModLocCode] [char](6) NULL,

[lbGroup] [char](10) NULL,

[lbDestinationCode] [char](4) NULL,

[lbFixedChar] [tinyint] NULL,

[lbWastedChar] [tinyint] NULL,

[lbName] [nvarchar](150) NULL,

[lbParent] [varchar](50) NULL,

[lbFact\_Place] [nvarchar](50) NULL,

[lbDate] [datetime] NULL,

[lbStatus] [char](16) NULL,

CONSTRAINT [PK\_Karat\_Labels\_History] PRIMARY KEY CLUSTERED

(

[lbhId] 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

ALTER TABLE [dbo].[Karat\_Labels\_History] ADD CONSTRAINT [DF\_Karat\_Labels\_History\_lbCode\_CHAR4] DEFAULT ((0)) FOR [lbCode\_CHAR4]

GO

ALTER TABLE [dbo].[Karat\_Labels\_History] ADD CONSTRAINT [DF\_Karat\_Labels\_History\_lbMaterial] DEFAULT (N'КОД') FOR [lbMaterial]

GO

ALTER TABLE [dbo].[Karat\_Labels\_History] WITH CHECK ADD CONSTRAINT [FK\_Karat\_Labels\_History\_Karat\_Labels] FOREIGN KEY([lbCode], [lbMaterial])

REFERENCES [dbo].[Karat\_Labels] ([lbCode], [lbMaterial])

GO

ALTER TABLE [dbo].[Karat\_Labels\_History] CHECK CONSTRAINT [FK\_Karat\_Labels\_History\_Karat\_Labels]

GO

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REATE TABLE [dbo].[Karat\_Labels\_Log](

[CommandId] [bigint] IDENTITY(1,1) NOT NULL,

[CommandString] [nvarchar](1024) NULL,

[CommandDate] [datetime] NULL

) ON [PRIMARY]

GO

ALTER TABLE [dbo].[Karat\_Labels\_Log] ADD CONSTRAINT [DF\_Karat\_Labels\_Command\_History\_CommandDate] DEFAULT (getdate()) FOR [CommandDate]

GO

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ТАБЛИЦЫ БД MES

CREATE TABLE [dbo].[E\_CS\_MFDUNIT\_CUSTOM](

[MFDUNIT\_ID] [nvarchar](150) NOT NULL,

[MFD\_REF\_1] [nvarchar](150) NULL,

[MFD\_REF\_2] [nvarchar](150) NULL,

[MFD\_REF\_3] [nvarchar](150) NULL,

[MFD\_REF\_4] [nvarchar](150) NULL,

[MFD\_REF\_5] [nvarchar](150) NULL,

[MFD\_REF\_6] [nvarchar](150) NULL,

[MFD\_REF\_7] [nvarchar](150) NULL,

[MFD\_REF\_8] [nvarchar](150) NULL,

[MFD\_REF\_9] [nvarchar](150) NULL,

[MFD\_REF\_10] [nvarchar](150) NULL,

[MFD\_REF\_11] [nvarchar](150) NULL,

[MFD\_REF\_12] [nvarchar](150) NULL,

[MFD\_REF\_13] [nvarchar](150) NULL,

[MFD\_REF\_14] [nvarchar](150) NULL,

[MFD\_REF\_15] [nvarchar](150) NULL,

[MFD\_REF\_16] [nvarchar](150) NULL,

[MFD\_REF\_17] [nvarchar](150) NULL,

[MFD\_REF\_18] [nvarchar](150) NULL,

[MFD\_REF\_19] [nvarchar](150) NULL,

[MFD\_REF\_20] [nvarchar](150) NULL,

[MFD\_REF\_21] [nvarchar](150) NULL,

[MFD\_REF\_22] [nvarchar](150) NULL,

[MFD\_REF\_23] [nvarchar](150) NULL,

[MFD\_REF\_24] [nvarchar](150) NULL,

[MFD\_REF\_25] [nvarchar](150) NULL,

[MFD\_REF\_26] [nvarchar](150) NULL,

[MFD\_REF\_27] [nvarchar](150) NULL,

[MFD\_REF\_28] [nvarchar](150) NULL,

[MFD\_REF\_29] [nvarchar](150) NULL,

[MFD\_REF\_30] [nvarchar](150) NULL,

[MFD\_REF\_31] [nvarchar](150) NULL,

[MFD\_REF\_32] [nvarchar](150) NULL,

[MFD\_REF\_33] [nvarchar](150) NULL,

[MFD\_REF\_34] [nvarchar](150) NULL,

[MFD\_REF\_35] [nvarchar](150) NULL,

[MFD\_REF\_36] [nvarchar](150) NULL,

[MFD\_REF\_37] [nvarchar](150) NULL,

[MFD\_REF\_38] [nvarchar](150) NULL,

[MFD\_REF\_39] [nvarchar](150) NULL,

[MFD\_REF\_40] [nvarchar](150) NULL,

[MFD\_REF\_41] [nvarchar](150) NULL,

[MFD\_REF\_42] [nvarchar](150) NULL,

[MFD\_REF\_43] [nvarchar](150) NULL,

[MFD\_REF\_44] [nvarchar](150) NULL,

[MFD\_REF\_45] [nvarchar](150) NULL,

[MFD\_REF\_46] [nvarchar](150) NULL,

[MFD\_REF\_47] [nvarchar](150) NULL,

[MFD\_REF\_48] [nvarchar](150) NULL,

[MFD\_REF\_49] [nvarchar](150) NULL,

[MFD\_REF\_50] [nvarchar](150) NULL,

[MFDUNIT\_CUSTOM\_IDENT] [bigint] NOT NULL,

[CUSTOM\_ATTR\_SEQ\_ID] [bigint] NULL,

CONSTRAINT [PK\_E\_CS\_MFDUNIT\_CUSTOM] PRIMARY KEY CLUSTERED

(

[MFDUNIT\_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]

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CREATE TABLE [dbo].[E\_CS\_OBJECT\_DETAILS](

[OBJECT\_TYPE] [nvarchar](150) NOT NULL,

[OBJECT\_ID] [nvarchar](150) NOT NULL,

[VERSION] [int] NOT NULL,

[DESCRIPTION] [nvarchar](4000) NULL,

[FROZEN] [nchar](1) NULL,

[COST\_OVERRIDE] [nchar](1) NULL,

[CHECKED\_OUT] [nchar](1) NULL,

[CHECKED\_OUT\_BY] [nvarchar](150) NULL,

[CREATED\_BY] [nvarchar](150) NULL,

[CREATED\_DATE] [datetime] NULL,

[UPDATED\_BY] [nvarchar](150) NULL,

[UPDATED\_DATE] [datetime] NULL,

[REUSABLE] [nvarchar](4000) NULL,

[ACTIVE] [nchar](1) NULL,

[OBSOLETE] [nchar](1) NULL,

[SEQ\_ID] [bigint] NULL,

[RECNO] [bigint] NULL,

[ALIAS] [nvarchar](150) NULL,

[DETAIL\_IDENT] [bigint] NOT NULL,

[ARCHIVE\_STATUS] [nchar](1) NULL,

[ATTR\_SEQ\_ID] [bigint] NULL,

[VAR\_SEQ\_ID] [bigint] NULL

) ON [PRIMARY]

GO

ALTER TABLE [dbo].[E\_CS\_OBJECT\_DETAILS] ADD CONSTRAINT [DF\_E\_CS\_OBJECT\_DETAILS\_OBJECT\_TYPE] DEFAULT (N'MFDUNIT') FOR [OBJECT\_TYPE]

GO

ALTER TABLE [dbo].[E\_CS\_OBJECT\_DETAILS] WITH CHECK ADD CONSTRAINT [FK\_E\_CS\_OBJECT\_DETAILS\_E\_CS\_MFDUNIT\_CUSTOM] FOREIGN KEY([OBJECT\_ID])

REFERENCES [dbo].[E\_CS\_MFDUNIT\_CUSTOM] ([MFDUNIT\_ID])

GO

ALTER TABLE [dbo].[E\_CS\_OBJECT\_DETAILS] CHECK CONSTRAINT [FK\_E\_CS\_OBJECT\_DETAILS\_E\_CS\_MFDUNIT\_CUSTOM]

GO

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CREATE TABLE [dbo].[E\_CS\_VARIABLE\_DETAILS](

[OBJECT\_TYPE] [nvarchar](150) NOT NULL,

[OBJECT\_ID] [nvarchar](150) NOT NULL,

[VERSION] [int] NOT NULL,

[VAR\_NAME] [nvarchar](150) NOT NULL,

[VAR\_VALUE] [nvarchar](2000) NULL,

[DESCRIPTION] [nvarchar](128) NULL,

[VAR\_IDENT] [bigint] NOT NULL,

CONSTRAINT [PK\_\_E\_CS\_VAR\_\_A4E36CE2742CB603] PRIMARY KEY NONCLUSTERED

(

[OBJECT\_TYPE] ASC,

[OBJECT\_ID] ASC,

[VERSION] ASC,

[VAR\_NAME] 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

ALTER TABLE [dbo].[E\_CS\_VARIABLE\_DETAILS] WITH CHECK ADD CONSTRAINT [FK\_E\_CS\_VARIABLE\_DETAILS\_E\_CS\_MFDUNIT\_CUSTOM] FOREIGN KEY([OBJECT\_ID])

REFERENCES [dbo].[E\_CS\_MFDUNIT\_CUSTOM] ([MFDUNIT\_ID])

GO

ALTER TABLE [dbo].[E\_CS\_VARIABLE\_DETAILS] CHECK CONSTRAINT [FK\_E\_CS\_VARIABLE\_DETAILS\_E\_CS\_MFDUNIT\_CUSTOM]

GO

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CREATE TABLE [dbo].[E\_CS\_MFDUNIT\_DETAILS](

[MFDUNIT\_ID] [nvarchar](150) NOT NULL,

[PRODUCT\_ID] [nvarchar](150) NULL,

[PRODUCT\_VERSION] [int] NULL,

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

[SUB\_QTY] [float] NULL,

[SUB\_MATERIAL] [nvarchar](150) NULL,

[WIP\_TYPE] [nvarchar](150) NOT NULL,

[STATE] [nvarchar](150) NULL,

[PRIORITY] [int] NULL,

[RELEASE\_DATE] [datetime] NOT NULL,

[DUE\_DATE] [datetime] NOT NULL,

[NOTIFY\_ON\_RELEASE] [nchar](1) NULL,

[NOTIFY\_ON\_DUE] [nchar](1) NULL,

[ANY\_EXCEPTION] [nchar](1) NULL,

[CURRENT\_POSITION] [nvarchar](2000) NULL,

[EXCEPTION\_POSITION] [nvarchar](2000) NULL,

[CURRENT\_STEP] [nvarchar](150) NULL,

[CURRENT\_STEP\_VERSION] [int] NULL,

[CURRENT\_OPERATION] [nvarchar](150) NULL,

[CURRENT\_OPERATION\_VERSION] [int] NULL,

[EXCEPTION\_STEP] [nvarchar](150) NULL,

[EXCEPTION\_STEP\_VERSION] [int] NULL,

[EXCEPTION\_OPERATION] [nvarchar](150) NULL,

[EXCEPTION\_OPERATION\_VERSION] [int] NULL,

[CHILD\_LOT\_COUNTER] [int] NULL,

[CURRENT\_MFG\_STAGE] [nvarchar](150) NULL,

[NEXT\_STAGE] [nvarchar](150) NULL,

[SEQ\_ID] [bigint] NOT NULL,

[TRANSITION\_RECNO] [bigint] NULL,

[NEXT\_STEP] [nvarchar](150) NULL,

[NEXT\_STEP\_VERSION] [int] NULL,

[PARENT] [nvarchar](150) NULL,

[SCRAP\_COUNT] [float] NULL,

[IDENT] [nchar](1) NULL,

[FACILITY\_TYPE] [nvarchar](150) NULL,

[FACILITY] [nvarchar](150) NULL,

[DEVICE\_ID] [nvarchar](150) NULL,

[DEVICE\_RUN\_ID] [nvarchar](150) NULL,

[REF\_1] [nvarchar](150) NULL,

[REF\_2] [nvarchar](150) NULL,

[REF\_3] [nvarchar](150) NULL,

[RECIPE\_ID] [nvarchar](150) NULL,

[RECIPE\_VERSION] [int] NULL,

[BATCH] [nchar](1) NOT NULL,

[STEP\_SEQ\_ID] [bigint] NULL,

[EXCEPTION\_STEP\_SEQ\_ID] [bigint] NULL,

[EXCEPTION\_MFG\_STAGE] [nvarchar](150) NULL,

[REUSABLE] [nvarchar](150) NULL,

[CASSETTE\_ID] [nvarchar](150) NULL,

[GRADE] [nvarchar](150) NULL,

[MEASUREMENT\_TYPE] [nvarchar](150) NULL,

[SPLIT\_CHILD\_COUNTER] [float] NOT NULL,

[STATETRANSITION] [datetime] NULL,

[UOM] [nvarchar](150) NULL,

[DYNAMIC\_MFDUNIT] [nchar](1) NULL,

[CUSTOM\_ATTR\_SEQ\_ID] [bigint] NULL,

[NEXT\_OPERATION] [nvarchar](150) NULL,

[NEXT\_OPERATION\_VERSION] [int] NULL,

[PARENT\_TEMP\_BATCH] [nvarchar](150) NULL,

[TEMP\_BATCH] [nchar](1) NULL,

[NON\_TRACKABLE] [nchar](1) NULL,

[SERIAL\_NO] [nvarchar](150) NULL,

[SPLIT\_COUNTER] [int] NULL,

[AUTO\_ASSIGNED] [nchar](1) NOT NULL,

[CRITICAL\_RATIO] [float] NULL,

[RESIDENCY\_TIME] [float] NULL,

[EXPECTED\_COMPLETION\_DATE] [datetime] NULL,

[BATCH\_SEQ\_ID] [bigint] NULL,

[CLASS\_VALUE] [nvarchar](150) NULL,

[CUSTOM\_REF1] [nvarchar](150) NULL,

[CUSTOM\_REF2] [nvarchar](150) NULL,

[CUSTOM\_REF3] [nvarchar](150) NULL,

[CUSTOM\_REF4] [nvarchar](150) NULL,

[CUSTOM\_REF5] [nvarchar](150) NULL,

[IN\_SWR] [nchar](1) NOT NULL,

[SWR\_ID] [nvarchar](150) NULL,

[TEST\_W] [nchar](1) NULL,

[HAS\_ACTIVE\_TIMER] [nchar](1) NOT NULL,

[COMPONENT\_SEQ\_ID] [bigint] NULL,

[MOVE\_DATE] [datetime] NULL,

[PHYSICAL\_LOCATION] [nvarchar](150) NULL,

[EARLIEST\_TIMER\_EXPIRATION] [float] NULL,

[LAST\_TIMER\_EXPIRATION] [float] NULL,

[STEP\_ENTRY\_TIME] [datetime] NULL,

[SHIPPABLE] [nchar](1) NULL,

[SIM\_LOT\_PRIORITY] [int] NULL,

[MT\_TO\_SHIP] [float] NULL,

[MT\_TO\_BTLN\_STEP] [float] NULL,

[BTLN\_CRITICAL\_RATIO] [float] NULL,

[LOT\_RANK\_VALUE] [float] NULL,

[WIP\_DELTA] [float] NULL,

[CST\_FLOW\_FACTOR] [float] NULL,

[IPQ] [float] NULL,

[ACTUAL\_MOVES] [float] NULL,

[CURRENT\_WIP] [int] NULL,

[FAB\_COMMIT\_DATE] [datetime] NULL,

[AWAITING\_MERGE] [char](1) NULL,

[PP\_POSITION] [nvarchar](2000) NULL,

[PP\_STEP] [nvarchar](150) NULL,

[PP\_STEP\_VERSION] [int] NULL,

[PP\_OPERATION] [nvarchar](150) NULL,

[PP\_OPERATION\_VERSION] [int] NULL,

[PP\_STEP\_SEQ\_ID] [bigint] NULL,

[WAITING] [nchar](1) NULL,

CONSTRAINT [PK\_E\_CS\_MFDUNIT\_DETAILS\_1] PRIMARY KEY CLUSTERED

(

[MFDUNIT\_ID] ASC,

[MATERIAL] 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

ALTER TABLE [dbo].[E\_CS\_MFDUNIT\_DETAILS] WITH CHECK ADD CONSTRAINT [FK\_E\_CS\_MFDUNIT\_DETAILS\_E\_CS\_MFDUNIT\_CUSTOM] FOREIGN KEY([MFDUNIT\_ID])

REFERENCES [dbo].[E\_CS\_MFDUNIT\_CUSTOM] ([MFDUNIT\_ID])

GO

ALTER TABLE [dbo].[E\_CS\_MFDUNIT\_DETAILS] CHECK CONSTRAINT [FK\_E\_CS\_MFDUNIT\_DETAILS\_E\_CS\_MFDUNIT\_CUSTOM]

GO

ALTER TABLE [dbo].[E\_CS\_MFDUNIT\_DETAILS] WITH CHECK ADD CONSTRAINT [FK\_E\_CS\_MFDUNIT\_DETAILS\_Karat\_Labels] FOREIGN KEY([MFDUNIT\_ID], [MATERIAL])

REFERENCES [dbo].[Karat\_Labels] ([lbCode], [lbMaterial])

GO

ALTER TABLE [dbo].[E\_CS\_MFDUNIT\_DETAILS] CHECK CONSTRAINT [FK\_E\_CS\_MFDUNIT\_DETAILS\_Karat\_Labels]

GO