

U = Update, C = Cascade, D = Delete, NA = No Action.

Wanneer een Student (Apprentice) verwijderd word moeten alle inschrijvingen, certificaten en voortgang van inschrijvingen ook verwijderd worden, dit is de reden dat de foreign keys Update en Delete Cascade zijn. In alle andere gevallen hebben we Update Cascade en Delete No Action gedaan aangezien deze gegevens in andere tabellen niet NULL mogen zijn en we niet willen dat de rest van de gegevens verwijderd worden.

Contactperson (Email), Apprentice (Emailadress), Course (Name) en Webcast (ContentItemID) zijn UNIQUE omdat hier niet meerdere keren dezelfde gegevens ingevuld kunnen worden.

ID in elke tabel is de primary key en surrogate key met Identity (1,1)

De tabel Adress en ContactPerson er transitieve afhankelijkheden in de tabel zaten. City en Country waren deels afhankelijk van Adress en ContactPersonName was deels afhankelijk van ContactPersonEmailadress.

USE [master]

GO

/\*\*\*\*\*\* Object: Database [CodecademyV2] Script Date: 22-12-2022 11:39:07 \*\*\*\*\*\*/

CREATE DATABASE [CodecademyV2]

CONTAINMENT = NONE

ON PRIMARY

( NAME = N'CodecademyV2', FILENAME = N'C:\Program Files\Microsoft SQL Server\MSSQL15.MSSQLDEV2019\MSSQL\DATA\CodecademyV2.mdf' , SIZE = 8192KB , MAXSIZE = UNLIMITED, FILEGROWTH = 65536KB )

LOG ON

( NAME = N'CodecademyV2\_log', FILENAME = N'C:\Program Files\Microsoft SQL Server\MSSQL15.MSSQLDEV2019\MSSQL\DATA\CodecademyV2\_log.ldf' , SIZE = 8192KB , MAXSIZE = 2048GB , FILEGROWTH = 65536KB )

WITH CATALOG\_COLLATION = DATABASE\_DEFAULT

GO

ALTER DATABASE [CodecademyV2] SET COMPATIBILITY\_LEVEL = 150

GO

IF (1 = FULLTEXTSERVICEPROPERTY('IsFullTextInstalled'))

begin

EXEC [CodecademyV2].[dbo].[sp\_fulltext\_database] @action = 'enable'

end

GO

ALTER DATABASE [CodecademyV2] SET ANSI\_NULL\_DEFAULT OFF

GO

ALTER DATABASE [CodecademyV2] SET ANSI\_NULLS OFF

GO

ALTER DATABASE [CodecademyV2] SET ANSI\_PADDING OFF

GO

ALTER DATABASE [CodecademyV2] SET ANSI\_WARNINGS OFF

GO

ALTER DATABASE [CodecademyV2] SET ARITHABORT OFF

GO

ALTER DATABASE [CodecademyV2] SET AUTO\_CLOSE OFF

GO

ALTER DATABASE [CodecademyV2] SET AUTO\_SHRINK OFF

GO

ALTER DATABASE [CodecademyV2] SET AUTO\_UPDATE\_STATISTICS ON

GO

ALTER DATABASE [CodecademyV2] SET CURSOR\_CLOSE\_ON\_COMMIT OFF

GO

ALTER DATABASE [CodecademyV2] SET CURSOR\_DEFAULT GLOBAL

GO

ALTER DATABASE [CodecademyV2] SET CONCAT\_NULL\_YIELDS\_NULL OFF

GO

ALTER DATABASE [CodecademyV2] SET NUMERIC\_ROUNDABORT OFF

GO

ALTER DATABASE [CodecademyV2] SET QUOTED\_IDENTIFIER OFF

GO

ALTER DATABASE [CodecademyV2] SET RECURSIVE\_TRIGGERS OFF

GO

ALTER DATABASE [CodecademyV2] SET DISABLE\_BROKER

GO

ALTER DATABASE [CodecademyV2] SET AUTO\_UPDATE\_STATISTICS\_ASYNC OFF

GO

ALTER DATABASE [CodecademyV2] SET DATE\_CORRELATION\_OPTIMIZATION OFF

GO

ALTER DATABASE [CodecademyV2] SET TRUSTWORTHY OFF

GO

ALTER DATABASE [CodecademyV2] SET ALLOW\_SNAPSHOT\_ISOLATION OFF

GO

ALTER DATABASE [CodecademyV2] SET PARAMETERIZATION SIMPLE

GO

ALTER DATABASE [CodecademyV2] SET READ\_COMMITTED\_SNAPSHOT OFF

GO

ALTER DATABASE [CodecademyV2] SET HONOR\_BROKER\_PRIORITY OFF

GO

ALTER DATABASE [CodecademyV2] SET RECOVERY FULL

GO

ALTER DATABASE [CodecademyV2] SET MULTI\_USER

GO

ALTER DATABASE [CodecademyV2] SET PAGE\_VERIFY CHECKSUM

GO

ALTER DATABASE [CodecademyV2] SET DB\_CHAINING OFF

GO

ALTER DATABASE [CodecademyV2] SET FILESTREAM( NON\_TRANSACTED\_ACCESS = OFF )

GO

ALTER DATABASE [CodecademyV2] SET TARGET\_RECOVERY\_TIME = 60 SECONDS

GO

ALTER DATABASE [CodecademyV2] SET DELAYED\_DURABILITY = DISABLED

GO

ALTER DATABASE [CodecademyV2] SET ACCELERATED\_DATABASE\_RECOVERY = OFF

GO

EXEC sys.sp\_db\_vardecimal\_storage\_format N'CodecademyV2', N'ON'

GO

ALTER DATABASE [CodecademyV2] SET QUERY\_STORE = OFF

GO

USE [CodecademyV2]

GO

/\*\*\*\*\*\* Object: Table [dbo].[Adress] Script Date: 22-12-2022 11:39:07 \*\*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE TABLE [dbo].[Adress](

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

[Adress] [nvarchar](50) NOT NULL,

[City] [nvarchar](50) NOT NULL,

[Country] [nvarchar](50) NOT NULL,

CONSTRAINT [PK\_Adress] PRIMARY KEY CLUSTERED

(

[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].[Apprentice] Script Date: 22-12-2022 11:39:07 \*\*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE TABLE [dbo].[Apprentice](

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

[Emailadress] [nvarchar](50) NOT NULL,

[Name] [nvarchar](50) NOT NULL,

[DateOfBirth] [date] NOT NULL,

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

[AdressID] [int] NOT NULL,

CONSTRAINT [PK\_Apprentice] PRIMARY KEY CLUSTERED

(

[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].[Certificate] Script Date: 22-12-2022 11:39:07 \*\*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE TABLE [dbo].[Certificate](

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

[Review] [tinyint] NOT NULL,

[NameStaffMember] [nchar](10) NOT NULL,

[RegistrationID] [int] NOT NULL,

CONSTRAINT [PK\_Certificate] PRIMARY KEY CLUSTERED

(

[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].[ContactPerson] Script Date: 22-12-2022 11:39:07 \*\*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE TABLE [dbo].[ContactPerson](

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

[Name] [nvarchar](50) NOT NULL,

[Emailadress] [nvarchar](50) NOT NULL,

CONSTRAINT [PK\_ContactPerson] PRIMARY KEY CLUSTERED

(

[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].[ContentItem] Script Date: 22-12-2022 11:39:07 \*\*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE TABLE [dbo].[ContentItem](

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

[DateOfPublication] [date] NOT NULL,

[Status] [nchar](10) NOT NULL,

CONSTRAINT [PK\_ContentItem] PRIMARY KEY CLUSTERED

(

[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].[Course] Script Date: 22-12-2022 11:39:07 \*\*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE TABLE [dbo].[Course](

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

[Name] [nvarchar](50) NOT NULL,

[Subject] [nvarchar](50) NOT NULL,

[IntroductionText] [nvarchar](200) NULL,

[Level] [int] NOT NULL,

CONSTRAINT [PK\_Course] PRIMARY KEY CLUSTERED

(

[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].[Module] Script Date: 22-12-2022 11:39:07 \*\*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE TABLE [dbo].[Module](

[ContentItemID] [int] NOT NULL,

[Title] [nvarchar](50) NOT NULL,

[Version] [int] NOT NULL,

[Description] [nvarchar](200) NULL,

[Serialnumber] [int] NOT NULL,

[CourseID] [int] NOT NULL,

[ContactPersonID] [int] NOT NULL,

CONSTRAINT [PK\_Module] PRIMARY KEY CLUSTERED

(

[ContentItemID] 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].[Registration] Script Date: 22-12-2022 11:39:07 \*\*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE TABLE [dbo].[Registration](

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

[Date] [nchar](10) NOT NULL,

[CourseID] [int] NOT NULL,

[ApprenticeID] [int] NOT NULL,

CONSTRAINT [PK\_Registration] PRIMARY KEY CLUSTERED

(

[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].[Viewed] Script Date: 22-12-2022 11:39:07 \*\*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE TABLE [dbo].[Viewed](

[ContentItemID] [int] NOT NULL,

[ApprenticeID] [int] NOT NULL,

[PercentageProgress] [tinyint] NOT NULL,

CONSTRAINT [PK\_Viewed] PRIMARY KEY CLUSTERED

(

[ContentItemID] ASC,

[ApprenticeID] 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].[Webcast] Script Date: 22-12-2022 11:39:07 \*\*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE TABLE [dbo].[Webcast](

[ContentItemID] [int] NOT NULL,

[Title] [nvarchar](50) NOT NULL,

[Duration] [nvarchar](10) NOT NULL,

[DateOfPublication] [date] NOT NULL,

[Url] [nvarchar](50) NOT NULL,

[Description] [nvarchar](200) NULL,

[Organisation] [nvarchar](50) NOT NULL,

[NameOfSpreaker] [nvarchar](50) NOT NULL,

CONSTRAINT [PK\_Webcast] PRIMARY KEY CLUSTERED

(

[Url] 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].[Viewed] ADD CONSTRAINT [DF\_Viewed\_PercentageProgress] DEFAULT ((0)) FOR [PercentageProgress]

GO

ALTER TABLE [dbo].[Apprentice] WITH CHECK ADD CONSTRAINT [FK\_Apprentice\_Adress\_U=C\_D=NA] FOREIGN KEY([AdressID])

REFERENCES [dbo].[Adress] ([ID])

ON UPDATE CASCADE

GO

ALTER TABLE [dbo].[Apprentice] CHECK CONSTRAINT [FK\_Apprentice\_Adress\_U=C\_D=NA]

GO

ALTER TABLE [dbo].[Certificate] WITH CHECK ADD CONSTRAINT [FK\_Certificate\_Registration\_U=C\_D=C] FOREIGN KEY([RegistrationID])

REFERENCES [dbo].[Registration] ([ID])

GO

ALTER TABLE [dbo].[Certificate] CHECK CONSTRAINT [FK\_Certificate\_Registration\_U=C\_D=C]

GO

ALTER TABLE [dbo].[ContentItem] WITH CHECK ADD CONSTRAINT [FK\_ContentItem\_Module\_U=C\_D=NA] FOREIGN KEY([ID])

REFERENCES [dbo].[Module] ([ContentItemID])

GO

ALTER TABLE [dbo].[ContentItem] CHECK CONSTRAINT [FK\_ContentItem\_Module\_U=C\_D=NA]

GO

ALTER TABLE [dbo].[Module] WITH CHECK ADD CONSTRAINT [FK\_Module\_ContactPerson\_U=C\_D=NA] FOREIGN KEY([ContactPersonID])

REFERENCES [dbo].[ContactPerson] ([ID])

ON UPDATE CASCADE

GO

ALTER TABLE [dbo].[Module] CHECK CONSTRAINT [FK\_Module\_ContactPerson\_U=C\_D=NA]

GO

ALTER TABLE [dbo].[Module] WITH CHECK ADD CONSTRAINT [FK\_Module\_Course\_U=C\_D=NA] FOREIGN KEY([CourseID])

REFERENCES [dbo].[Course] ([ID])

ON UPDATE CASCADE

GO

ALTER TABLE [dbo].[Module] CHECK CONSTRAINT [FK\_Module\_Course\_U=C\_D=NA]

GO

ALTER TABLE [dbo].[Registration] WITH CHECK ADD CONSTRAINT [FK\_Registration\_Apprentice\_U=C\_D=C] FOREIGN KEY([ApprenticeID])

REFERENCES [dbo].[Apprentice] ([ID])

ON UPDATE CASCADE

ON DELETE CASCADE

GO

ALTER TABLE [dbo].[Registration] CHECK CONSTRAINT [FK\_Registration\_Apprentice\_U=C\_D=C]

GO

ALTER TABLE [dbo].[Registration] WITH CHECK ADD CONSTRAINT [FK\_Registration\_Course\_U=C\_D=NA] FOREIGN KEY([CourseID])

REFERENCES [dbo].[Course] ([ID])

ON UPDATE CASCADE

GO

ALTER TABLE [dbo].[Registration] CHECK CONSTRAINT [FK\_Registration\_Course\_U=C\_D=NA]

GO

ALTER TABLE [dbo].[Viewed] WITH CHECK ADD CONSTRAINT [FK\_Viewed\_Apprentice\_U=C\_D=C] FOREIGN KEY([ApprenticeID])

REFERENCES [dbo].[Apprentice] ([ID])

ON UPDATE CASCADE

GO

ALTER TABLE [dbo].[Viewed] CHECK CONSTRAINT [FK\_Viewed\_Apprentice\_U=C\_D=C]

GO

ALTER TABLE [dbo].[Viewed] WITH CHECK ADD CONSTRAINT [FK\_Viewed\_ContentItem\_U=C\_D=NA] FOREIGN KEY([ContentItemID])

REFERENCES [dbo].[ContentItem] ([ID])

ON UPDATE CASCADE

GO

ALTER TABLE [dbo].[Viewed] CHECK CONSTRAINT [FK\_Viewed\_ContentItem\_U=C\_D=NA]

GO

ALTER TABLE [dbo].[Webcast] WITH CHECK ADD CONSTRAINT [FK\_Webcast\_ContentItem\_U=C\_D=NA] FOREIGN KEY([ContentItemID])

REFERENCES [dbo].[ContentItem] ([ID])

ON UPDATE CASCADE

GO

ALTER TABLE [dbo].[Webcast] CHECK CONSTRAINT [FK\_Webcast\_ContentItem\_U=C\_D=NA]

GO

USE [master]

GO

ALTER DATABASE [CodecademyV2] SET READ\_WRITE

GO