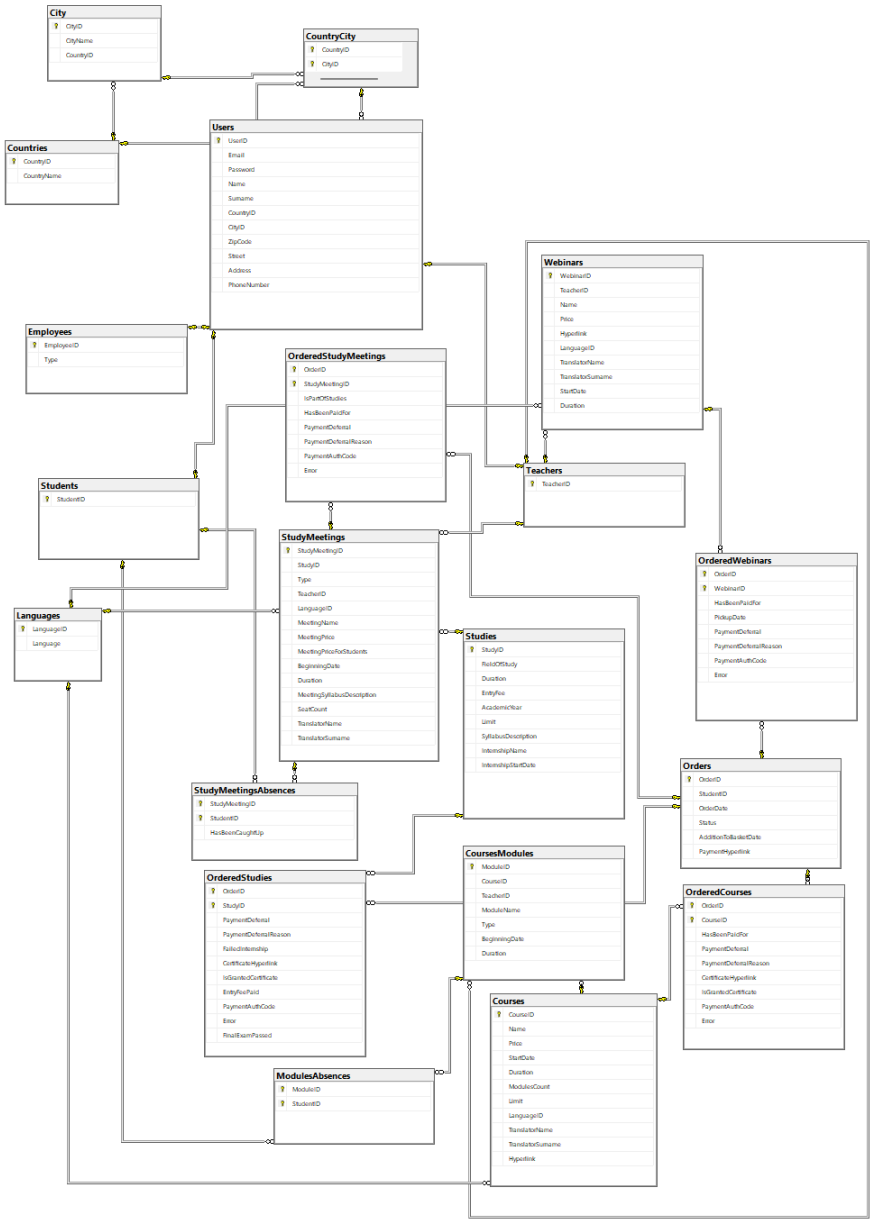
pbd_<14>_raport4 | Piotr Albiński, Adam Konior, Mateusz Maciaszczyk

Identyfikacja użytkowników:

- pracownik biura obsługi dydaktyki:
  - wprowadzenie informacji o użytkownikach, pracownikach dodawanie i usuwanie użytkowników z systemu,
  - zarządzanie danymi np. usuwanie dostępu do webinarów, ustalenia cen produktów,
  - wprowadzanie harmonogramów (również ich zmiana),
  - przypisywanie kursom/webinarium/studium wykładowców/nauczycieli,
  - odroczenie płatności (decyzją Dyrektora Szkoły),
  - generowanie raportów:
    - finansowych - zestawienie przychodów z różnych form nauczania,
    - listy dłużników,
    - ogólny raport dotyczący liczby zapisanych osób na przyszłe wydarzenia,
    - lista obecności,
    - lista osób z kolizjami w terminach zajęć,
    - bilokacji wszystkich nauczycieli, uczniów
  - dodawanie produktów do sklepu(całościowych webinarów/kursów/studium),
  - usuwanie produktów ze sklepu,
  - wprowadzanie sylabusa do systemu
  - generowanie listy kursantów, którzy ukończyli kurs,
  - Funkcje do naprawy błędów/dokonywania zmian:
    - modyfikowanie listy uczestników danego kursu/studium/webinaru(np. dodawanie uczestników po rozpoczęciu webinaru, usuwanie uczestników, którzy zrezygnowali),
- Dyrektor:
  - decyduje o odroczeniu płatności
  - weryfikuje ukończenie kursów/studium i podejmuje decyzję o wysłaniu dyplomów (np. generowanie listy absolwentów),
  - generowanie listy kursantów, którzy ukończyli kurs,
- klient firmy/ student:
  - zakładanie konta w systemie,
  - logowanie do konta w systemie,
  - wyświetlanie i zarządzanie profilem,
  - dodawanie produktów do koszyka,
  - opłacanie wybranych produktów (samą płatność stanowi zewnętrzny system, którego nie mamy implementować),
  - generowanie własnych kolizji w planie zajęć,
  - sprawdzenie własnego długu,
  - dostęp do informacji o poszczególnych webinarach:
    - język wykładu,
    - dane prowadzącego,
  - możliwość zapisania się do odrobienia zajęć,
  - weryfikacja postępu w kursie (obecność, zaliczenie obejrzenia materiału),
  - generowanie raportu własnej frekwencji,
  - ogólny raport dotyczący liczby zapisanych osób na przyszłe wydarzenia,
  - ogólny raport dotyczący frekwencji
  - raport bilokacji własnych zajęć
- nauczyciel
  - udostępnianie webinarów(dodawanie do bazy rekordów z linkami),
  - generowanie raportów:
    - lista obecności (na zajęciach, prowadzonych przez siebie),
    - bilokacji (raport bilokacji własnych uczniów),
    - dot. frekwencji (raporty frekwencji własnych zajęć),
    - dot. osób zapisanych na przyszłe wydarzenia (raporty na temat osób zapisanych na zajęcia prowadzone przez siebie),
  - wprowadzenia frekwencji do systemu,
- system:
  - generowanie linku do płatności,
  - informacja zwrotna o statusie transakcji i dodanie dostępu do produktu do konta,
  - automatycznie sprawdzenie obecności,
  - weryfikacja obejrzenia materiału,
  - weryfikowanie warunków ukończenia kursów/studium,
  - ustalenie limitu miejsc,
  - weryfikowanie przekroczenia limitu miejsc: kursy hybrydowe i stacjonarne.



Skrypty tworzenia tabel:

Tabela City:

- lista wszystkich miast

```
CREATE TABLE [dbo].[City](
    [CityID] [int] IDENTITY(1,1) NOT NULL,
    [CityName] [nvarchar](50) NOT NULL,
    [CountryID] [int] NOT NULL,
 CONSTRAINT [PK_City] PRIMARY KEY CLUSTERED
(
    [CityID] 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].[City]  WITH CHECK ADD  CONSTRAINT [FK_City_Countries] FOREIGN KEY([CountryID])
REFERENCES [dbo].[Countries] ([CountryID])
GO

ALTER TABLE [dbo].[City] CHECK CONSTRAINT [FK_City_Countries]
GO
```

Tabela Countries:

- lista wszystkich państw

```
CREATE TABLE [dbo].[Countries](
    [CountryID] [int] IDENTITY(1,1) NOT NULL,
    [CountryName] [nchar](50) NOT NULL,
 CONSTRAINT [PK_Countries] PRIMARY KEY CLUSTERED
(
    [CountryID] 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].[Countries]  WITH CHECK ADD  CONSTRAINT [NotEmptyCountryName] CHECK  (([CountryName]<>''))
GO

ALTER TABLE [dbo].[Countries] CHECK CONSTRAINT [NotEmptyCountryName]
GO
```

Tabela CountryCity:

- tabela która łączy kraje z miastami, używamy do walidacji czy dane miasto znajduje się w danym państwie

```
CREATE TABLE [dbo].[CountryCity](
    [CountryID] [int] NOT NULL,
    [CityID] [int] NOT NULL,
 CONSTRAINT [PK_CountryCity] PRIMARY KEY CLUSTERED
(
    [CountryID] ASC,
    [CityID] 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].[CountryCity]  WITH CHECK ADD  CONSTRAINT [FK_CountryCity_City] FOREIGN KEY([CityID])
REFERENCES [dbo].[City] ([CityID])
GO

ALTER TABLE [dbo].[CountryCity] CHECK CONSTRAINT [FK_CountryCity_City]
GO

ALTER TABLE [dbo].[CountryCity]  WITH CHECK ADD  CONSTRAINT [FK_CountryCity_Countries] FOREIGN KEY([CountryID])
REFERENCES [dbo].[Countries] ([CountryID])
GO

ALTER TABLE [dbo].[CountryCity] CHECK CONSTRAINT [FK_CountryCity_Countries]
GO
```

Tabela Courses:

- tabela zawiera informacje na temat wszystkich kursów
- duration: czas trwania kursu
- modulesCount: liczba modułów, z których składa się kurs
- limit: ile osób może maksymalnie uczestniczyć w kursie

```
CREATE TABLE [dbo].[Courses](
    [CourseID] [int] IDENTITY(1,1) NOT NULL,
    [Name] [nvarchar](50) NOT NULL,
    [Price] [money] NOT NULL,
    [StartDate] [datetime] NOT NULL,
    [Duration] [int] NOT NULL,
    [ModulesCount] [int] NOT NULL,
    [Limit] [int] NOT NULL,
    [LanguageID] [int] NOT NULL,
    [TranslatorName] [nvarchar](50) NULL,
    [TranslatorSurname] [nvarchar](50) NULL,
    [Hyperlink] [nvarchar](100) NOT NULL,
 CONSTRAINT [PK_Courses] PRIMARY KEY CLUSTERED
(
    [CourseID] 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].[Courses]  WITH CHECK ADD  CONSTRAINT [FK_Courses_Languages] FOREIGN KEY([LanguageID])
REFERENCES [dbo].[Languages] ([LanguageID])
GO

ALTER TABLE [dbo].[Courses] CHECK CONSTRAINT [FK_Courses_Languages]
GO

ALTER TABLE [dbo].[Courses]  WITH CHECK ADD  CONSTRAINT [C_TranslatorName] CHECK  (([TranslatorName]<>'' AND [TranslatorSurname]<>''))
GO

ALTER TABLE [dbo].[Courses] CHECK CONSTRAINT [C_TranslatorName]
GO

ALTER TABLE [dbo].[Courses]  WITH CHECK ADD  CONSTRAINT [Duration] CHECK  (([Duration]>(0)))
GO

ALTER TABLE [dbo].[Courses] CHECK CONSTRAINT [Duration]
GO

ALTER TABLE [dbo].[Courses]  WITH CHECK ADD  CONSTRAINT [Limit] CHECK  (([Limit]>(0)))
GO

ALTER TABLE [dbo].[Courses] CHECK CONSTRAINT [Limit]
GO

ALTER TABLE [dbo].[Courses]  WITH CHECK ADD  CONSTRAINT [ModulesCount] CHECK  (([ModulesCount]>(0)))
GO

ALTER TABLE [dbo].[Courses] CHECK CONSTRAINT [ModulesCount]
GO

ALTER TABLE [dbo].[Courses]  WITH CHECK ADD  CONSTRAINT [Name] CHECK  (([Name]<>''))
GO

ALTER TABLE [dbo].[Courses] CHECK CONSTRAINT [Name]
GO

ALTER TABLE [dbo].[Courses]  WITH CHECK ADD  CONSTRAINT [Price] CHECK  (([Price]>(0)))
GO

ALTER TABLE [dbo].[Courses] CHECK CONSTRAINT [Price]
GO
```

Tabela CoursesModules:

- tabela zawiera informacje na temat modułów, z których składa się kurs(courseID identyfikator kursu, w którym zawiera się dany moduł)
- type: typ modułu np. stacjonarne, online...
- BeginningDate, EndingDate: data rozpoczęcia i zakończenia kursu

```
CREATE TABLE [dbo].[CoursesModules](
    [ModuleID] [int] IDENTITY(1,1) NOT NULL,
    [CourseID] [int] NOT NULL,
    [TeacherID] [int] NOT NULL,
    [ModuleName] [nvarchar](50) NOT NULL,
    [Type] [nvarchar](50) NOT NULL,
    [BeginningDate] [datetime] NOT NULL,
    [Duration] [time](7) NOT NULL,
 CONSTRAINT [PK_CoursesModules] PRIMARY KEY CLUSTERED
(
    [ModuleID] 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].[CoursesModules]  WITH CHECK ADD  CONSTRAINT [FK_CoursesModules_Courses] FOREIGN KEY([CourseID])
REFERENCES [dbo].[Courses] ([CourseID])
GO

ALTER TABLE [dbo].[CoursesModules] CHECK CONSTRAINT [FK_CoursesModules_Courses]
GO

ALTER TABLE [dbo].[CoursesModules]  WITH CHECK ADD  CONSTRAINT [FK_CoursesModules_Teachers] FOREIGN KEY([TeacherID])
REFERENCES [dbo].[Teachers] ([TeacherID])
GO

ALTER TABLE [dbo].[CoursesModules] CHECK CONSTRAINT [FK_CoursesModules_Teachers]
GO

ALTER TABLE [dbo].[CoursesModules]  WITH CHECK ADD  CONSTRAINT [Type] CHECK  (([Type]='Online Asynchroniczny' OR [Type]='Online Synchroniczny' OR [Type]='Stacjonarny' OR [Type]='Hybrydowy'))
GO

ALTER TABLE [dbo].[CoursesModules] CHECK CONSTRAINT [Type]
GO
```

Tabela Employees:

- tabela zawiera osoby, które są pracownikami
- type określa czy jest to pracownik biura czy dyrektor

```
CREATE TABLE [dbo].[Employees](
    [EmployeeID] [int] NOT NULL,
    [Type] [nvarchar](50) NOT NULL,
 CONSTRAINT [PK_Employees] PRIMARY KEY CLUSTERED
(
    [EmployeeID] 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].[Employees]  WITH CHECK ADD  CONSTRAINT [FK_Employees_Users] FOREIGN KEY([EmployeeID])
REFERENCES [dbo].[Users] ([UserID])
GO

ALTER TABLE [dbo].[Employees] CHECK CONSTRAINT [FK_Employees_Users]
GO

ALTER TABLE [dbo].[Employees]  WITH CHECK ADD  CONSTRAINT [E_Type] CHECK  (([Type]='Secretary' OR [Type]='Headmaster'))
GO

ALTER TABLE [dbo].[Employees] CHECK CONSTRAINT [E_Type]
GO
```

Tabela Languages

- słownik języków

```
CREATE TABLE [dbo].[Languages](
    [LanguageID] [int] IDENTITY(1,1) NOT NULL,
    [Language] [nvarchar](50) NOT NULL,
 CONSTRAINT [PK_Languages] PRIMARY KEY CLUSTERED
(
    [LanguageID] 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
```

Tabela ModulesAbsences:

- tabela zawiera informacje, który student nie był na którym module z kursów

```
CREATE TABLE [dbo].[ModulesAbsences](
    [ModuleID] [int] NOT NULL,
    [StudentID] [int] NOT NULL,
 CONSTRAINT [PK_ModulesAbsences] PRIMARY KEY CLUSTERED
(
    [ModuleID] ASC,
    [StudentID] 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].[ModulesAbsences]  WITH CHECK ADD  CONSTRAINT [FK_ModulesAbsences_CoursesModules] FOREIGN KEY([ModuleID])
REFERENCES [dbo].[CoursesModules] ([ModuleID])
GO

ALTER TABLE [dbo].[ModulesAbsences] CHECK CONSTRAINT [FK_ModulesAbsences_CoursesModules]
GO

ALTER TABLE [dbo].[ModulesAbsences]  WITH CHECK ADD  CONSTRAINT [FK_ModulesAbsences_Students] FOREIGN KEY([StudentID])
REFERENCES [dbo].[Students] ([StudentID])
GO

ALTER TABLE [dbo].[ModulesAbsences] CHECK CONSTRAINT [FK_ModulesAbsences_Students]
GO
```

Tabela OrderedCourses:

- tabela zawiera informacje na temat zamówionych kursów
- IsGrantedCertificate: czy został przyznany certyfikat

- CertificateHyperlink: link do certyfikatu

```
CREATE TABLE [dbo].[OrderedCourses](
    [OrderID] [nvarchar](50) NOT NULL,
    [CourseID] [int] NOT NULL,
    [HasBeenPaidFor] [bit] NOT NULL,
    [PaymentDeferral] [bit] NULL,
    [PaymentDeferralReason] [nvarchar](max) NULL,
    [CertificateHyperlink] [nvarchar](100) NULL,
    [IsGrantedCertificate] [bit] NULL,
    [PaymentAuthCode] [nvarchar](50) NULL,
    [Error] [nvarchar](max) NULL,
 CONSTRAINT [PK_OrderedCourses] PRIMARY KEY CLUSTERED
(
    [OrderID] ASC,
    [CourseID] 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] TEXTIMAGE_ON [PRIMARY]
GO

ALTER TABLE [dbo].[OrderedCourses] ADD  CONSTRAINT [DF_OrderedCourses_IsGrantedCertificate]  DEFAULT ((0)) FOR [IsGrantedCertificate]
GO

ALTER TABLE [dbo].[OrderedCourses]  WITH CHECK ADD  CONSTRAINT [FK_OrderedCourses_Courses] FOREIGN KEY([CourseID])
REFERENCES [dbo].[Courses] ([CourseID])
GO

ALTER TABLE [dbo].[OrderedCourses] CHECK CONSTRAINT [FK_OrderedCourses_Courses]
GO

ALTER TABLE [dbo].[OrderedCourses]  WITH CHECK ADD  CONSTRAINT [FK_OrderedCourses_Orders] FOREIGN KEY([OrderID])
REFERENCES [dbo].[Orders] ([OrderID])
GO

ALTER TABLE [dbo].[OrderedCourses] CHECK CONSTRAINT [FK_OrderedCourses_Orders]
GO

ALTER TABLE [dbo].[OrderedCourses]  WITH CHECK ADD  CONSTRAINT [OC_Certificates] CHECK  (([IsGrantedCertificate]=(0) AND [CertificateHyperlink] IS NULL OR [CertificateHyperlink] IS NOT NULL))
GO

ALTER TABLE [dbo].[OrderedCourses] CHECK CONSTRAINT [OC_Certificates]
GO

ALTER TABLE [dbo].[OrderedCourses]  WITH CHECK ADD  CONSTRAINT [OC_PaymentDeferral] CHECK  (([PaymentDeferral]=(0) AND [PaymentDeferralReason] IS NULL OR [PaymentDeferral]=(1)))
GO

ALTER TABLE [dbo].[OrderedCourses] CHECK CONSTRAINT [OC_PaymentDeferral]
GO
```

Tabela OrderedStudies:

- tabela zawiera informacje na temat zamówionych studiów
- FailedInternship: czy praktyki zostały zaliczone
- EntryFeePaid: czy opłata rekrutacyjna została opłacona

```
CREATE TABLE [dbo].[OrderedStudies](
    [OrderID] [nvarchar](50) NOT NULL,
    [StudyID] [int] NOT NULL,
    [PaymentDeferral] [bit] NULL,
    [PaymentDeferralReason] [nvarchar](max) NULL,
    [FailedInternship] [bit] NULL,
    [CertificateHyperlink] [nvarchar](100) NULL,
    [IsGrantedCertificate] [bit] NULL,
    [EntryFeePaid] [bit] NOT NULL,
    [PaymentAuthCode] [nvarchar](50) NULL,
    [Error] [nvarchar](max) NULL,
    [FinalExamPassed] [bit] NULL,
 CONSTRAINT [PK_OrderedStudies_1] PRIMARY KEY CLUSTERED
(
    [OrderID] ASC,
    [StudyID] 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] TEXTIMAGE_ON [PRIMARY]
GO

ALTER TABLE [dbo].[OrderedStudies] ADD  CONSTRAINT [DF_OrderedStudies_IsGrantedCertificate]  DEFAULT ((0)) FOR [IsGrantedCertificate]
GO

ALTER TABLE [dbo].[OrderedStudies]  WITH CHECK ADD  CONSTRAINT [FK_OrderedStudies_Orders] FOREIGN KEY([OrderID])
REFERENCES [dbo].[Orders] ([OrderID])
GO

ALTER TABLE [dbo].[OrderedStudies] CHECK CONSTRAINT [FK_OrderedStudies_Orders]
GO

ALTER TABLE [dbo].[OrderedStudies]  WITH CHECK ADD  CONSTRAINT [FK_OrderedStudies_Studies] FOREIGN KEY([StudyID])
REFERENCES [dbo].[Studies] ([StudyID])
GO

ALTER TABLE [dbo].[OrderedStudies] CHECK CONSTRAINT [FK_OrderedStudies_Studies]
GO

ALTER TABLE [dbo].[OrderedStudies]  WITH CHECK ADD  CONSTRAINT [OS_Certificates] CHECK  (([IsGrantedCertificate]=(0) AND [CertificateHyperlink] IS NULL OR [CertificateHyperlink] IS NOT NULL OR
[FailedInternship]=(0) AND [CertificateHyperlink] IS NULL))
GO

ALTER TABLE [dbo].[OrderedStudies] CHECK CONSTRAINT [OS_Certificates]
GO

ALTER TABLE [dbo].[OrderedStudies]  WITH CHECK ADD  CONSTRAINT [OS_PaymentDeferral] CHECK  (([PaymentDeferral]=(0) AND [PaymentDeferralReason] IS NULL OR [PaymentDeferral]=(1)))
GO

ALTER TABLE [dbo].[OrderedStudies] CHECK CONSTRAINT [OS_PaymentDeferral]
GO
```

Tabela OrderedStudyMeetings:

- tabela zawiera informacje na temat zamówionych pojedynczych spotkań z toku studiów
- IsPartOfStudies: czy osoba która zamówiła spotkanie bierze udział w studiach
- LeftPayment: ile zostało do zapłacenia

```
CREATE TABLE [dbo].[OrderedStudyMeetings](
    [OrderID] [nvarchar](50) NOT NULL,
```

```
    [StudyMeetingID] [int] NOT NULL,
    [IsPartOfStudies] [bit] NOT NULL,
    [HasBeenPaidFor] [bit] NOT NULL,
    [PaymentDeferral] [bit] NULL,
    [PaymentDeferralReason] [nvarchar](max) NULL,
    [PaymentAuthCode] [nvarchar](50) NULL,
    [Error] [nvarchar](max) NULL,
 CONSTRAINT [PK_OrderedStudyMeetings_1] PRIMARY KEY CLUSTERED
(
    [StudyMeetingID] ASC,
    [OrderID] 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] TEXTIMAGE_ON [PRIMARY]
GO

ALTER TABLE [dbo].[OrderedStudyMeetings]  WITH CHECK ADD  CONSTRAINT [FK_OrderedStudyMeetings_Orders] FOREIGN KEY([OrderID])
REFERENCES [dbo].[Orders] ([OrderID])
GO

ALTER TABLE [dbo].[OrderedStudyMeetings] CHECK CONSTRAINT [FK_OrderedStudyMeetings_Orders]
GO

ALTER TABLE [dbo].[OrderedStudyMeetings]  WITH CHECK ADD  CONSTRAINT [FK_OrderedStudyMeetings_StudyMeetings] FOREIGN KEY([StudyMeetingID])
REFERENCES [dbo].[StudyMeetings] ([StudyMeetingID])
GO

ALTER TABLE [dbo].[OrderedStudyMeetings] CHECK CONSTRAINT [FK_OrderedStudyMeetings_StudyMeetings]
GO

ALTER TABLE [dbo].[OrderedStudyMeetings]  WITH CHECK ADD  CONSTRAINT [OSM_PaymentDeferral] CHECK  (([PaymentDeferral]=(0) AND [PaymentDeferralReason] IS NULL OR [PaymentDeferral]=(1)))
GO

ALTER TABLE [dbo].[OrderedStudyMeetings] CHECK CONSTRAINT [OSM_PaymentDeferral]
GO
```

Tabela OrderedWebinars:

- tabela zawiera informacje na temat zamówionych webinariów
- OrderID: klucz obcy, który wskazuje na tabele Orders, do którego zamówienia należy dany webinar
- LeftPayment: ile zostało do zapłacenia
- PickupDate: okres, na który został zakupiony webinar
- PaymentDeferral, PaymentDeferralReasson: czy płatność została odroczona oraz powód

```
CREATE TABLE [dbo].[OrderedWebinars](
    [OrderID] [nvarchar](50) NOT NULL,
    [WebinarID] [int] NOT NULL,
    [HasBeenPaidFor] [bit] NOT NULL,
    [PickupDate] [datetime] NULL,
    [PaymentDeferral] [bit] NULL,
    [PaymentDeferralReason] [nvarchar](max) NULL,
    [PaymentAuthCode] [nvarchar](50) NULL,
    [Error] [nvarchar](max) NULL,
 CONSTRAINT [PK_OrderedWebinars] PRIMARY KEY CLUSTERED
(
    [OrderID] ASC,
    [WebinarID] 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] TEXTIMAGE_ON [PRIMARY]
GO

ALTER TABLE [dbo].[OrderedWebinars]  WITH CHECK ADD  CONSTRAINT [FK_OrderedWebinars_Orders] FOREIGN KEY([OrderID])
REFERENCES [dbo].[Orders] ([OrderID])
GO

ALTER TABLE [dbo].[OrderedWebinars] CHECK CONSTRAINT [FK_OrderedWebinars_Orders]
GO

ALTER TABLE [dbo].[OrderedWebinars]  WITH CHECK ADD  CONSTRAINT [FK_OrderedWebinars_Webinars] FOREIGN KEY([WebinarID])
REFERENCES [dbo].[Webinars] ([WebinarID])
GO

ALTER TABLE [dbo].[OrderedWebinars] CHECK CONSTRAINT [FK_OrderedWebinars_Webinars]
GO

ALTER TABLE [dbo].[OrderedWebinars]  WITH CHECK ADD  CONSTRAINT [OW_PaymentDeferral] CHECK  (([PaymentDeferral]=(0) AND [PaymentDeferralReason] IS NULL OR [PaymentDeferral]=(1)))
GO

ALTER TABLE [dbo].[OrderedWebinars] CHECK CONSTRAINT [OW_PaymentDeferral]
GO
```

Tabela Orders:

- tabela pełni rolę koszyka, zapisuje dane, który student co ma w koszyku oraz kiedy to zamówił
- status: informacja czy produkt jest w koszyku, czy płatność jest przetwarzana oraz czy produkt już jest zamówiony

```
CREATE TABLE [dbo].[Orders](
    [OrderID] [nvarchar](50) NOT NULL,
    [StudentID] [int] NOT NULL,
    [OrderDate] [datetime] NULL,
    [Status] [nvarchar](50) NOT NULL,
    [AdditionToBasketDate] [datetime] NULL,
    [PaymentHyperlink] [nvarchar](max) NULL,
 CONSTRAINT [PK_Orders] PRIMARY KEY CLUSTERED
(
    [OrderID] 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] TEXTIMAGE_ON [PRIMARY]
GO

ALTER TABLE [dbo].[Orders]  WITH CHECK ADD  CONSTRAINT [O_Status] CHECK  (([Status]='Delivered' OR [Status]='Pending'))
GO

ALTER TABLE [dbo].[Orders] CHECK CONSTRAINT [O_Status]
GO
```

Tabela Students:

- tabela zawiera wszystkie osoby, które są uczniami/wykupiły jakiś kurs/webinar

```
CREATE TABLE [dbo].[Students](
    [StudentID] [int] NOT NULL,
 CONSTRAINT [PK_Students] PRIMARY KEY CLUSTERED
```

```
(
    [StudentID] 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].[Students]  WITH CHECK ADD  CONSTRAINT [FK_Students_Users1] FOREIGN KEY([StudentID])
REFERENCES [dbo].[Users] ([UserID])
GO

ALTER TABLE [dbo].[Students] CHECK CONSTRAINT [FK_Students_Users1]
GO
```

Tabela Studies:

- tabela zawiera informacje na temat wszystkich studiów
- duration: ile semestrów trwają studia
- entryFee: opłata rekrutacyjna
- SyllabusDescription: opis toku studiów

```
CREATE TABLE [dbo].[Studies](
    [StudyID] [int] IDENTITY(1,1) NOT NULL,
    [FieldOfStudy] [nvarchar](50) NOT NULL,
    [Duration] [int] NOT NULL,
    [EntryFee] [money] NOT NULL,
    [AcademicYear] [int] NOT NULL,
    [Limit] [int] NOT NULL,
    [SyllabusDescription] [nvarchar](max) NOT NULL,
    [InternshipName] [nvarchar](50) NOT NULL,
    [InternshipStartDate] [datetime] NOT NULL,
 CONSTRAINT [PK_Studies] PRIMARY KEY CLUSTERED
(
    [StudyID] 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],
 CONSTRAINT [FieldOfStudy] UNIQUE NONCLUSTERED
(
    [FieldOfStudy] 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] TEXTIMAGE_ON [PRIMARY]
GO

ALTER TABLE [dbo].[Studies]  WITH CHECK ADD  CONSTRAINT [S_Duration] CHECK  (([Duration]>(0)))
GO

ALTER TABLE [dbo].[Studies] CHECK CONSTRAINT [S_Duration]
GO

ALTER TABLE [dbo].[Studies]  WITH CHECK ADD  CONSTRAINT [S_EntryFee] CHECK  (([EntryFee]>=(0)))
GO

ALTER TABLE [dbo].[Studies] CHECK CONSTRAINT [S_EntryFee]
GO

ALTER TABLE [dbo].[Studies]  WITH CHECK ADD  CONSTRAINT [S_Limit] CHECK  (([Limit]>(0)))
GO

ALTER TABLE [dbo].[Studies] CHECK CONSTRAINT [S_Limit]
GO

ALTER TABLE [dbo].[Studies]  WITH CHECK ADD  CONSTRAINT [S_NotEmpty] CHECK  (([SyllabusDescription]<>'' AND [InternshipName]<>''))
GO

ALTER TABLE [dbo].[Studies] CHECK CONSTRAINT [S_NotEmpty]
GO
```

Tabela StudyMeetings:

- tabela zawiera informacje na temat wszystkich spotkań w ramach studiów
- type: typ spotkania np. stacjonarne, zdalne, hybrydowe
- MeetingPrice, MeetingPriceForStudents: cena za pojedyncze spotkanie dla osoby spoza studiów oraz dla osoby zapisanej już na studia

```
CREATE TABLE [dbo].[StudyMeetings](
    [StudyMeetingID] [int] IDENTITY(1,1) NOT NULL,
    [StudyID] [int] NOT NULL,
    [Type] [nvarchar](50) NOT NULL,
    [TeacherID] [int] NOT NULL,
    [LanguageID] [int] NULL,
    [MeetingName] [nvarchar](50) NOT NULL,
    [MeetingPrice] [money] NOT NULL,
    [MeetingPriceForStudents] [money] NOT NULL,
    [BeginningDate] [datetime] NOT NULL,
    [Duration] [time](7) NULL,
    [MeetingSyllabusDescription] [nvarchar](1000) NOT NULL,
    [SeatCount] [int] NULL,
    [TranslatorName] [nvarchar](50) NULL,
    [TranslatorSurname] [nvarchar](50) NULL,
 CONSTRAINT [PK_StudyMeetings] PRIMARY KEY CLUSTERED
(
    [StudyMeetingID] 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].[StudyMeetings]  WITH CHECK ADD  CONSTRAINT [FK_StudyMeetings_Languages] FOREIGN KEY([LanguageID])
REFERENCES [dbo].[Languages] ([LanguageID])
GO

ALTER TABLE [dbo].[StudyMeetings] CHECK CONSTRAINT [FK_StudyMeetings_Languages]
GO

ALTER TABLE [dbo].[StudyMeetings]  WITH CHECK ADD  CONSTRAINT [FK_StudyMeetings_Studies] FOREIGN KEY([StudyID])
REFERENCES [dbo].[Studies] ([StudyID])
GO

ALTER TABLE [dbo].[StudyMeetings] CHECK CONSTRAINT [FK_StudyMeetings_Studies]
GO

ALTER TABLE [dbo].[StudyMeetings]  WITH CHECK ADD  CONSTRAINT [FK_StudyMeetings_Teachers] FOREIGN KEY([TeacherID])
REFERENCES [dbo].[Teachers] ([TeacherID])
GO

ALTER TABLE [dbo].[StudyMeetings] CHECK CONSTRAINT [FK_StudyMeetings_Teachers]
GO
```

```
ALTER TABLE [dbo].[StudyMeetings]  WITH CHECK ADD  CONSTRAINT [SM_Duration] CHECK  (([Duration]='01:30' OR [Duration]='00:45'))
GO

ALTER TABLE [dbo].[StudyMeetings] CHECK CONSTRAINT [SM_Duration]
GO

ALTER TABLE [dbo].[StudyMeetings]  WITH CHECK ADD  CONSTRAINT [SM_MeetingPrice] CHECK  (([MeetingPrice]>(0) AND [MeetingPriceForStudents]>(0)))
GO

ALTER TABLE [dbo].[StudyMeetings] CHECK CONSTRAINT [SM_MeetingPrice]
GO

ALTER TABLE [dbo].[StudyMeetings]  WITH CHECK ADD  CONSTRAINT [SM_MeetingSyllabus] CHECK  (([MeetingSyllabusDescription]<>''))
GO

ALTER TABLE [dbo].[StudyMeetings] CHECK CONSTRAINT [SM_MeetingSyllabus]
GO

ALTER TABLE [dbo].[StudyMeetings]  WITH CHECK ADD  CONSTRAINT [SM_SeatCount] CHECK  (([SeatCount]>(0)))
GO

ALTER TABLE [dbo].[StudyMeetings] CHECK CONSTRAINT [SM_SeatCount]
GO
```

Tabela StudyMeetingsAbsences:

- tabela zawiera informacje, który student nie był na którym spotkaniu ze studiów
- HasBeenCaughtUp: informacja czy odrobił tę nieobecność

```
CREATE TABLE [dbo].[StudyMeetingsAbsences](
    [StudyMeetingID] [int] NOT NULL,
    [StudentID] [int] NOT NULL,
    [HasBeenCaughtUp] [bit] NOT NULL,
 CONSTRAINT [PK_StudyMeetingsAbsences_1] PRIMARY KEY CLUSTERED
(
    [StudyMeetingID] ASC,
    [StudentID] 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].[StudyMeetingsAbsences]  WITH CHECK ADD  CONSTRAINT [FK_StudyMeetingsAbsences_Students] FOREIGN KEY([StudentID])
REFERENCES [dbo].[Students] ([StudentID])
GO

ALTER TABLE [dbo].[StudyMeetingsAbsences] CHECK CONSTRAINT [FK_StudyMeetingsAbsences_Students]
GO

ALTER TABLE [dbo].[StudyMeetingsAbsences]  WITH CHECK ADD  CONSTRAINT [FK_StudyMeetingsAbsences_StudyMeetings1] FOREIGN KEY([StudyMeetingID])
REFERENCES [dbo].[StudyMeetings] ([StudyMeetingID])
GO

ALTER TABLE [dbo].[StudyMeetingsAbsences] CHECK CONSTRAINT [FK_StudyMeetingsAbsences_StudyMeetings1]
GO
```

Tabela Teachers:

- tabela zawiera wszystkie osoby, które są nauczycielami

```
CREATE TABLE [dbo].[Teachers](
    [TeacherID] [int] NOT NULL,
 CONSTRAINT [PK_Teachers] PRIMARY KEY CLUSTERED
(
    [TeacherID] 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].[Teachers]  WITH CHECK ADD  CONSTRAINT [FK_Teachers_Users1] FOREIGN KEY([TeacherID])
REFERENCES [dbo].[Users] ([UserID])
GO

ALTER TABLE [dbo].[Teachers] CHECK CONSTRAINT [FK_Teachers_Users1]
GO
```

Tabela Users:

- tabela, w której znajdują się wszyscy użytkownicy i ich dane

```
CREATE TABLE [dbo].[Users](
    [UserID] [int] IDENTITY(1,1) NOT NULL,
    [Email] [nvarchar](320) NOT NULL,
    [Password] [nvarchar](50) NOT NULL,
    [Name] [nvarchar](50) NOT NULL,
    [Surname] [nvarchar](50) NOT NULL,
    [CountryID] [int] NOT NULL,
    [CityID] [int] NOT NULL,
    [ZipCode] [nvarchar](50) NULL,
    [Street] [nvarchar](50) NOT NULL,
    [Address] [nvarchar](50) NOT NULL,
    [PhoneNumber] [nvarchar](50) NULL,
 CONSTRAINT [PK_Users] 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

ALTER TABLE [dbo].[Users]  WITH CHECK ADD  CONSTRAINT [FK_Users_CountryCity] FOREIGN KEY([CountryID], [CityID])
REFERENCES [dbo].[CountryCity] ([CountryID], [CityID])
GO

ALTER TABLE [dbo].[Users] CHECK CONSTRAINT [FK_Users_CountryCity]
GO

ALTER TABLE [dbo].[Users]  WITH CHECK ADD  CONSTRAINT [U_Names] CHECK  (([Name]<>'' AND [Surname]<>''))
GO

ALTER TABLE [dbo].[Users] CHECK CONSTRAINT [U_Names]
GO

ALTER TABLE [dbo].[Users]  WITH CHECK ADD  CONSTRAINT [U_NotEmpty] CHECK  (([Email]<>'' AND [Password]<>'' AND [ZipCode]<>'' AND [Street]<>'' AND [Address]<>'' AND [PhoneNumber]<>''))
```

```
GO

ALTER TABLE [dbo].[Users] CHECK CONSTRAINT [U_NotEmpty]
GO
```

Tabela Webinars:

- tabela zawiera informacje na temat wszystkich webinarów
- hyperlink: link do webinaru
- language: język, w którym są prowadzone webinary
- translatorName, translatorSurname: imię i nazwisko translatora

```
CREATE TABLE [dbo].[Webinars](
    [WebinarID] [int] IDENTITY(1,1) NOT NULL,
    [TeacherID] [int] NOT NULL,
    [Name] [nvarchar](50) NOT NULL,
    [Price] [money] NOT NULL,
    [Hyperlink] [nvarchar](100) NOT NULL,
    [LanguageID] [int] NOT NULL,
    [TranslatorName] [nvarchar](50) NULL,
    [TranslatorSurname] [nvarchar](50) NULL,
    [StartDate] [datetime] NOT NULL,
    [Duration] [time](7) NOT NULL,
 CONSTRAINT [PK_Webinars] PRIMARY KEY CLUSTERED
(
    [WebinarID] 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].[Webinars]  WITH CHECK ADD  CONSTRAINT [FK_Webinars_Languages] FOREIGN KEY([LanguageID])
REFERENCES [dbo].[Languages] ([LanguageID])
GO

ALTER TABLE [dbo].[Webinars] CHECK CONSTRAINT [FK_Webinars_Languages]
GO

ALTER TABLE [dbo].[Webinars]  WITH CHECK ADD  CONSTRAINT [FK_Webinars_Teachers] FOREIGN KEY([TeacherID])
REFERENCES [dbo].[Teachers] ([TeacherID])
GO

ALTER TABLE [dbo].[Webinars] CHECK CONSTRAINT [FK_Webinars_Teachers]
GO

ALTER TABLE [dbo].[Webinars]  WITH CHECK ADD  CONSTRAINT [W_Hyperlink] CHECK  (([Hyperlink]<>''))
GO

ALTER TABLE [dbo].[Webinars] CHECK CONSTRAINT [W_Hyperlink]
GO

ALTER TABLE [dbo].[Webinars]  WITH CHECK ADD  CONSTRAINT [W_Name] CHECK  (([Name]<>''))
GO

ALTER TABLE [dbo].[Webinars] CHECK CONSTRAINT [W_Name]
GO

ALTER TABLE [dbo].[Webinars]  WITH CHECK ADD  CONSTRAINT [W_Price] CHECK  (([Price]>(0)))
GO

ALTER TABLE [dbo].[Webinars] CHECK CONSTRAINT [W_Price]
GO

ALTER TABLE [dbo].[Webinars]  WITH CHECK ADD  CONSTRAINT [W_Translator] CHECK  (([TranslatorName]<>'' AND [TranslatorSurname]<>''))
GO

ALTER TABLE [dbo].[Webinars] CHECK CONSTRAINT [W_Translator]
GO
```

Widoki

Raporty dłużników

Dłużnikiem jest osoba, która dany produkt zamówiła, nie spełnia odpowiednich dla danego typu nauki terminów płatności, nie ma odroczenia płatności.

Raport dłużników Courses

```
CREATE VIEW [dbo].[n_RaportDłużnikówCourses]
AS
SELECT        dbo.Students.StudentID, dbo.OrderedCourses.HasBeenPaidFor, GETDATE() AS CurrentDate, dbo.Courses.StartDate
FROM            dbo.Courses INNER JOIN
                         dbo.OrderedCourses ON dbo.Courses.CourseID = dbo.OrderedCourses.CourseID INNER JOIN
                         dbo.Orders ON dbo.OrderedCourses.OrderID = dbo.Orders.OrderID INNER JOIN
                         dbo.Students ON dbo.Orders.StudentID = dbo.Students.StudentID
WHERE        (dbo.OrderedCourses.PaymentDeferral = 0) AND (DATEDIFF(day, GETDATE(), dbo.Courses.StartDate) <= 3) AND (dbo.Orders.Status = 'Delivered') AND (dbo.OrderedCourses.HasBeenPaidFor = 0)
```

Raport dłużników Studies

```
CREATE VIEW [dbo].[n_RaportDłużnikówStudies]
AS
SELECT        dbo.Students.StudentID
FROM            dbo.OrderedStudies INNER JOIN
                         dbo.Studies ON dbo.OrderedStudies.StudyID = dbo.Studies.StudyID INNER JOIN
                         dbo.StudyMeetings ON dbo.Studies.StudyID = dbo.StudyMeetings.StudyID INNER JOIN
                         dbo.OrderedStudyMeetings ON dbo.StudyMeetings.StudyMeetingID = dbo.OrderedStudyMeetings.StudyMeetingID INNER JOIN
                         dbo.Orders ON dbo.OrderedStudies.OrderID = dbo.Orders.OrderID AND dbo.OrderedStudyMeetings.OrderID = dbo.Orders.OrderID INNER JOIN
                         dbo.Students ON dbo.Orders.StudentID = dbo.Students.StudentID
WHERE        (dbo.OrderedStudies.PaymentDeferral = 0) AND (dbo.OrderedStudies.EntryFeePaid = 0) AND (dbo.Orders.Status = 'Delivered') OR
                         (dbo.Orders.Status = 'Delivered') AND (dbo.OrderedStudyMeetings.IsPartOfStudies = 1) AND (dbo.OrderedStudyMeetings.PaymentDeferral = 0) AND (DATEDIFF(day, GETDATE(),
dbo.StudyMeetings.BeginningDate) <= 3) AND
                         (dbo.OrderedStudyMeetings.HasBeenPaidFor = 1)
```

Raport dłużników StudyMeetings bez studium

```
CREATE VIEW [dbo].[n_RaportDłużnikówStudyMeetingsNieStudium]
AS
SELECT        dbo.Students.StudentID, dbo.OrderedStudyMeetings.HasBeenPaidFor
FROM            dbo.Orders INNER JOIN
                         dbo.OrderedStudyMeetings ON dbo.Orders.OrderID = dbo.OrderedStudyMeetings.OrderID INNER JOIN
                         dbo.Students ON dbo.Orders.StudentID = dbo.Students.StudentID INNER JOIN
```

```
                        dbo.StudyMeetings ON dbo.OrderedStudyMeetings.StudyMeetingID = dbo.StudyMeetings.StudyMeetingID
WHERE       (dbo.OrderedStudyMeetings.IsPartOfStudies = 0) AND (dbo.OrderedStudyMeetings.PaymentDeferral = 0) AND (DATEDIFF(day, GETDATE(), dbo.StudyMeetings.BeginningDate) <= 3) AND
(dbo.Orders.Status = 'Delivered') AND
                        (dbo.OrderedStudyMeetings.HasBeenPaidFor = 0)
```

Raport dłużników Webinars

```
CREATE VIEW [dbo].[n_RaportDłużnikówWebinars]
AS
SELECT        dbo.Students.StudentID, dbo.OrderedWebinars.HasBeenPaidFor, GETDATE() AS CurrentDate, dbo.Webinars.StartDate, dbo.OrderedWebinars.PaymentDeferral
FROM            dbo.OrderedWebinars INNER JOIN
                        dbo.Orders ON dbo.OrderedWebinars.OrderID = dbo.Orders.OrderID INNER JOIN
                        dbo.Webinars ON dbo.OrderedWebinars.WebinarID = dbo.Webinars.WebinarID INNER JOIN
                        dbo.Students ON dbo.Orders.StudentID = dbo.Students.StudentID
WHERE       (dbo.Webinars.StartDate < GETDATE()) AND (dbo.OrderedWebinars.PaymentDeferral = 0) AND (dbo.Orders.Status = 'Delivered') AND (dbo.OrderedWebinars.HasBeenPaidFor = 0)
```

Raporty zapisanych.

To, że ktoś jest zapisany na dany typ spotkania oznacza, że zamówił go i jego status to 'Delivered'.

Raport zapisanych osób na CoursesModules

```
CREATE VIEW [dbo].[n_RaportDotyczącyLiczbyOsóbNaCoursesModules]
AS
SELECT        dbo.CoursesModules.Type, COUNT(dbo.OrderedCourses.CourseID) AS [Liczba osob], dbo.CoursesModules.ModuleName
FROM            dbo.Orders INNER JOIN
                        dbo.Students ON dbo.Orders.StudentID = dbo.Students.StudentID INNER JOIN
                        dbo.OrderedCourses ON dbo.Orders.OrderID = dbo.OrderedCourses.OrderID INNER JOIN
                        dbo.Courses ON dbo.OrderedCourses.CourseID = dbo.Courses.CourseID INNER JOIN
                        dbo.CoursesModules ON dbo.Courses.CourseID = dbo.CoursesModules.CourseID
WHERE       (dbo.CoursesModules.BeginningDate > GETDATE()) AND (dbo.Orders.Status = 'Delivered')
GROUP BY dbo.Students.StudentID, dbo.OrderedCourses.CourseID, dbo.CoursesModules.Type, dbo.CoursesModules.ModuleName
```

Raport zapisanych osób na Meetings

```
CREATE VIEW [dbo].[n_RaportDotyczącyLiczbyOsóbNaMeetings]
AS
SELECT        dbo.StudyMeetings.MeetingName, dbo.StudyMeetings.Type, COUNT(dbo.OrderedStudyMeetings.StudyMeetingID) AS [Liczba osob]
FROM            dbo.OrderedStudyMeetings INNER JOIN
                        dbo.StudyMeetings ON dbo.OrderedStudyMeetings.StudyMeetingID = dbo.StudyMeetings.StudyMeetingID INNER JOIN
                        dbo.Orders ON dbo.OrderedStudyMeetings.OrderID = dbo.Orders.OrderID INNER JOIN
                        dbo.Students ON dbo.Orders.StudentID = dbo.Students.StudentID
WHERE       (dbo.StudyMeetings.BeginningDate > GETDATE()) AND (dbo.Orders.Status = 'Delivered')
GROUP BY dbo.OrderedStudyMeetings.StudyMeetingID, dbo.StudyMeetings.Type, dbo.StudyMeetings.MeetingName
```

Raport zapisanych osób na Webinars

```
CREATE VIEW [dbo].[n_RaportDotyczącyLiczbyOsóbNaWebinars]
AS
SELECT        dbo.Webinars.Name, COUNT(dbo.OrderedWebinars.WebinarID) AS [Liczba osob], 'zdalnie' AS tryb
FROM            dbo.OrderedWebinars INNER JOIN
                        dbo.Orders ON dbo.OrderedWebinars.OrderID = dbo.Orders.OrderID INNER JOIN
                        dbo.Webinars ON dbo.OrderedWebinars.WebinarID = dbo.Webinars.WebinarID INNER JOIN
                        dbo.Students ON dbo.Orders.StudentID = dbo.Students.StudentID
WHERE       (dbo.Webinars.StartDate > GETDATE()) AND (dbo.Orders.Status = 'Delivered')
GROUP BY dbo.Webinars.Name, dbo.OrderedWebinars.WebinarID
```

Raporty Finansowe

Raporty są tworzone w następujące sposób, patrzymy do odpowiadających tabel ordered. Następnie łącząc z tabelą odpowiadającą typowi nauczania, grupujemy po ID i podajemy kwoty. Dodatkowo sprawdzamy czy produkt został już zamówiony (nie jest w koszyku) i został opłacony.

Raport finansowy Courses

```
CREATE VIEW [dbo].[n_RaportFinansowyCourses]
AS
WITH t1 AS (SELECT        dbo.Courses.CourseID, COUNT(*) * dbo.Courses.Price AS zarobionasuma
                         FROM            dbo.Orders INNER JOIN
                                                  dbo.OrderedCourses ON dbo.Orders.OrderID = dbo.OrderedCourses.OrderID RIGHT OUTER JOIN
                                                  dbo.Courses ON dbo.OrderedCourses.CourseID = dbo.Courses.CourseID
                         WHERE       (dbo.Orders.Status = 'Delivered') AND (dbo.OrderedCourses.HasBeenPaidFor = 1)
                         GROUP BY dbo.Courses.CourseID, dbo.Courses.Price)
    SELECT        Courses_1.CourseID, ISNULL(t1_1.zarobionasuma, 0) AS Expr1
     FROM            dbo.Courses AS Courses_1 LEFT OUTER JOIN
                              t1 AS t1_1 ON t1_1.CourseID = Courses_1.CourseID
```

Raport finansowy Studies

```
CREATE VIEW [dbo].[n_RaportFinansowyStudies]
AS
WITH t1 AS (SELECT        dbo.StudyMeetings.StudyMeetingID, COUNT(*) * dbo.StudyMeetings.MeetingPrice AS zarobionasuma
                         FROM            dbo.Orders INNER JOIN
                                                  dbo.OrderedStudyMeetings ON dbo.Orders.OrderID = dbo.OrderedStudyMeetings.OrderID RIGHT OUTER JOIN
                                                  dbo.StudyMeetings ON dbo.OrderedStudyMeetings.StudyMeetingID = dbo.StudyMeetings.StudyMeetingID
                         WHERE       (dbo.Orders.Status = 'Delivered') AND (dbo.OrderedStudyMeetings.HasBeenPaidFor = 1) AND (dbo.OrderedStudyMeetings.IsPartOfStudies = 1)
                         GROUP BY dbo.StudyMeetings.StudyMeetingID, dbo.StudyMeetings.MeetingPrice), t2 AS
    (SELECT        StudyMeetings_1.StudyID AS idstudiow, StudyMeetings_1.StudyMeetingID AS idspotkania, ISNULL(t1_1.zarobionasuma, 0) AS zarobionasuma
      FROM            dbo.StudyMeetings AS StudyMeetings_1 LEFT OUTER JOIN
                              t1 AS t1_1 ON t1_1.StudyMeetingID = StudyMeetings_1.StudyMeetingID), t3 AS
    (SELECT        idstudiow, SUM(zarobionasuma) AS zarobionasuma
      FROM            t2 AS t2_1
      GROUP BY idstudiow), t4 AS
    (SELECT        dbo.OrderedStudies.StudyID AS idstudiow, COUNT(dbo.OrderedStudies.EntryFeePaid) AS liczbaoplacenfee
      FROM            dbo.OrderedStudies INNER JOIN
                              dbo.Orders AS Orders_1 ON dbo.OrderedStudies.OrderID = Orders_1.OrderID
      WHERE        (Orders_1.Status = 'Delivered') AND (dbo.OrderedStudies.EntryFeePaid = 1)
      GROUP BY dbo.OrderedStudies.StudyID), t5 AS
    (SELECT        dbo.Studies.StudyID, ISNULL(t4_1.liczbaoplacenfee * dbo.Studies.EntryFee, 0) AS zarobekzentryfee
      FROM            dbo.Studies LEFT OUTER JOIN
                              t4 AS t4_1 ON dbo.Studies.StudyID = t4_1.idstudiow)
    SELECT        t5_1.StudyID, t3_1.zarobionasuma + t5_1.zarobekzentryfee AS zarobekcały
     FROM            t5 AS t5_1 LEFT OUTER JOIN
                              t3 AS t3_1 ON t5_1.StudyID = t3_1.idstudiow
```

Raport finansowy StudyMeetings poza studium

```
CREATE VIEW [dbo].[n_RaportFinansowyStudyMeetingsNoStudies]
AS
WITH t1 AS (SELECT        dbo.StudyMeetings.StudyMeetingID, COUNT(*) * dbo.StudyMeetings.MeetingPrice AS zarobionasuma
                          FROM            dbo.Orders INNER JOIN
                                                   dbo.OrderedStudyMeetings ON dbo.Orders.OrderID = dbo.OrderedStudyMeetings.OrderID RIGHT OUTER JOIN
                                                   dbo.StudyMeetings ON dbo.OrderedStudyMeetings.StudyMeetingID = dbo.StudyMeetings.StudyMeetingID
                          WHERE        (dbo.Orders.Status = 'Delivered') AND (dbo.OrderedStudyMeetings.HasBeenPaidFor = 1) AND (dbo.OrderedStudyMeetings.IsPartOfStudies = 0)
                          GROUP BY dbo.StudyMeetings.StudyMeetingID, dbo.StudyMeetings.MeetingPrice)
    SELECT        StudyMeetings_1.StudyMeetingID, ISNULL(t1_1.zarobionasuma, 0) AS Expr1
     FROM           dbo.StudyMeetings AS StudyMeetings_1 LEFT OUTER JOIN
                              t1 AS t1_1 ON t1_1.StudyMeetingID = StudyMeetings_1.StudyMeetingID
```

Raport finansowy Webinars

```
CREATE VIEW [dbo].[n_RaportFinansowyWebinary]
AS
WITH t1 AS (SELECT        dbo.Webinars.WebinarID, COUNT(*) * dbo.Webinars.Price AS zarobionasuma
                          FROM            dbo.Orders INNER JOIN
                                                   dbo.OrderedWebinars ON dbo.Orders.OrderID = dbo.OrderedWebinars.OrderID RIGHT OUTER JOIN
                                                   dbo.Webinars ON dbo.OrderedWebinars.WebinarID = dbo.Webinars.WebinarID
                          WHERE        (dbo.Orders.Status = 'Delivered') AND (dbo.OrderedWebinars.HasBeenPaidFor = 1)
                          GROUP BY dbo.Webinars.WebinarID, dbo.Webinars.Price)
    SELECT        Webinars_1.WebinarID, ISNULL(t1_1.zarobionasuma, 0) AS Expr1
     FROM           dbo.Webinars AS Webinars_1 LEFT OUTER JOIN
                              t1 AS t1_1 ON t1_1.WebinarID = Webinars_1.WebinarID
```

Raporty frekwencji

Raporty frekwencji powstają w taki sposób, że od osób zapisanych na dany typ spotkania odejmujemy liczbę osób nieobecnych.

Raport frekwencji Meetings

```
CREATE VIEW [dbo].[n_RaportFrekwencjiMeetings]
AS
WITH t1 AS (SELECT        dbo.StudyMeetings.MeetingName, dbo.StudyMeetings.Type, COUNT(dbo.OrderedStudyMeetings.StudyMeetingID) AS [Liczba osob], dbo.StudyMeetings.StudyMeetingID
                          FROM            dbo.OrderedStudyMeetings INNER JOIN
                                                   dbo.StudyMeetings ON dbo.OrderedStudyMeetings.StudyMeetingID = dbo.StudyMeetings.StudyMeetingID INNER JOIN
                                                   dbo.Orders ON dbo.OrderedStudyMeetings.OrderID = dbo.Orders.OrderID INNER JOIN
                                                   dbo.Students ON dbo.Orders.StudentID = dbo.Students.StudentID
                          WHERE        (dbo.StudyMeetings.BeginningDate >= GETDATE()) AND (dbo.Orders.Status = 'Delivered')
                          GROUP BY dbo.OrderedStudyMeetings.StudyMeetingID, dbo.StudyMeetings.Type, dbo.StudyMeetings.MeetingName, dbo.StudyMeetings.StudyMeetingID), t2 AS
    (SELECT        StudyMeetingID, COUNT(StudentID) AS absencje
      FROM            dbo.StudyMeetingsAbsences
      GROUP BY StudyMeetingID)
    SELECT        t1_1.StudyMeetingID, t1_1.[Liczba osob] - t2_1.absencje AS liczbaobecnych
     FROM           t1 AS t1_1 INNER JOIN
                              t2 AS t2_1 ON t2_1.StudyMeetingID = t1_1.StudyMeetingID
```

Raport frekwencji Modules

```
CREATE VIEW [dbo].[n_RaportFrekwencjiModules]
AS
WITH t1 AS (SELECT        dbo.CoursesModules.Type, COUNT(dbo.OrderedCourses.CourseID) AS [Liczba osob], dbo.CoursesModules.ModuleName, dbo.CoursesModules.ModuleID
                          FROM            dbo.Orders INNER JOIN
                                                   dbo.Students ON dbo.Orders.StudentID = dbo.Students.StudentID INNER JOIN
                                                   dbo.OrderedCourses ON dbo.Orders.OrderID = dbo.OrderedCourses.OrderID INNER JOIN
                                                   dbo.Courses ON dbo.OrderedCourses.CourseID = dbo.Courses.CourseID INNER JOIN
                                                   dbo.CoursesModules ON dbo.Courses.CourseID = dbo.CoursesModules.CourseID
                          WHERE        (dbo.CoursesModules.BeginningDate >= GETDATE()) AND (dbo.Orders.Status = 'Delivered')
                          GROUP BY dbo.Students.StudentID, dbo.OrderedCourses.CourseID, dbo.CoursesModules.Type, dbo.CoursesModules.ModuleName, dbo.CoursesModules.ModuleID), t2 AS
    (SELECT        ModuleID, COUNT(StudentID) AS absencje
      FROM            dbo.ModulesAbsences
      GROUP BY ModuleID)
    SELECT        t1_1.ModuleID, t1_1.[Liczba osob] - t2_1.absencje AS liczbaobecnych
     FROM           t1 AS t1_1 INNER JOIN
                              t2 AS t2_1 ON t2_1.ModuleID = t1_1.ModuleID
```

Procedury

```
ALTER PROCEDURE [dbo].[AddCourseToBasket]
    @OrderID nvarchar(50),
    @StudentID int,
    @CourseID int,
    @PaymentHyperlink nvarchar(MAX)
AS
BEGIN
    SET NOCOUNT ON;
    SET XACT_ABORT ON

    DECLARE @date_ok bit; -- weryfikujemy, czy na pewno nadal można kupić kurs(trzeba dokonać wpłaty na 3 dni przed
    -- rozpoczęciem kursu)
    SELECT @date_ok = CASE
                      WHEN DATEDIFF(second, GETDATE(), StartDate) > 259200 THEN 1 -- 259200s = 72h = 3 dni
                      ELSE 0
                      END
                  FROM
                  Courses
                  WHERE CourseID=@CourseID;

    IF (@date_ok=0)
    BEGIN
        RAISERROR ('Za późno na kupienie tego kursu',16,1) WITH NOWAIT;
    END;
    -- weryfikujemy, czy podany kurs i student istnieją
    IF ((select count(CourseID) from Courses where CourseID=@CourseID) > 0) AND
        ((select count(StudentID) from Students where StudentID=@StudentID) > 0)
    BEGIN
        INSERT INTO Orders (OrderID, StudentID, Status, AdditionToBasketDate, PaymentHyperlink)
        VALUES (@OrderID, @StudentID, 'Pending', GETDATE(), @PaymentHyperlink);
        INSERT INTO OrderedCourses (OrderID, CourseID, HasBeenPaidFor)
        VALUES (@OrderID, @CourseID, 0);
    END
    ELSE
    BEGIN
        RAISERROR ('Nie istnieje Kurs albo Student o takim ID',16,1);
```

```
    END
END
```

```
ALTER PROCEDURE [dbo].[AddStudyMeetingToBasket]
    @OrderID nvarchar(50),
    @StudentID int,
    @StudyMeetingID int,
    @isPartOfStudies bit,
    @PaymentHyperlink nvarchar(MAX)
AS
BEGIN
    SET NOCOUNT ON;
    SET XACT_ABORT ON
    -- Insert statements for procedure here
    DECLARE @date_ok bit; -- weryfikujemy, czy na pewno nadal można kupić studium(trzeba dokonać wpłaty na 3 dni przed
    -- rozpoczęciem)
    SELECT @date_ok = CASE
                        WHEN DATEDIFF(day, BeginningDate, GETDATE()) > 3 THEN 1
                        ELSE 0
                        END
                    FROM
                    StudyMeetings
                    WHERE StudyMeetingID=@StudyMeetingID;

    IF (@date_ok=0)
    BEGIN
        RAISERROR ('Za późno na kupienie tego kursu',16,1) WITH NOWAIT;
    END;
    -- sprawdzamy czy takie studium i taki student istnieją
    IF ((select count(StudyID) from StudyMeetings where StudyMeetingID=@StudyMeetingID ) > 0) AND
        ((select count(StudentID) from Students where StudentID=@StudentID) > 0)
    BEGIN
        INSERT INTO Orders (OrderID, StudentID, Status, AdditionToBasketDate, PaymentHyperlink)
        VALUES (@OrderID, @StudentID, 'Pending', GETDATE(), @PaymentHyperlink);
        INSERT INTO OrderedStudyMeetings(OrderID, StudyMeetingID, HasBeenPaidFor, IsPartOfStudies)
        VALUES (@OrderID, @StudyMeetingID, 0, @isPartOfStudies);
    END
    ELSE
    BEGIN
        RAISERROR ('Nie istnieje Zjazd albo Student o takim ID',16,1) WITH NOWAIT;
    END
END
```

```
ALTER PROCEDURE [dbo].[AddStudyToBasket]
    @OrderID nvarchar(50),
    @StudentID int,
    @StudyID int,
    @PaymentHyperlink nvarchar(MAX)
AS
BEGIN
    SET NOCOUNT ON;
    SET XACT_ABORT ON
    -- Insert statements for procedure here
    -- sprawdzamy, czy takie studium i taki student istnieją
    IF ((select count(StudyID) from Studies where StudyID=@StudyID) > 0) AND
        ((select count(StudentID) from Students where StudentID=@StudentID) > 0)
    BEGIN
        INSERT INTO Orders (OrderID, StudentID, Status, AdditionToBasketDate, PaymentHyperlink)
        VALUES (@OrderID, @StudentID, 'Pending', GETDATE(), @PaymentHyperlink);
        INSERT INTO OrderedStudies (OrderID, StudyID, EntryFeePaid)
        VALUES (@OrderID, @StudyID, 0);
    END
    ELSE
    BEGIN
        RAISERROR ('Nie istnieje Studium albo Student o takim ID',16,1) WITH NOWAIT;
    END
END
```

```
ALTER PROCEDURE [dbo].[AddWebinarToBasket]
    @WebinarID int,
    @StudentID int,
    @OrderID nvarchar(50),
    @PaymentHyperlink nvarchar(MAX)
AS
BEGIN
    SET NOCOUNT ON;
    SET XACT_ABORT ON
    -- Insert statements for procedure here
    -- sprawdzamy, czy taki webinar i taki student istnieją
    IF ((select count(WebinarID) from Webinars where WebinarID=@WebinarID) > 0) AND
        ((select count(StudentID) from Students where StudentID=@StudentID) > 0)
    BEGIN
        INSERT INTO Orders (OrderID, StudentID, Status, AdditionToBasketDate, PaymentHyperlink)
        VALUES (@OrderID, @StudentID, 'Pending', GETDATE(), @PaymentHyperlink);
        INSERT INTO OrderedWebinars (OrderID, WebinarID, HasBeenPaidFor)
        VALUES (@OrderID, @WebinarID, 0);
    END
    ELSE
    BEGIN
        RAISERROR ('Nie istnieje Webinar albo Student o takim ID',16,1) WITH NOWAIT;
    END
END
```

```
ALTER PROCEDURE [dbo].[DeliverTheOrder]
    @order_id nvarchar(50),
    @payment_deferral bit,
    @payment_deferral_reason nvarchar(MAX)
AS
BEGIN
    SET NOCOUNT ON;

    -- Insert statements for procedure here
    DECLARE @current_status nvarchar(50);
    SELECT @current_status = Status
                            from Orders
                            where OrderID=@order_id;
    if (@current_status='Pending')
    BEGIN
        UPDATE Orders
        SET Status='Delivered', OrderDate=GETDATE()
        WHERE OrderID=@order_id;
```

```
        UPDATE OrderedWebinars
        SET PaymentDeferral=@payment_deferral, PaymentDeferralReason=@payment_deferral_reason
        WHERE OrderID=@order_id;

        UPDATE OrderedCourses
        SET PaymentDeferral=@payment_deferral, PaymentDeferralReason=@payment_deferral_reason,
        IsGrantedCertificate=0
        WHERE OrderID=@order_id;

        UPDATE OrderedStudies
        SET PaymentDeferral=@payment_deferral, PaymentDeferralReason=@payment_deferral_reason,
        IsGrantedCertificate=0, FinalExamPassed=0, FailedInternship=0
        WHERE OrderID=@order_id;

        UPDATE OrderedStudyMeetings
        SET PaymentDeferral=@payment_deferral, PaymentDeferralReason=@payment_deferral_reason
        WHERE OrderID=@order_id;
    END;
END
```

```
ALTER PROCEDURE [dbo].[GrantStudentCertificate]
    @student_id int,
    @certificate_hyperlink nvarchar(MAX),
    @study_id int
AS
BEGIN
    SET NOCOUNT ON;
    SET XACT_ABORT ON
    -- Insert statements for procedure here
    -- Najpierw sprawdzamy, czy student zamówił studium o takim @study_id
    DECLARE @ordered_study_exists bit;
    SELECT @ordered_study_exists = CASE
                                    WHEN count(StudyID) > 0 then 1
                                    else 0
                                   END
                                     from OrderedStudies
                                     join Orders on Orders.OrderID=OrderedStudies.OrderID
                                     where Orders.StudentID=@student_id and OrderedStudies.StudyID=@study_id;
    -- Teraz liczymy ilość wszystkich spotkań i ilość niedrobionych absencji danego studenta na danym studium
    DECLARE @total_study_meetings_count decimal;
    SELECT @total_study_meetings_count = count(StudyMeetingID) from StudyMeetings
                                         where StudyID=@study_id;
    DECLARE @absences_count decimal;
    SELECT @absences_count = count(StudyMeetingsAbsences.StudyMeetingID)
                             from StudyMeetingsAbsences
                             join StudyMeetings on StudyMeetings.StudyMeetingID = StudyMeetingsAbsences.StudyMeetingID
                             where StudentID=@student_id and StudyID=@study_id and HasBeenCaughtUp=0;
    -- Sprawdzamy, czy student zdał egzamin końcowy z danego studium i czy zaliczył praktyki
    DECLARE @final_exam_passed bit;
    SELECT @final_exam_passed = FinalExamPassed
                                from OrderedStudies
                                join Orders on Orders.OrderID = OrderedStudies.OrderID
                                where StudyID=@study_id and StudentID=@student_id;
    DECLARE @failed_internship bit;
    SELECT @failed_internship = FailedInternship
                                from OrderedStudies
                                join Orders on Orders.OrderID = OrderedStudies.OrderID
                                where StudyID=@study_id and StudentID=@student_id;
    -- Sprawdzamy dodatkowo, czy student opłacił wszelkie spotkania studyjne
    DECLARE @everything_paid bit;
    SELECT @everything_paid = CASE
                                WHEN COUNT(*) > 0 THEN 0
                                ELSE 1
                              END
                                from OrderedStudies
                                join Orders on Orders.OrderID = OrderedStudies.OrderID
                                join OrderedStudyMeetings on OrderedStudyMeetings.OrderID = Orders.OrderID
                                where StudentID=@student_id and StudyID=@study_id and HasBeenPaidFor=0;
    -- Trzeba jeszcze sprawdzić, czy student uiścił wpisowe
    DECLARE @entry_fee_paid bit;
    SELECT @entry_fee_paid = CASE
                                WHEN EntryFeePaid=1 THEN 1
                                ELSE 0
                             END
                                from OrderedStudies
                                join Orders on Orders.OrderID=OrderedStudies.OrderID
                                where StudentID=@student_id and StudyID=@study_id;
    -- Ostateczna walidacja
    IF (@ordered_study_exists=1 and @total_study_meetings_count > 0 and @absences_count/@total_study_meetings_count<=0.2
        and @final_exam_passed=1 and @failed_internship=0 and @everything_paid=1 and @entry_fee_paid=1)
    BEGIN
        UPDATE OrderedStudies
        SET IsGrantedCertificate=1,
            CertificateHyperlink=@certificate_hyperlink
        FROM OrderedStudies
        join Orders on Orders.OrderID = OrderedStudies.OrderID
        where StudentID=@student_id and StudyID=@study_id;
    END;
    ELSE
    BEGIN
        RAISERROR ('Student nie spełnia kryteriów otrzymania certyfikatu z tego studium',16,1);
    END;
END
```

```
ALTER PROCEDURE [dbo].[InsertEmployees]
    @Email nvarchar(50),
    @Password nvarchar(50),
    @Name nvarchar(50),
    @Surname nvarchar(50),
    @Country nvarchar(50),
    @City nvarchar(50),
    @ZipCode nvarchar(50),
    @Street nvarchar(50),
    @Address nvarchar(50),
    @Phone nvarchar(50),
    @type nvarchar(50)
AS
BEGIN
    insert into Users(Email, Password, Name, Surname, CountryID, CityID, ZipCode, Street, Address, PhoneNumber)
    values (@Email, @Password, @Name, @Surname, (select CountryID from Countries where CountryName = @Country), (select CityID from City where CityName = @City), @ZipCode, @Street, @Address,
@Phone);
    insert into Employees(EmployeeID, type) values ((select UserID from Users where Email = @Email), @type);
END
```

```
ALTER PROCEDURE [dbo].[InsertStudents]
    @Email nvarchar(50),
    @Password nvarchar(50),
    @Name nvarchar(50),
    @Surname nvarchar(50),
    @Country nvarchar(50),
    @City nvarchar(50),
    @ZipCode nvarchar(50),
    @Street nvarchar(50),
    @Address nvarchar(50),
    @Phone nvarchar(50)
AS
BEGIN
    insert into Users(Email, Password, Name, Surname, CountryID, CityID, ZipCode, Street, Address, PhoneNumber)
    values (@Email, @Password, @Name, @Surname, (select CountryID from Countries where CountryName = @Country), (select CityID from City where CityName = @City), @ZipCode, @Street, @Address,
@Phone);
    insert into Students(StudentID) values ((select UserID from Users where Email = @Email));
END
```

```
ALTER PROCEDURE [dbo].[InsertTeachers]
    @Email nvarchar(50),
    @Password nvarchar(50),
    @Name nvarchar(50),
    @Surname nvarchar(50),
    @Country nvarchar(50),
    @City nvarchar(50),
    @ZipCode nvarchar(50),
    @Street nvarchar(50),
    @Address nvarchar(50),
    @Phone nvarchar(50)
AS
BEGIN
    insert into Users(Email, Password, Name, Surname, CountryID, CityID, ZipCode, Street, Address, PhoneNumber)
    values (@Email, @Password, @Name, @Surname, (select CountryID from Countries where CountryName = @Country), (select CityID from City where CityName = @City), @ZipCode, @Street, @Address,
@Phone);
    insert into Teachers(TeacherID) values ((select UserID from Users where Email = @Email));
END
```

```
ALTER PROCEDURE [dbo].[PayForProduct]
    @product_type nvarchar(50),
    @product_id int,
    @student_id int,
    @payment_auth_code nvarchar(50),
    @error nvarchar(MAX)
AS
BEGIN
    SET NOCOUNT ON;

    -- Insert statements for procedure here
    -- Ta procedura jest wywoływana w momencie zatwierdzenia płatności przez naszą aplikację.
    --
    IF (@product_type='webinar')
    BEGIN
        UPDATE OrderedWebinars
        SET HasBeenPaidFor=1, PaymentAuthCode=@payment_auth_code, Error=@error
        FROM OrderedWebinars
        JOIN Orders on OrderedWebinars.OrderID=Orders.OrderID
        WHERE WebinarID=@product_id and StudentID=@student_id;

    END;
    ELSE IF (@product_type='course')
    BEGIN
        UPDATE OrderedCourses
        SET HasBeenPaidFor=1, PaymentAuthCode=@payment_auth_code, Error=@error
        FROM OrderedCourses
        JOIN Orders on OrderedCourses.OrderID=Orders.OrderID
        WHERE CourseID=@product_id and StudentID=@student_id;

    END;
    ELSE IF (@product_type='study')
    BEGIN
        UPDATE OrderedStudies
        SET EntryFeePaid=1, PaymentAuthCode=@payment_auth_code, Error=@error
        FROM OrderedStudies
        JOIN Orders on OrderedStudies.OrderID=Orders.OrderID
        WHERE StudyID=@product_id and StudentID=@student_id;

    END;
    ELSE IF (@product_type='study_meeting')
    BEGIN
        UPDATE OrderedStudyMeetings
        SET HasBeenPaidFor=1, PaymentAuthCode=@payment_auth_code, Error=@error
        FROM OrderedStudyMeetings
        JOIN Orders on OrderedStudyMeetings.OrderID=Orders.OrderID
        WHERE StudyMeetingID=@product_id and StudentID=@student_id;

    END;
    ELSE
    BEGIN
        RAISERROR ('Podano bledny typ produktu',16,1);
    END
END
```

```
ALTER PROCEDURE [dbo].[RegisterModuleAbsence]
    @module_id int,
    @student_id int
AS
BEGIN
    SET NOCOUNT ON;

    -- Insert statements for procedure here
    -- Sprawdzamy, czy dany student zamówił kurs z danym modułem
    IF ((SELECT COUNT(*) FROM OrderedCourses
                        JOIN Courses on Courses.CourseID=OrderedCourses.CourseID
                        JOIN CoursesModules on Courses.CourseID=CoursesModules.CourseID
                        JOIN Orders on Orders.OrderID = OrderedCourses.CourseID
                        WHERE ModuleID=@module_id AND StudentID=@student_id) > 0)
    BEGIN
        INSERT INTO ModulesAbsences (ModuleID, StudentID)
        VALUES (@module_id, @student_id);
    END;
END
```

```
ALTER PROCEDURE [dbo].[RegisterStudyMeetingAbsence]
    @student_id int,
    @study_meeting_id int
AS
BEGIN
    SET NOCOUNT ON;

    -- Insert statements for procedure here
    -- sprawdzamy, czy dany student zamówił dane spotkanie studyjne
    IF ((SELECT COUNT(*) FROM OrderedStudyMeetings
                        JOIN Orders on Orders.OrderID = OrderedStudyMeetings.OrderID
                        WHERE StudyMeetingID=@study_meeting_id AND StudentID=@student_id) > 0)
    BEGIN
        INSERT INTO StudyMeetingsAbsences (StudyMeetingID, StudentID, HasBeenCaughtUp)
        VALUES (@study_meeting_id, @student_id, 0);
    END
END
```

```
ALTER PROCEDURE [dbo].[InsertCourses]
    @Name NVARCHAR(50),
    @Price MONEY,
    @StartDate DATETIME,
    @Duration INT,
    @ModulesCount INT,
    @Limit INT,
    @Language NVARCHAR(50),
    @TranslatorName NVARCHAR(50),
    @TranslatorSurname NVARCHAR(50),
    @Hyperlink NVARCHAR(100)
AS
BEGIN
    -- sprawdzamy czy jezyk istnieje
    if not exists (select * from Languages where Language = @Language)
        begin
            raiserror('Język nie istnieje', 16, 1)
        end
    else
        begin
            -- sprawdzamy czy data jest wieksza od dzisiejszej
            if @StartDate <= GETDATE()
                begin
                    raiserror('Data startu musi byc po dniu dzisiajeszym', 16, 1)
                end
            else
                begin
                    insert into Courses (Name, Price, StartDate, Duration, ModulesCount, Limit, LanguageID, TranslatorName, TranslatorSurname, Hyperlink)
                    values (@Name, @Price, @StartDate, @Duration, @ModulesCount, @Limit, (select LanguageID from Languages where Language = @Language), @TranslatorName, @TranslatorSurname,
@Hyperlink)
                end
        end
END
```

```
ALTER PROCEDURE [dbo].[InsertStudieMeetings]
    @Study nvarchar(50),
    @Type nvarchar(50),
    @TeacherID int,
    @Language nvarchar(50),
    @MeetingName nvarchar(50),
    @MeetingPrice money,
    @MeetingPriceForStudents money,
    @BeginningDate datetime,
    @Duration time,
    @Syllabus nvarchar(max),
    @Limit int,
    @TranslatorName nvarchar(50),
    @TranslatorSurname nvarchar(50)
AS
BEGIN
    if not exists (select * from Teachers where TeacherId = @TeacherID)
        begin
            raiserror('Nauczyciel nie istnieje', 16, 1)
        end
    else if not exists (select * from Languages where Language = @Language)
        begin
            raiserror('Język nie istnieje', 16, 1)
        end
    else if not exists (select * from Studies where FieldOfStudy = @Study)
        begin
            raiserror('Kierunek nie istnieje', 16, 1)
        end
    else if @BeginningDate <= getdate()
        begin
            raiserror('Data rozpoczęcia musi być późniejsza niż dzisiejsza', 16, 1)
        end
    else
        begin
            insert into StudyMeetings (StudyID, Type, TeacherID, LanguageID, MeetingName, MeetingPrice, MeetingPriceForStudents, BeginningDate, Duration, MeetingSyllabusDescription, SeatCount,
TranslatorName, TranslatorSurname)
            values ((select StudyID from Studies where FieldOfStudy = @Study), @Type, @TeacherID, (select LanguageID from Languages where Languages.LanguageID = @Language), @MeetingName,
@MeetingPrice, @MeetingPriceForStudents, @BeginningDate, @Duration, @Syllabus, @Limit, @TranslatorName, @TranslatorSurname)
        end
END
```

```
ALTER PROCEDURE [dbo].[InsertStudies]
    @FieldOfStudy nvarchar(50),
    @Duration int,
    @EntryFee money,
    @AcademicYear int,
    @Limit int,
    @Syllabus nvarchar(max),
    @InternshipName nvarchar(50),
    @InternshipStartDate datetime
AS
BEGIN
    if @AcademicYear >= YEAR(getdate())
        begin
            insert into Studies (FieldOfStudy, Duration, EntryFee, AcademicYear, Limit, SyllabusDescription, InternshipName, InternshipStartDate)
            values (@FieldOfStudy, @Duration, @EntryFee, @AcademicYear, @Limit, @Syllabus, @InternshipName, @InternshipStartDate)
        end
END
```

```
ALTER PROCEDURE [dbo].[InsertWebinars]
    @TeacherId INT,
    @Name NVARCHAR(50),
    @Price MONEY,
    @Hyperlink NVARCHAR(100),
    @Language NVARCHAR(50),
    @TranslatorName NVARCHAR(50),
    @TranslatorSurname NVARCHAR(50),
    @StartDate DATETIME,
    @Duration TIME
AS
BEGIN
    -- sprawdzamy czy nauczyciel istnieje
    if not exists (select * from Teachers where TeacherId = @TeacherId)
        begin
            raiserror('Nauczyciel nie istnieje', 16, 1)
        end
    else
        begin
            -- sprawdzamy czy jezyk istnieje
            if not exists (select * from Languages where Language = @Language)
                begin
                    raiserror('Język nie istnieje', 16, 1)
                end
            else
                begin
                    -- sprawdzamy czy data jest wieksza od dzisiejszej
                    if @StartDate <= GETDATE()
                        begin
                            raiserror('Data startu musi byc po dniu dzisiajeszym', 16, 1)
                        end
                    else
                        begin
                            insert into Webinars (TeacherId, Name, Price, Hyperlink, LanguageID, TranslatorName, TranslatorSurname, StartDate, Duration)
                            values (@TeacherId, @Name, @Price, @Hyperlink, (select LanguageID from Languages where Language = @Language), @TranslatorName, @TranslatorSurname, @StartDate,
@Duration)
                        end
                end
        end
END
```