PART 1: Table List

Table Name	Field	Date Type
Student	StudentID (PK)	int
	StudentFirstName	varchar
	StudentLastName	varchar
	StudentAddress	varchar

Table Name	Field	Date Type
Course	CourseID (PK)	int
	CourseName	varchar
	CourseDescription	vcarchar

Table Name	Field	Date Type
StudentCourse	StudentID (PK, FK)	int
	CourseID (PK, FK)	int

Table Name	Field	Date Type
Payment	PaymentID (PK)	int
	StudentID (FK)	int
	PaymentType	varchar
	PaymentDate	datetime

Table Name	Field	Date Type
Instructor	InstructorID (PK)	int
	InstructorFirstName	varchar
	InstructorLastName	varchar

Table Name	Field	Date Type
Location	LocationID (PK)	int
	LocationName	varchar

Table Name	Field	Date Type
Advisor	AdvisorID (PK)	int
	AdvisorFirstName	varchar
	AdvisorLastName	varchar

PART 2: Physical Model.

Student Table.

USE [CIS3300_TranP]

GO

/****** Object: Table [dbo].[Student]   Script Date: 10/29/2023 3:20:18 PM ******/

SET ANSI_NULLS ON

GO

SET QUOTED_IDENTIFIER ON

GO

CREATE TABLE [dbo].[Student](

    [StudentID] [int] NOT NULL,

    [StudentFirstName] [varchar](50) NOT NULL,

    [StudentLastName] [varchar](50) NOT NULL,

    [StudentAddress] [varchar](max) NOT NULL,

 CONSTRAINT [PK_Student] 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] TEXTIMAGE_ON [PRIMARY]

GO
```

Course Table.

USE [CIS3300_TranP]

GO

/****** Object: Table [dbo].[Course]   Script Date: 10/29/2023 3:21:08 PM ******/

SET ANSI_NULLS ON

GO

SET QUOTED_IDENTIFIER ON

GO

CREATE TABLE [dbo].[Course](

    [CourseID] [int] NOT NULL,

    [CourseName] [varchar](50) NOT NULL,

    [CourseDescription] [varchar](max) NOT NULL,

 CONSTRAINT [PK_Course] 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] TEXTIMAGE_ON [PRIMARY]

GO

StudentCourse Table.

```sql
USE [CIS3300_TranP]

GO


/****** Object:  Table [dbo].[StudentCourse]    Script Date: 10/29/2023 3:22:15 PM ******/

SET ANSI_NULLS ON

GO


SET QUOTED_IDENTIFIER ON

GO


CREATE TABLE [dbo].[StudentCourse](

      [StudentID] [int] NOT NULL,

      [CourseID] [int] NOT NULL,

 CONSTRAINT [PK_StudentCourse] PRIMARY KEY CLUSTERED

(

      [StudentID] 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]

GO
```

```sql
ALTER TABLE [dbo].[StudentCourse] WITH CHECK ADD CONSTRAINT [FK_StudentCourse_Course] FOREIGN KEY([CourseID])

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

GO


ALTER TABLE [dbo].[StudentCourse] CHECK CONSTRAINT [FK_StudentCourse_Course]

GO


ALTER TABLE [dbo].[StudentCourse] WITH CHECK ADD CONSTRAINT [FK_StudentCourse_Student] FOREIGN KEY([StudentID])

REFERENCES [dbo].[Student] ([StudentID])

GO


ALTER TABLE [dbo].[StudentCourse] CHECK CONSTRAINT [FK_StudentCourse_Student]

GO
```

Payment Table.

```sql
USE [CIS3300_TranP]

GO


/****** Object:  Table [dbo].[Payment]    Script Date: 10/29/2023 3:23:32 PM ******/

SET ANSI_NULLS ON

GO


SET QUOTED_IDENTIFIER ON

GO


CREATE TABLE [dbo].[Payment](

	[PaymentID] [int] NOT NULL,

	[StudentID] [int] NOT NULL,

	[PaymentType] [varchar](50) NOT NULL,

	[PaymentDate] [datetime] NOT NULL,

 CONSTRAINT [PK_Payment_1] PRIMARY KEY CLUSTERED

(

	[PaymentID] 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].[Payment] WITH CHECK ADD CONSTRAINT [FK_Payment_Student] FOREIGN KEY([StudentID])

REFERENCES [dbo].[Student] ([StudentID])

GO

ALTER TABLE [dbo].[Payment] CHECK CONSTRAINT [FK_Payment_Student]

GO

Instructor Table.

USE [CIS3300_TranP]

GO

/****** Object: Table [dbo].[Instructor]   Script Date: 10/29/2023 3:24:11 PM ******/

SET ANSI_NULLS ON

GO

SET QUOTED_IDENTIFIER ON

GO

CREATE TABLE [dbo].[Instructor](

     [InstructorID] [int] NOT NULL,

     [InstructorFirstName] [varchar](50) NOT NULL,

     [InstructorLastName] [varchar](50) NOT NULL,

 CONSTRAINT [PK_Instructor] PRIMARY KEY CLUSTERED

(

     [InstructorID] 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

Location Table.

USE [CIS3300_TranP]

GO

/****** Object: Table [dbo].[Location]   Script Date: 10/29/2023 3:24:42 PM ******/

SET ANSI_NULLS ON

GO

SET QUOTED_IDENTIFIER ON

GO

CREATE TABLE [dbo].[Location](

     [LocationID] [int] NOT NULL,

     [LocationName] [varchar](50) NOT NULL,

 CONSTRAINT [PK_Location] PRIMARY KEY CLUSTERED

(

     [LocationID] 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

Advisor Table.

USE [CIS3300_TranP]

GO

/****** Object: Table [dbo].[Advisor]   Script Date: 10/29/2023 3:25:09 PM ******/

SET ANSI_NULLS ON

GO

SET QUOTED_IDENTIFIER ON

GO

CREATE TABLE [dbo].[Advisor](

    [AdvisorID] [int] NOT NULL,

    [AdvisorFirstName] [varchar](50) NOT NULL,

    [AdvisorLastName] [varchar](50) NOT NULL,

 CONSTRAINT [PK_Advisor] PRIMARY KEY CLUSTERED

(

    [AdvisorID] 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