Tasks description:  
  
https://softuni.bg/trainings/resources/officedocument/10276/exercise-problem-descriptions-databases-basics-sqlserver-september-2016  
  
01.  
CREATE TABLE Persons(  
PersonID INT NOT NULL PRIMARY KEY IDENTITY(1,1),  
FirstName NVARCHAR(50),   
Salary DECIMAL(10,2),  
PassportID INT UNIQUE  
)

CREATE TABLE Passports(  
PassportID INT NOT NULL PRIMARY KEY IDENTITY(1,1),  
PassportNumber NVARCHAR(50)  
)

ALTER TABLE Persons  
ADD CONSTRAINT FK\_Persons\_Passports FOREIGN KEY(PassportID) REFERENCES Passports(PassportID)

02.  
CREATE TABLE Manufacturers(  
ManufacturerID INT NOT NULL PRIMARY KEY IDENTITY(1,1),  
Name NVARCHAR(50),   
EstablishedOn Date  
)

CREATE TABLE Models(  
ModelID INT NOT NULL PRIMARY KEY IDENTITY(1,1),  
Name NVARCHAR(50),  
ManufacturerID INT  
)

ALTER TABLE Models  
ADD CONSTRAINT FK\_Models\_Manufacturers FOREIGN KEY(ManufacturerID) REFERENCES Manufacturers(ManufacturerID)  
  
03.  
CREATE TABLE Students(  
StudentID INT NOT NULL PRIMARY KEY IDENTITY(1,1),  
Name NVARCHAR(50)  
)

CREATE TABLE Exams(  
ExamID INT NOT NULL PRIMARY KEY IDENTITY(1,1),  
Name NVARCHAR(50)  
)

CREATE TABLE StudentsExams(  
ExamID INT,  
StudentID INT,

CONSTRAINT PK\_StudentsExams PRIMARY KEY(ExamID, StudentID),  
CONSTRAINT FK\_StudentsExams\_Exams FOREIGN KEY(ExamID) REFERENCES Exams(ExamID),  
CONSTRAINT FK\_StudentsExams\_Students FOREIGN KEY(StudentID) REFERENCES Students(StudentID),  
)  
  
04.  
CREATE TABLE Teachers(  
TeacherID INT NOT NULL PRIMARY KEY IDENTITY(1,1),  
Name NVARCHAR(50),  
ManagerID INT,   
CONSTRAINT FK\_Teachers\_Teachers FOREIGN KEY(ManagerID) REFERENCES Teachers(TeacherID),  
)  
  
05.  
CREATE TABLE ItemTypes(  
ItemTypeID INT NOT NULL PRIMARY KEY IDENTITY(1,1),  
Name VARCHAR(50)  
)

CREATE TABLE Items(  
ItemID INT NOT NULL PRIMARY KEY IDENTITY(1,1),  
Name VARCHAR(50),  
ItemTypeID INT  
  
CONSTRAINT FK\_Items\_ItemTypes FOREIGN KEY(ItemTypeID) REFERENCES ItemTypes(ItemTypeID),  
)

CREATE TABLE Cities(CityID INT NOT NULL PRIMARY KEY IDENTITY(1,1),  
Name VARCHAR(50)  
)

CREATE TABLE Customers(  
CustomerID INT NOT NULL PRIMARY KEY IDENTITY(1,1),  
Name VARCHAR(50),  
Birthday Date,  
CityID INT  
)

ALTER TABLE Customers  
ADD CONSTRAINT FK\_Customers\_Cities FOREIGN KEY(CityID) REFERENCES Cities(CityID)

CREATE TABLE Orders(  
OrderID INT NOT NULL PRIMARY KEY IDENTITY(1,1),  
CustomerID INT  
)

CREATE TABLE OrderItems(  
OrderID INT,  
ItemID INT

CONSTRAINT PK\_OrderItems PRIMARY KEY(OrderID, ItemID),  
CONSTRAINT FK\_OrderItems\_Orders FOREIGN KEY(OrderID) REFERENCES Orders(OrderID),  
CONSTRAINT FK\_OrderItems\_Items FOREIGN KEY(ItemID) REFERENCES Items(ItemID),  
)

ALTER TABLE Orders  
ADD CONSTRAINT FK\_Orders\_Customers FOREIGN KEY(CustomerID) REFERENCES Customers(CustomerID)  
  
06.  
CREATE TABLE Majors(  
MajorID INT NOT NULL PRIMARY KEY IDENTITY(1,1),  
Name NVARCHAR(50),  
)

CREATE TABLE Students(  
StudentID INT NOT NULL PRIMARY KEY IDENTITY(1,1),  
StudentNumber NVARCHAR(50),  
StudentName NVARCHAR(50),  
MajorID INT

CONSTRAINT FK\_Students\_Majors FOREIGN KEY(MajorID) REFERENCES Majors(MajorID),  
)

CREATE TABLE Payments(  
PaymentID INT NOT NULL PRIMARY KEY IDENTITY(1,1),  
PaymentDate Date,  
PaymentAmount DECIMAL(10,2),  
StudentID INT,

CONSTRAINT FK\_Payments\_Students FOREIGN KEY(StudentID) REFERENCES Students(StudentID),  
)

CREATE TABLE Subjects(  
SubjectID INT NOT NULL PRIMARY KEY IDENTITY(1,1),  
SubjectName VARCHAR(50)  
)

CREATE TABLE Agenda(  
StudentID INT,  
SubjectID INT

CONSTRAINT PK\_Agenda PRIMARY KEY(StudentID, SubjectID),  
CONSTRAINT FK\_Agenda\_Students FOREIGN KEY(StudentID) REFERENCES Students(StudentID),  
CONSTRAINT FK\_Agenda\_Subjects FOREIGN KEY(SubjectID) REFERENCES Subjects(SubjectID),  
)