Create table University (

UniversityId int,

UniversityName nvarchar(50),

Address nvarchar (50),

Constraint university\_pk primary key (UniversityId )

);

create table Student(

Student\_id int,

UniversityId int,

Student\_Name nvarchar(50),

Student\_gpa decimal,

Constraint Student\_fk Foreign key (UniversityId) References University(UniversityId)

);

Insert into University values(1, 'University of Georgia', 'Pekini');

Insert into University values(2, 'sample uni1', 'sample address1');

Insert into University values(3, 'sample uni2', 'sample address2');

Insert into University values(4, 'sample uni3', 'sample address3');

Insert into University values(5, 'sample uni4', 'sample address4');

Insert into Student values(1, 5, 'john', 3.75);

Insert into Student values(2, 2, 'jack', 2.75);

Insert into Student values(3, 3, 'Mari', 2.50);

Insert into Student values(4, 4, 'Diana', 1.50);

Insert into Student values(5, 4, 'Tako', 3);

Insert into Student values(6, 4, 'teona', 4);

--4

Select \* from University join Student on University.UniversityId = Student.UniversityId;

--5

Select University.UniversityName, Student.Student\_gpa from Student

join University on University.UniversityId = Student.UniversityId

group by University.UniversityName,Student.Student\_gpa

Having Avg(Student\_gpa) > 3;

-- 6

-- part1

select Student.Student\_Name from Student

where Student.Student\_gpa >(Select AVG(Student.Student\_gpa)from Student);

--part2

select UniversityName, Student.Student\_Name from Student

join University on Student.UniversityId = University.UniversityId

where Student.Student\_gpa > (Select AVG(Student\_gpa) from Student)

--7

Create or alter procedure addstudent @student\_id int, @university\_id int, @student\_name nvarchar(50), @Student\_gpa decimal

AS

BEGIN

Insert into Student values(@student\_id,@university\_id, @student\_name, @Student\_gpa)

END;

EXEC addstudent @student\_id = 1902028, @university\_id = 1, @student\_name = 'Peyman', @Student\_gpa = 2.75

Create or alter procedure addUniversity @University\_id int, @University\_name nvarchar(50), @Address nvarchar(50)

AS

BEGIN

Insert into University values(@university\_id, @University\_name, @Address)

END;

EXEC addUniversity @university\_id = 7, @University\_name = 'ILIAVA University', @Address = 'some address'

--8

Create or alter Function GpaAveragCalculator ()

Returns decimal

As

BEGIN

Declare @average decimal;

Select @average = AVG(Student.Student\_gpa) from Student

return @average

END;

Select dbo.GpaAveragCalculator() as average

--9

create table UniAverageGpa(

UniversityId int,

University\_Name nvarchar(50),

University\_avg\_gpa decimal

);

Create or alter Trigger newRecord

on Student

after Insert

AS

BEGIN

Declare @u\_id int, @u\_name nvarchar(50), @avg\_gpa decimal

Select @u\_id = UniversityId from inserted

Select @u\_name = UniversityName , @avg\_gpa = AVG(Student\_gpa) from University,Student

where University.Universityid = @u\_id group by UniversityName

if Exists (Select 1 from UniAverageGpa where UniversityId = @u\_id)

Update UniAverageGpa set University\_avg\_gpa = @avg\_gpa where UniversityId = @u\_id

else insert into UniAverageGpa values (@u\_id , @u\_name, @avg\_gpa)

END;

insert into Student values(199923, 7, 'newPeyman', 2)

insert into Student values(189923, 6, 'newPeyman', 3)

select \* from University;

select \* from UniAverageGpa;;