FUNCTION

CREATE FUNTION function\_name ( [@parameter\_name parameter\_data\_type] ) RETURNS [return Data-­‐type] /\*Returns có ‘s’ \*/

AS **Begin**

…….

return ([scalar value])

**End**

CREATE FUNTION function\_name ( [@parameter\_name parameter\_data\_type] )

RETURNS **table**

AS

return [select command]

1. Write the function that returns the average score of @StudentID

create function GetGPA(@studentID varchar(10))

returns int

as begin

declare @gpa float

select @gpa=sum(r.mark\*s.credits)/sum(s.credits)

from result r, subject s

where r.subjectID=s.ID

and r.studentID=@studentID

and r.times >= all (select r1.times

from result r1 where r1.studentID= r.studentID and

r1.subjectID= r.subjectID)

return @gpa

end

declare @a float

set @a=dbo.GetGPA('HV000001 ')

print @a

1. Use the above function to write the query for showing a table consisting of

2 columns StudentID and Average Score

Select ID, dbo.getGPA(ID) as ‘GPA’ from student

1. Use the above function to write the query for showing the list of students whose GPAs

are greater than 7.

Select s.\* from student where dbo.getGPA(ID)>7

1. Add the column named Average Score to the table of student. Then, use the above function to write the query for updating the average scores of all students.

Alter table student

Add Average\_Score float

Update student set Average\_Score=dbo. getGPA(ID)

1. Write a function that returns the student list of @ClassID.

CREATE function GetStuList( @classID varchar(10))

RETURNS table

AS

return select ID,name from student

where classID=@classID

select P.name from dbo.GetStuList('LH000001 ')

All the functions that SQL supplies

<https://www.w3schools.com/sql/sql_ref_sqlserver.asp>