**Практическое задание к модулю 2 «Пользовательские функции»**

1. Написать функцию, подсчитывающую среднее арифметическое трех величин.
2. Написать функцию, вычисляющую текущий возраст сотрудников в зависимости от их даты рождения.

use Assel\_tour

Create function avgPrice ()

returns table

as

return (

Select avg(к.сумма) as avgPriceTour

from Касса к

)

Вызов:

Select \* from dbo.avgPrice()

use assel\_database

select \* from teachers

Create function teacherAge1 ()

returns @Teacher\_Age1 table (teacher\_name varchar(25), age\_year int, age\_month int, age\_day int)

as

begin

Declare @temp\_day int

Declare @temp\_month int

Declare @temp\_year int

if

( Select day(GETDATE()) - day(t.birthdat\_teach) from teachers t)>0

and

( Select month(GETDATE()) - month(t.birthdat\_teach) from teachers t)>0

begin

set

@temp\_day = ( Select day(GETDATE()) - day(t.birthdat\_teach) from teachers t);

set

@temp\_month = (Select month(GETDATE()) - month(t.birthdat\_teach) from teachers t);

set

@temp\_year = (Select year(GETDATE()) - year(t.birthdat\_teach) from teachers t);

end

else

begin

if

( Select day(GETDATE()) - day(t.birthdat\_teach) from teachers t)>0

and

( Select month(GETDATE()) - month(t.birthdat\_teach) from teachers t)<0

begin

set

@temp\_day = ( Select day(GETDATE()) - day(t.birthdat\_teach) from teachers t);

set

@temp\_month = 12 + (Select month(GETDATE()) - month(t.birthdat\_teach) from teachers t);

set

@temp\_year = (Select year(GETDATE()) - year(t.birthdat\_teach) - 1 from teachers t);

end

else

begin

if

( Select day(GETDATE()) - day(t.birthdat\_teach) from teachers t)<0

and

( Select month(GETDATE()) - month(t.birthdat\_teach) from teachers t)>0

begin

set

@temp\_day = 30 + ( Select day(GETDATE()) - day(t.birthdat\_teach) from teachers t);

set

@temp\_month = (Select month(GETDATE()) - month(t.birthdat\_teach)-1 from teachers t);

set

@temp\_year = (Select year(GETDATE()) - year(t.birthdat\_teach) from teachers t);

end

end

set

@temp\_day = 30 + ( Select day(GETDATE()) - day(t.birthdat\_teach) from teachers t);

set

@temp\_month = (Select month(GETDATE()) - month(t.birthdat\_teach)-1 from teachers t);

set

@temp\_year = (Select year(GETDATE()) - year(t.birthdat\_teach)-1 from teachers t);

end;

insert @Teacher\_Age1

Select t.teacher\_name, @temp\_year, @temp\_month, @temp\_day

from teachers t

return

end

Select \* from dbo.teacherAge1 ()