

## Задание1.1:

```

--
create function HumanResources.getcount(@GroupName nvarchar(50))
returns int as
begin
    return(select count(*) from HumanResources.Department where HumanResources.Department.GroupName = @GroupName)
end;
go

select HumanResources.getcount ('Manufacturing');
go

/*Создайте inline table-valued функцию, которая будет принимать в качестве входного
параметра id отдела (HumanResources.Department.DepartmentID), а возвращать 3 самых
старших сотрудника, которые начали работать в отделе с 2005 года.
*/
create function HumanResources.gettemp(@DepartmentID int)
returns table as
return
(
    select top(3) HumanResources.Employee.*
    from HumanResources.Employee
    join HumanResources.EmployeeDepartmentHistory on HumanResources.Employee.BusinessEntityID = HumanResources.EmployeeDepartmentHistory.BusinessEntityID
    where (HumanResources.EmployeeDepartmentHistory.DepartmentID = @DepartmentID and (YEAR(HumanResources.EmployeeDepartmentHistory.StartDate) - 2005) >= 0)
    order by HumanResources.Employee.BirthDate
)

```

Зависимости объектов - Department

Выбор страницы

Общие

Скрипт Справка

☒ Объекты, зависящие от [Department]

☐ Объекты, от которых зависит [Department]

Зависимости

- Department
  - EmployeeDepartmentHistory
  - getcount

Результаты

BusinessEntityID	NationalIDNumber
274	502097814
287	982310417
277	615389812

## Задание 1.2:

```

create function HumanResources.gettemp(@DepartmentID int)
returns table as
return
(
    select top(3) HumanResources.Employee.*
    from HumanResources.Employee
    join HumanResources.EmployeeDepartmentHistory on HumanResources.Employee.BusinessEntityID = HumanResources.EmployeeDepartmentHistory.BusinessEntityID
    where (HumanResources.EmployeeDepartmentHistory.DepartmentID = @DepartmentID and (YEAR(HumanResources.EmployeeDepartmentHistory.StartDate) - 2005) >= 0)
    order by HumanResources.Employee.BirthDate
);
go

select * from HumanResources.gettemp(3);
go

/*Вызовите функцию для каждого отдела, применив оператор CROSS APPLY. Вызовите
функцию для каждого отдела, применив оператор OUTER APPLY.
*/

```

Зависимости объектов - EmployeeDepartmentHistory

Выбор страницы

Общие

Скрипт Справка

☒ Объекты, зависящие от [EmployeeDepartmentHistory]

☐ Объекты, от которых зависит [EmployeeDepartmentHistory]

Зависимости

- EmployeeDepartmentHistory
  - gettemp
  - vEmployeeDepartmentHistory

Результаты

BusinessEntityID	NationalIDNumber	LoginID	OrganizationNode	OrganizationLevel	JobTitle	BirthDate	MaritalStatus
274	502097814	adventure-works\stephen0	0x9560	2	North American Sales Manager	1945-11-17	M
287	982310417	adventure-works\amy0	0x95E0	2	European Sales Manager	1951-10-22	M
277	615389812	adventure-works\jillian0	0x956F	3	Sales Representative	1956-09-29	S

### Задание 1.3:

```

/*
select * from HumanResources.Department CROSS APPLY HumanResources.getemp(HumanResources.Department.DepartmentID);
select * from HumanResources.Department OUTER APPLY HumanResources.getemp(HumanResources.Department.DepartmentID);
go
*/
--Измените созданную inline table-valued функцию, сделав ее multistatement table-valued
(предварительно сохранив для проверки код создания inline table-valued функции).
*/

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Результаты Сообщения

(Отсутствует имя столбца)

	BusinessEntityID	NationalIDNumber	LoginID	OrganizationNode	OrganizationLevel	JobTitle	BirthDate	MaritalStatus	Gender	HireDate	SalariedFlag	VacationHours	SickLeaveHours	CurrentFlag
1	274	502097814	adventure-works\stephen0	0x9560	2	North American Sales Manager	1945-11-17	M	M	2005-02-04	1	14	27	1
2	287	982310417	adventure-works\amy0	0x95E0	2	European Sales Manager	1951-10-22	M	F	2006-05-18	1	21	30	1
3	277	615389812	adventure-works\jillian0	0x956F	3	Sales Representative	1956-09-29	S	F	2005-07-01	1	24	32	1

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	DepartmentID	Name	GroupName	ModifiedDate	BusinessEntityID	NationalIDNumber	LoginID	OrganizationNode	OrganizationLevel	JobTitle	BirthDate	MaritalStatus	Gender	HireD
7	3	Sales	Sales and Marketing	2002-06-01 00:00:00.000	277	615389812	adventure-works\jillian0	0x956F	3	Sales Represe...	1956-09-29	S	F	2005
8	4	Marketing	Sales and Marketing	2002-06-01 00:00:00.000	20	323403273	adventure-works\wanid...	0x6C20	2	Marketing Assi...	1969-04-17	M	F	2005
9	4	Marketing	Sales and Marketing	2002-06-01 00:00:00.000	19	52541318	adventure-works\many2	0x6BC0	2	Marketing Assi...	1972-03-01	S	F	2005
10	4	Marketing	Sales and Marketing	2002-06-01 00:00:00.000	250	895209680	adventure-works\sheela0	0x85EB	3	Purchasing Ma...	1972-03-13	S	F	2005
11	5	Purchasing	Inventory Management	2002-06-01 00:00:00.000	261	280633567	adventure-works\reinout0	0x85EBAE	4	Purchasing Ass...	1972-02-18	M	M	2005
12	5	Purchasing	Inventory Management	2002-06-01 00:00:00.000	260	437296311	adventure-works\lannett...	0x85EBAA	4	Purchasing Ass...	1972-03-01	M	F	2005
13	5	Purchasing	Inventory Management	2002-06-01 00:00:00.000	250	895209680	adventure-works\sheela0	0x85EB	3	Purchasing Ma...	1972-03-13	S	F	2005
14	8	Production...	Manufacturing	2002-06-01 00:00:00.000	224	621209647	adventure-works\william0	0x7BDA	3	Scheduling Ass...	1975-12-08	M	M	2003

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	DepartmentID	Name	GroupName	ModifiedDate	BusinessEntityID	NationalIDNumber	LoginID	OrganizationNode	OrganizationLevel	JobTitle	BirthDate	MaritalStatus	Gender	HireD
1	1	Engineering	Research and Development	2002-06-01 00:00:00.000	15	56920285	adventure-works\sharon0	0x5AE7	3	Design Engineer	1955-06-03	M	F	2005
2	1	Engineering	Research and Development	2002-06-01 00:00:00.000	14	42487730	adventure-works\micha...	0x5AE5	3	Senior Design ...	1973-07-17	S	M	2005
3	2	Tool Design	Research and Development	2002-06-01 00:00:00.000	11	974026903	adventure-works\iovidiu0	0x5AE3	3	Senior Tool De...	1972-02-18	S	M	2005
4	2	Tool Design	Research and Development	2002-06-01 00:00:00.000	13	486228782	adventure-works\janice0	0x5AE368	4	Tool Designer	1983-06-29	M	F	2005
5	3	Sales	Sales and Marketing	2002-06-01 00:00:00.000	274	502097814	adventure-works\stephe...	0x9560	2	North America...	1945-11-17	M	M	2005
6	3	Sales	Sales and Marketing	2002-06-01 00:00:00.000	287	982310417	adventure-works\amy0	0x95E0	2	European Sale...	1951-10-22	M	F	2006
7	3	Sales	Sales and Marketing	2002-06-01 00:00:00.000	277	615389812	adventure-works\jillian0	0x956F	3	Sales Represe...	1956-09-29	S	F	2005
8	4	Marketing	Sales and Marketing	2002-06-01 00:00:00.000	20	323403273	adventure-works\wanid...	0x6C20	2	Marketing Assi...	1969-04-17	M	F	2005
9	4	Marketing	Sales and Marketing	2002-06-01 00:00:00.000	19	52541318	adventure-works\man2	0x6BC0	2	Marketing Assi...	1972-03-01	S	F	2005

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Запрос завершен с ошибками.

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### Задание 1.4:

```

--Изменить созданный запрос, добавив:
HumanResources.Employee.VacationHours,
HumanResources.Employee.SickLeaveHours,
HumanResources.Employee.CurrentFlag,
HumanResources.Employee.rowguid,
HumanResources.Employee.ModifiedDate
from HumanResources.Employee
join HumanResources.EmployeeDepartmentHistory on HumanResources.Employee.BusinessEntityID = HumanResources.EmployeeDepartmentHistory.BusinessEntityID
where (HumanResources.EmployeeDepartmentHistory.DepartmentID = @DepartmentID) and (YEAR(HumanResources.EmployeeDepartmentHistory.StartDate) = 2005)
order by HumanResources.Employee.BirthDate
return
go
end;
go
select * from HumanResources.getemp(3);
go
select * from HumanResources.getempv2(3);
go

```

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Результаты Сообщения

	BusinessEntityID	NationalIDNumber	LoginID	OrganizationNode
1	274	502097814	adventure-works\stephen0	0x9560
2	277	615389812	adventure-works\jillian0	0x956F
3	282	399771412	adventure-works\josé1	0x957440

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	BusinessEntityID	NationalIDNumber	LoginID	OrganizationNode
1	274	502097814	adventure-works\stephen0	0x9560
2	277	615389812	adventure-works\jillian0	0x956F
3	282	399771412	adventure-works\josé1	0x957440

<

Запрос завершен с ошибками.

Зависимости объектов - EmployeeDepartmentHistory

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Общие

Скрыт Справка

☒ Объекты, зависящие от [EmployeeDepartmentHistory]

☐ Объекты, от которых зависит [EmployeeDepartmentHistory]

Зависимости

- EmployeeDepartmentHistory
  - getemp
  - getempv2
  - vEmployeeDepartmentHistory

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