Pivot

--- 1 ---

drop table if exists #Cost\_Sorted\_By\_Production\_Days

select DaysToManufacture, avg(StandardCost) AS AverageCost

into #Cost\_Sorted\_By\_Production\_Days

from production.product

group by DaysToManufacture

declare @days varchar(200) = ''

select @days = @days + CONCAT(',[', DaysToManufacture, '] ')

from #Cost\_Sorted\_By\_Production\_Days

set @days = (select stuff( @days ,1,1, '') )

DECLARE @SQL nvarchar(400) = ''

set @SQL = 'SELECT ''AverageCost'' AS Cost\_Sorted\_By\_Production\_Days,\*

from #Cost\_Sorted\_By\_Production\_Days

PIVOT

(

AVG(AverageCost) FOR DaysToManufacture IN ( ' + @days + ')

) AS PivotTable;'

exec (@SQL)

--- 2 ---

DROP TABLE IF EXISTS #TempEmployee

select BusinessEntityID, YEAR(BirthDate) AS YearOfBirth, Gender

into #TempEmployee

from HumanResources.Employee

where YEAR(BirthDate) between 1980 and 1990

Drop table if exists #years

select distinct YearOfBirth

Into #years

from #TempEmployee

order by 1

declare @Years varchar(200) = ''

select @Years = @Years + CONCAT(',[', YearOfBirth, '] ')

from #years

print @Years

set @Years = (select stuff( @Years ,1,1, '') )

print @Years

declare @command varchar(300)

set @command =

'select \*

from #TempEmployee

pivot

(count(BusinessEntityID) for YearOfBirth in (' + @Years +') ) tablePivot'

print (@command)

exec (@command)

--- 3 ---

GO

DROP TABLE IF EXISTS #Temp

declare @departments varchar(500) = ''

declare @SQL nvarchar(1000) = '';

SELECT hd.Name as "Dept\_name",COUNT(HE.BusinessEntityID) as "Number" ,HE.Gender

INTO #Temp

FROM HumanResources.EmployeeDepartmentHistory edh

INNER JOIN HumanResources.EMPLOYEE he ON EDH.BusinessEntityID=HE.BusinessEntityID inner join [HumanResources].[Department] hd

on edh.DepartmentID=hd.DepartmentID

WHERE edh.EndDate IS NULL

GROUP BY hd.Name,Gender

select @departments = @departments + CONCAT(',[', Name, '] ')

from HumanResources.Department

set @departments = (select stuff( @departments ,1,1, '') )

print @departments

Set @SQL=

'select \* from #temp

pivot (sum (number) for Dept\_name in (' + @departments + ')) as pvt'

exec (@SQL)

--- 4 ---

DROP TABLE IF EXISTS #Temp

declare @departments varchar(500) = ''

declare @SQL nvarchar(1000) = '';

SELECT hd.Name as "Dept\_name",COUNT(HE.BusinessEntityID) as "Number" ,HE.Gender

INTO #Temp

FROM HumanResources.EmployeeDepartmentHistory edh

INNER JOIN HumanResources.EMPLOYEE he ON EDH.BusinessEntityID=HE.BusinessEntityID inner join [HumanResources].[Department] hd

on edh.DepartmentID=hd.DepartmentID

WHERE edh.EndDate IS NULL

GROUP BY hd.Name,Gender

select @departments = @departments + CONCAT(',[', Name, '] ')

from HumanResources.Department

set @departments = (select stuff( @departments ,1,1, '') )

print @departments

Set @SQL=

'select \* from #temp

pivot (sum (number) for Dept\_name in (' + @departments + ')) as pvt'

exec (@SQL)