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Practical Test Part-1

Please open the ASP.NET MVC Project then follow the below instruction

- I have added a Controller called **Home**, so under this controller I added a view called **Index** view.
- Inside **Index.cshtml** file you will get all the HTML and JS code.
- Inside **Home** Controller I have added a Method to perform save called **SaveData.**
- **SaveData** Method has a store procedure called **dbo.SaveEmpBonusRecord.** To perform this store procedure, I added a User defined table type called **dbo. tpEmpBonus_List.**

dbo. tpEmpBonus_List:

```
CREATE TYPE [dbo].[tpEmpBonus_List] AS TABLE(
	[Emp_Id] [varchar](200) NULL,
	[Emp_Name] [varchar](200) NULL,
	[Emp_Bonus] [decimal](20, 2) NULL
)
GO
```

dbo.SaveEmpBonusRecord:

```
CREATE PROCEDURE [dbo].[SaveEmpBonusRecord]
  @arrayList AS dbo.tpEmpBonus_List READONLY
AS
BEGIN

--This is for inserting bulk records
INSERT INTO [Employee].[EmployeeBonusDetail]
           ([EmployeeId]
           ,[EmployeeName]
           ,[EmployeeBonusAmount])
SELECT
    Emp_Id as EmployeeId, Emp_Name as EmployeeName, Emp_Bonus as EmployeeBonusAmount
FROM
    @arrayList



--This is for return saved records
       SELECT
    Emp_Name
FROM
    @arrayList

END
```

Practical Test Part-2

Q1: I have added a function to find the area by EmployeeId and EffectiveDate. You can run the function by this `select *from Func_Get_Area_By_EmployeeId_EffectiveDate('101','2020-05-03')` Or here is the full script given below:

```
CREATE FUNCTION [dbo].[Func_Get_Area_By_EmployeeId_EffectiveDate] (
	@EmployeeID varchar(3),
	@EffectiveDate datetime
)
RETURNS TABLE AS
    RETURN (select AreaName From Employee.EmployeeTransfer ET
JOIN Employee.Area A ON ET.AreaID=A.AreaID
WHERE ET.EmployeeID=@EmployeeID AND ET.EffectiveDate=convert(varchar, @EffectiveDate,
23))
```

Q1: I wrote the script to generate report as you expected. You can run this (`exec Report_Dynamic_Salary_Head_Wise_Sheet`) command to see the output of the expected query Or here is the full script is given below:

```
--Declare Variable
DECLARE @Pivot_Column [nvarchar](max);
DECLARE @Query [nvarchar](max);

--Select Pivot Column
SELECT @Pivot_Column= COALESCE(@Pivot_Column+',','')+
QUOTENAME(BreakupName) FROM
(SELECT DISTINCT SB.BreakupName FROM [Pay].[SalaryDetails] SD
JOIN [Pay].[SalaryBreakUp] SB ON SD.BreakupID=SB.BreakupID)Tab

--Create Dynamic Query
SELECT @Query='SELECT EmployeeID, '+@Pivot_Column+' FROM
(SELECT SD.EmployeeID, SB.BreakupName , SD.BreakupAmount FROM
[Pay].[SalaryDetails] SD
JOIN [Pay].[SalaryBreakUp] SB ON SD.BreakupID=SB.BreakupID )Tab1
PIVOT
(
SUM(BreakupAmount) FOR [BreakupName] IN ('+@Pivot_Column+')) AS Tab2
ORDER BY Tab2.EmployeeID'

--Execute Query
EXEC  sp_executesql  @Query
```