

1.

```
Use Company;
GO
create function numberOfEmployee (@Branch nchar(20))
returns int
as
Begin
    Declare @Total_Employee int
    Select @Total_Employee = count(BRANCHES.BRACH_NAME) from Employees,BRANCHES
    where Employees.BID=BRANCHES.BID and BRANCHES.BRACH_NAME=@Branch;
    return @Total_Employee;
END
GO

select BRANCHES.BRACH_NAME,count(BRANCHES.BRACH_NAME) from Employees,BRANCHES
where Employees.BID=BRANCHES.BID
group by BRANCHES.BRACH_NAME;

select dbo.numberOFEmployee('Chennai') AS Total_Employee;
select dbo.numberOFEmployee('Delhi') AS Total_Employee;
select dbo.numberOFEmployee('Kolkata') AS Total_Employee;
select dbo.numberOFEmployee('Mumbai') AS Total_Employee;
```

The screenshot shows the Microsoft SQL Server Enterprise Manager interface. The left pane displays the 'Object Explorer' with the 'Company' database selected. The central pane shows a SQL query window with the following code:

```
select BRANCHES.BRACH_NAME,count(BRANCHES.BRACH_NAME) from Employees,BRANCHES
where Employees.BID=BRANCHES.BID
group by BRANCHES.BRACH_NAME;

select dbo.numberOFEmployee('Chennai') AS Total_Employee;
select dbo.numberOFEmployee('Delhi') AS Total_Employee;
select dbo.numberOFEmployee('Kolkata') AS Total_Employee;
select dbo.numberOFEmployee('Mumbai') AS Total_Employee;
```

The bottom pane shows the 'Results' tab with the following data:

BRACH_NAME	(No column name)
1	CHENNAI
2	DELHI
3	KOLKATA
4	MUMBAI

Below the table, the 'Total\_Employee' values are displayed for each branch:

Total_Employee	
1	4
1	3
1	2
1	4

The status bar at the bottom indicates 'Query executed successfully.' and 'LAPTOP-0620UP2L\SQLEXPRESS ... LAPTOP-0620UP2L\91788 ... Company 00:00:00 8 rows'.

2.

```
GO
CREATE FUNCTION Branch_Id(@BName as nvarchar(20))
RETURNS int
AS
BEGIN
    DECLARE @val int;

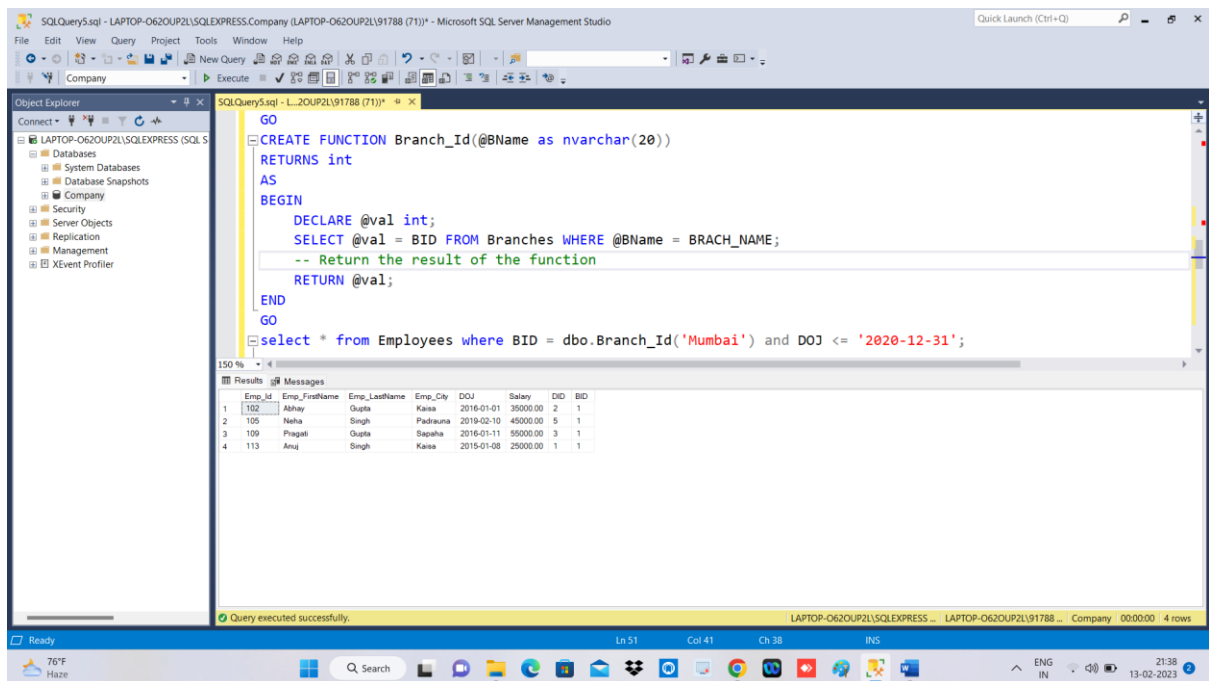
    SELECT @val = BID FROM Branches WHERE @BName = BRACH_NAME;

    -- Return the result of the function
    RETURN @val;

```

```
END
GO
```

```
select * from Employees where BID = dbo.Branch_Id('Mumbai') and DOJ <= '2020-12-31';
```



The screenshot displays the Microsoft SQL Server Enterprise Manager interface. The left pane shows the 'Object Explorer' with the 'Company' database selected. The right pane shows a query window with the following SQL code:

```
GO
CREATE FUNCTION Branch_Id(@BName as nvarchar(20))
RETURNS int
AS
BEGIN
    DECLARE @val int;
    SELECT @val = BID FROM Branches WHERE @BName = BRACH_NAME;
    -- Return the result of the function
    RETURN @val;
END
GO
select * from Employees where BID = dbo.Branch_Id('Mumbai') and DOJ <= '2020-12-31';
```

The 'Results' pane at the bottom shows the output of the query, which is a table with 4 rows and 8 columns: Emp\_id, Emp\_FirstName, Emp\_LastName, Emp\_City, DOJ, Salary, DID, and BID.

Emp_id	Emp_FirstName	Emp_LastName	Emp_City	DOJ	Salary	DID	BID
102	Abhay	Gupta	Kaia	2016-01-01	25000.00	2	1
105	Naha	Singh	Padrauna	2019-02-10	45000.00	5	1
109	Pragati	Gupta	Sapaha	2016-01-11	55000.00	3	1
113	Anuj	Singh	Kaia	2015-01-08	25000.00	1	1

The status bar at the bottom indicates 'Query executed successfully.' and '4 rows'.