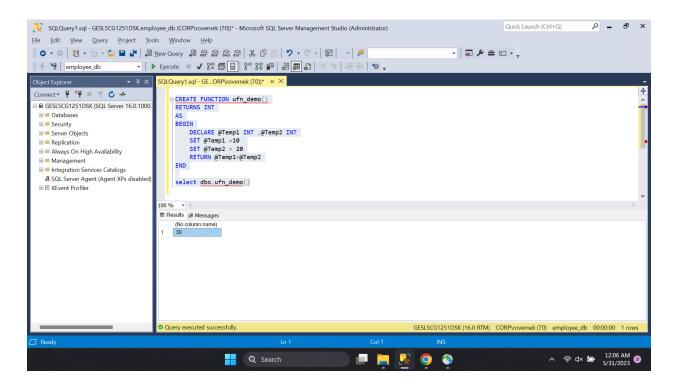
## Demonstrate the following:

1)A Table Variable can be used inside a Function.

```
CREATE FUNCTION ufn_demo()
RETURNS INT
AS
BEGIN
DECLARE @Temp1 INT ,@Temp2 INT
SET @Temp1 =10
SET @Temp2 = 20
RETURN @Temp1+@Temp2
END
```

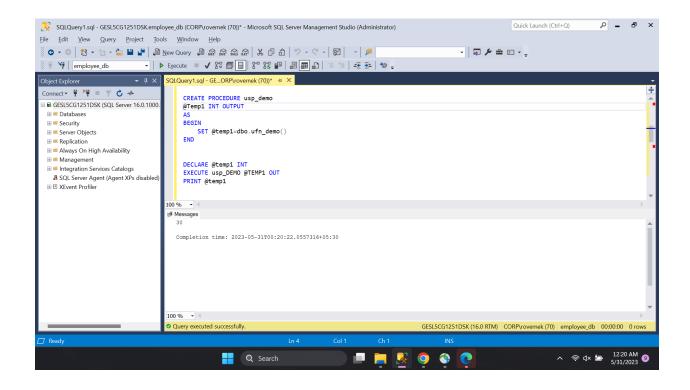
select dbo.ufn\_demo()



## 2)Can we call a function inside a stored procedure

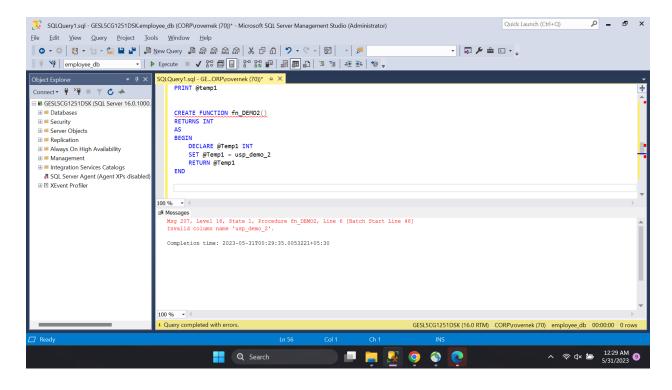
CREATE PROCEDURE usp\_demo
@Temp1 INT OUTPUT
AS
BEGIN
SET @temp1=dbo.ufn\_demo()
END

DECLARE @temp1 INT
EXECUTE usp\_DEMO @TEMP1 OUT
PRINT @temp1



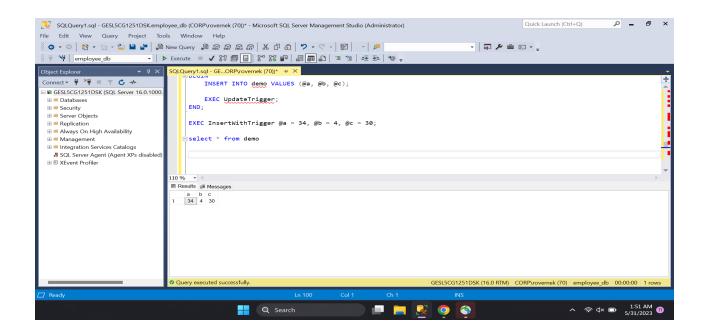
3) Can we call a stored procedure inside a function?

```
CREATE PROCEDURE usp_demo_2
@TEMP1 int OUTPUT
as
begin
     set @TEMP1=50
end
DECLARE @temp1 INT
EXECUTE usp_demo_2 @temp1 OUT
PRINT @temp1
CREATE FUNCTION fn_DEMO2()
RETURNS INT
AS
BEGIN
 DECLARE @Temp1 INT
 SET @Temp1 = usp demo 2
 RETURN @Temp1
END
```



4)Can we call trigger inside a Stored Procedure

```
CREATE TABLE demo (
  a INT PRIMARY KEY, b int,
                              c int
);
CREATE TRIGGER UpdateTrigger
ON demo
AFTER INSERT
AS
BEGIN
  UPDATE demo
  SET a = b + c
 END;
CREATE PROCEDURE InsertWithTrigger
  @a INT,
  @b int,
  @c int
AS
BEGIN
  INSERT INTO demo VALUES (@a, @b, @c);
  EXEC UpdateTrigger;
END;
EXEC InsertWithTrigger @a = 34, @b = 4, @c = 30;
select * from demo
```



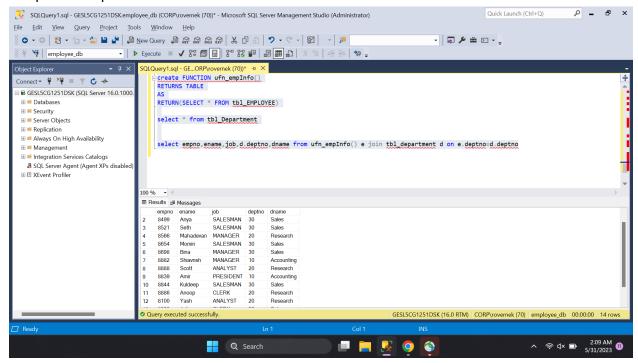
5) Join table valued function with a table

SELECT \* FROM tbl\_employee

CREATE FUNCTION ufn\_empInfo()
RETURNS TABLE
AS
RETURN(SELECT \* FROM tbl\_EMPLOYEE)

select \* from tbl Department

select empno,ename,job,d.deptno,dname from ufn\_empInfo() e join tbl\_department d on e.deptno=d.deptno

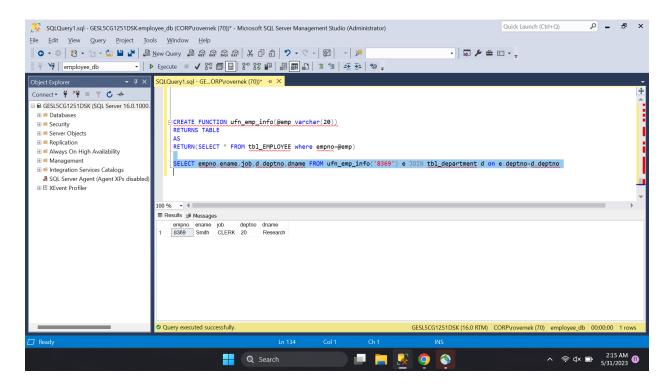


6) Join table valued function(with input parameters) with a table

CREATE FUNCTION ufn\_emp\_info(@emp varchar(20))
RETURNS TABLE
AS

RETURN(SELECT \* FROM EMPLOYEE where empno=@emp)

SELECT empno,ename,job,d.deptno,dname FROM ufn\_emp\_info('8369') e JOIN department d on e.deptno=d.deptno



## 7) Instead of triggers for tables

```
CREATE TABLE demo2 (
a INT PRIMARY KEY,
b INT,
c DATE
);

CREATE TRIGGER InsteadOfInsertTrigger
ON demo2
INSTEAD OF INSERT
AS
BEGIN
INSERT INTO demo2 (a, b, c)
SELECT a, b, GETDATE()
FROM inserted;
END;
```

select \* from demo2

INSERT INTO demo2(a, b) VALUES (2, 200);

