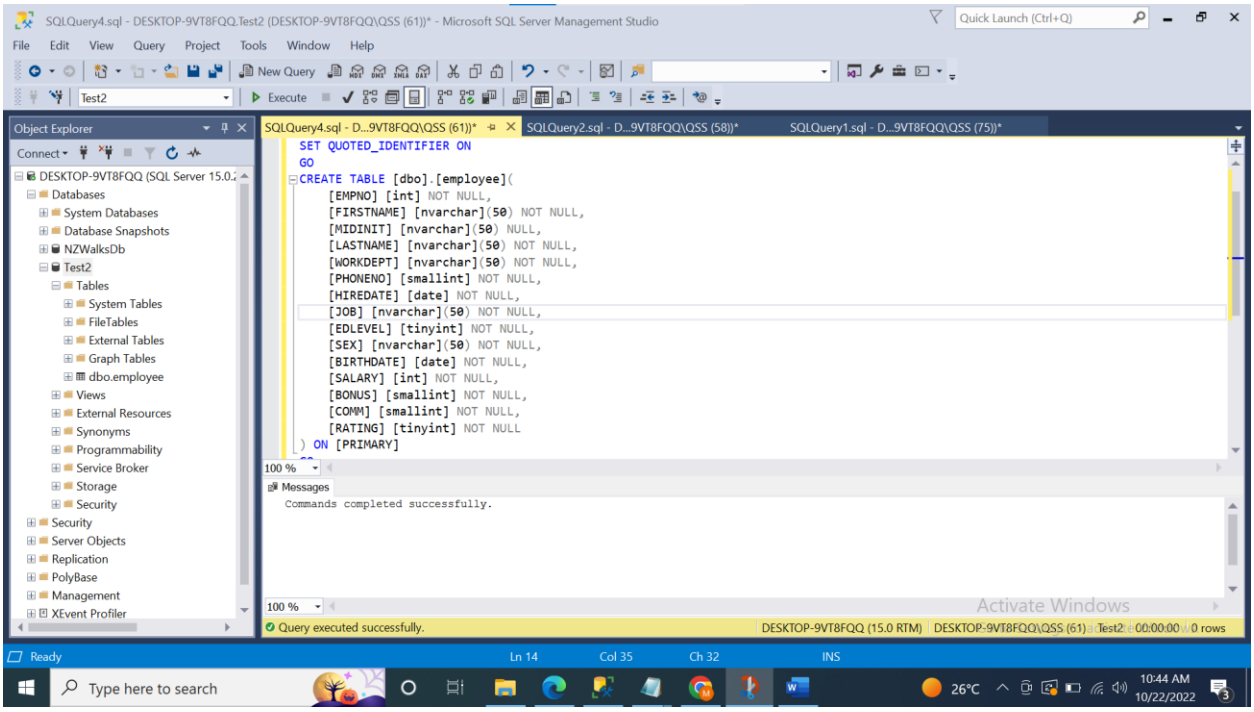
ASSIGNMENT 1 – STORED PROCEDURES

Name- Amrit Pal Singh

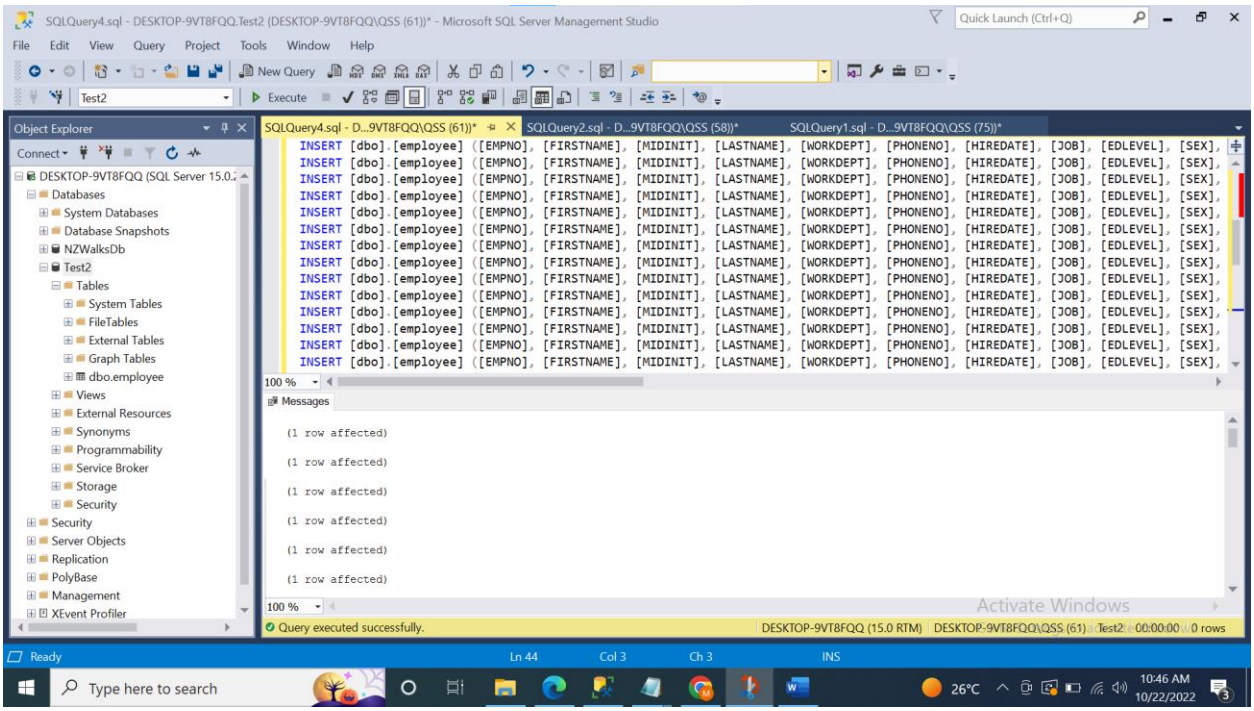
Student ID- 110355211

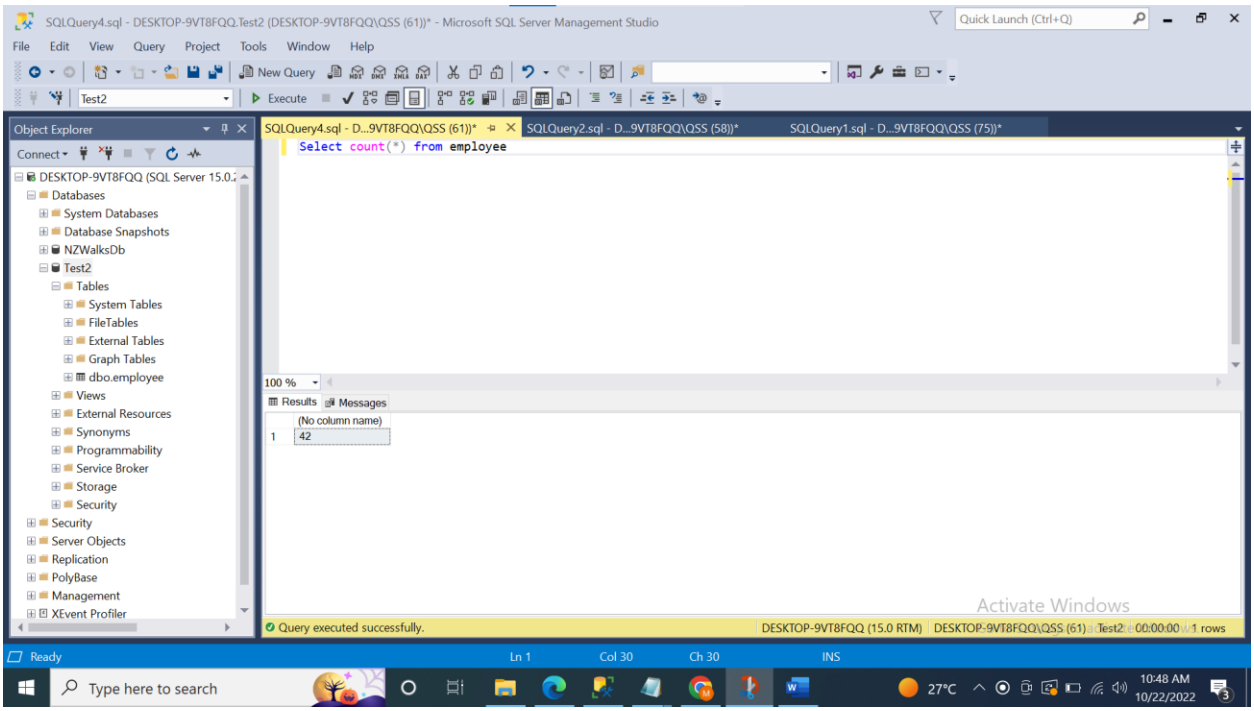
1. Preparation

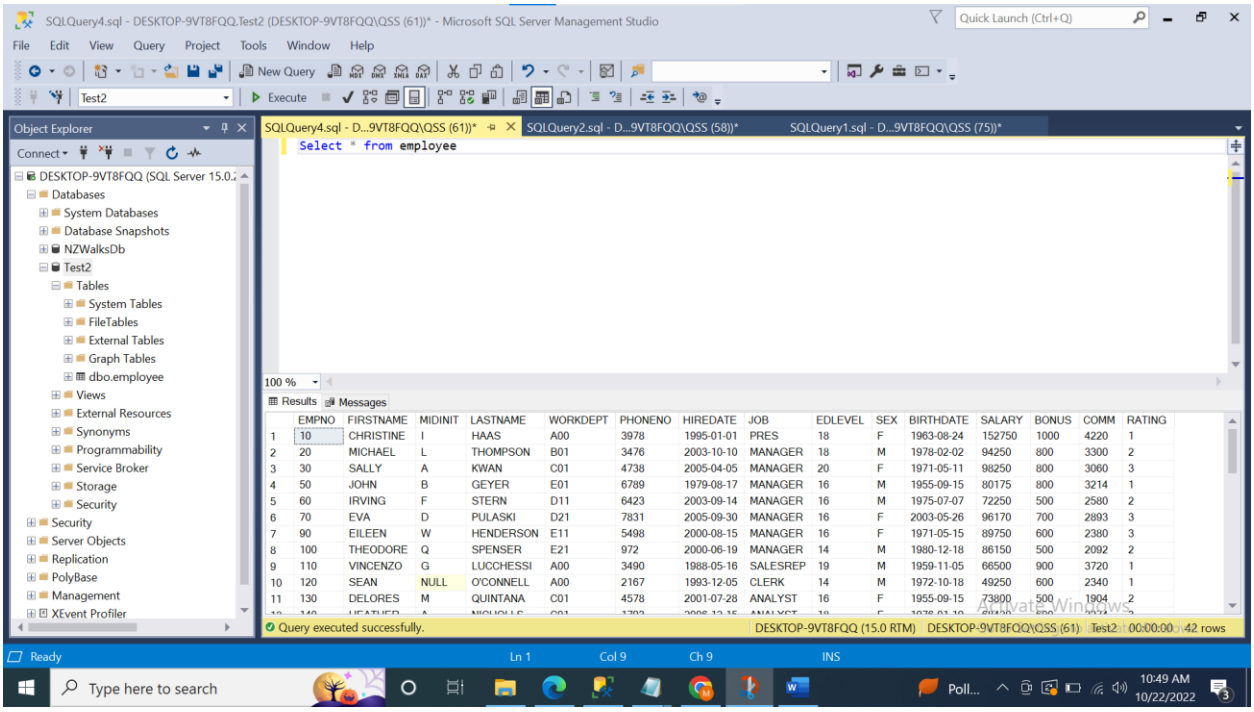
- **Create Employee Table**



- **Insert data into Employee table**



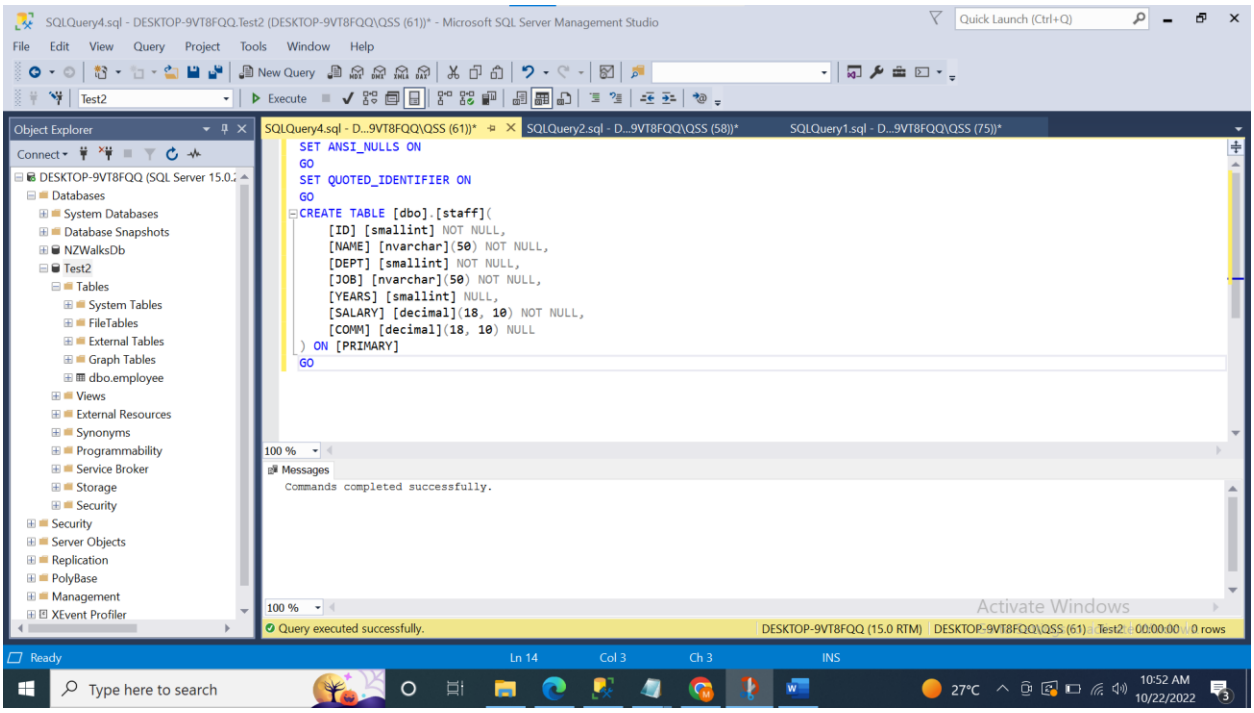




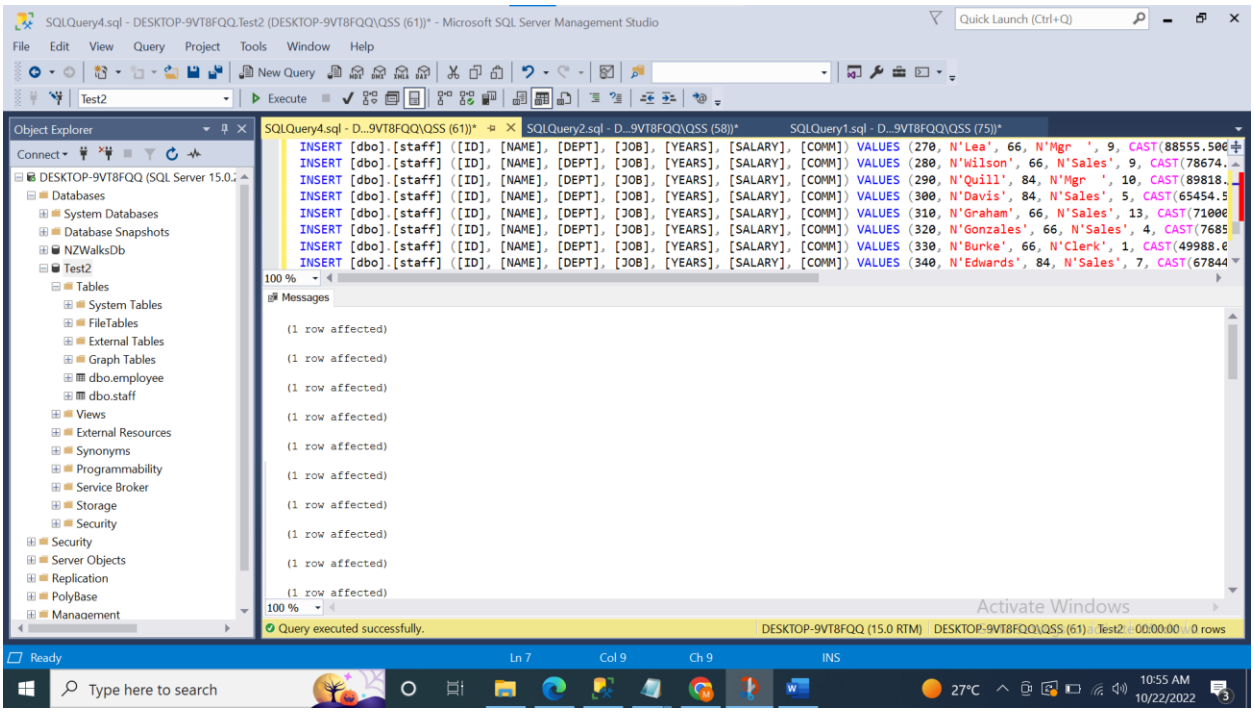
	EMPNO	FIRSTNME	MIDINIT	LASTNAME	WORKDEPT	PHONENO	HIREDATE	JOB	EDLEVEL	SEX	BIRTHDATE	SALARY	BONUS	COMM	RATING
1	10	CHRISTINE	I	HAAS	A00	3978	1995-01-01	PRES	18	F	1963-08-24	152750	1000	4220	1
2	20	MICHAEL	L	THOMPSON	B01	3476	2003-10-10	MANAGER	18	M	1978-02-02	94250	800	3300	2
3	30	SALLY	A	KWAN	C01	4738	2005-04-05	MANAGER	20	F	1971-05-11	98250	800	3060	3
4	50	JOHN	B	GEYER	E01	6789	1979-08-17	MANAGER	16	M	1955-09-15	80175	800	3214	1
5	60	IRVING	F	STERN	D11	6423	2003-09-14	MANAGER	16	M	1975-07-07	72250	500	2580	2
6	70	EVA	D	PULASKI	D21	7831	2005-09-30	MANAGER	16	F	2003-05-26	96170	700	2893	3
7	90	EILEEN	W	HENDERSON	E11	5498	2000-08-15	MANAGER	16	F	1971-05-15	89750	600	2380	3
8	100	THEODORE	Q	SPENSER	E21	972	2000-06-19	MANAGER	14	M	1980-12-18	86150	500	2092	2
9	110	VINCENZO	G	LUCCHESSI	A00	3490	1988-05-16	SALESREP	19	M	1959-11-05	66500	900	3720	1
10	120	SEAN	NULL	O'CONNELL	A00	2167	1993-12-05	CLERK	14	M	1972-10-18	49250	600	2340	1
11	130	DELORES	M	QUINTANA	C01	4578	2001-07-28	ANALYST	16	F	1955-09-15	73800	500	1904	2

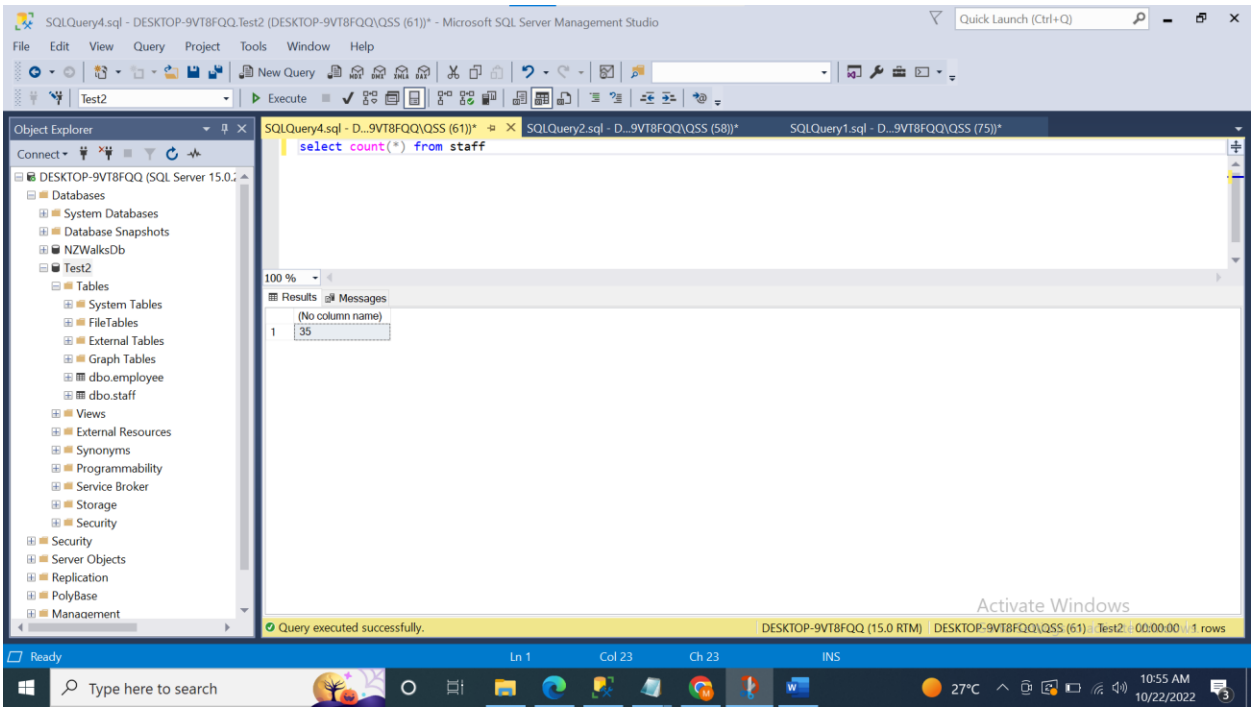
Overview of the employee table

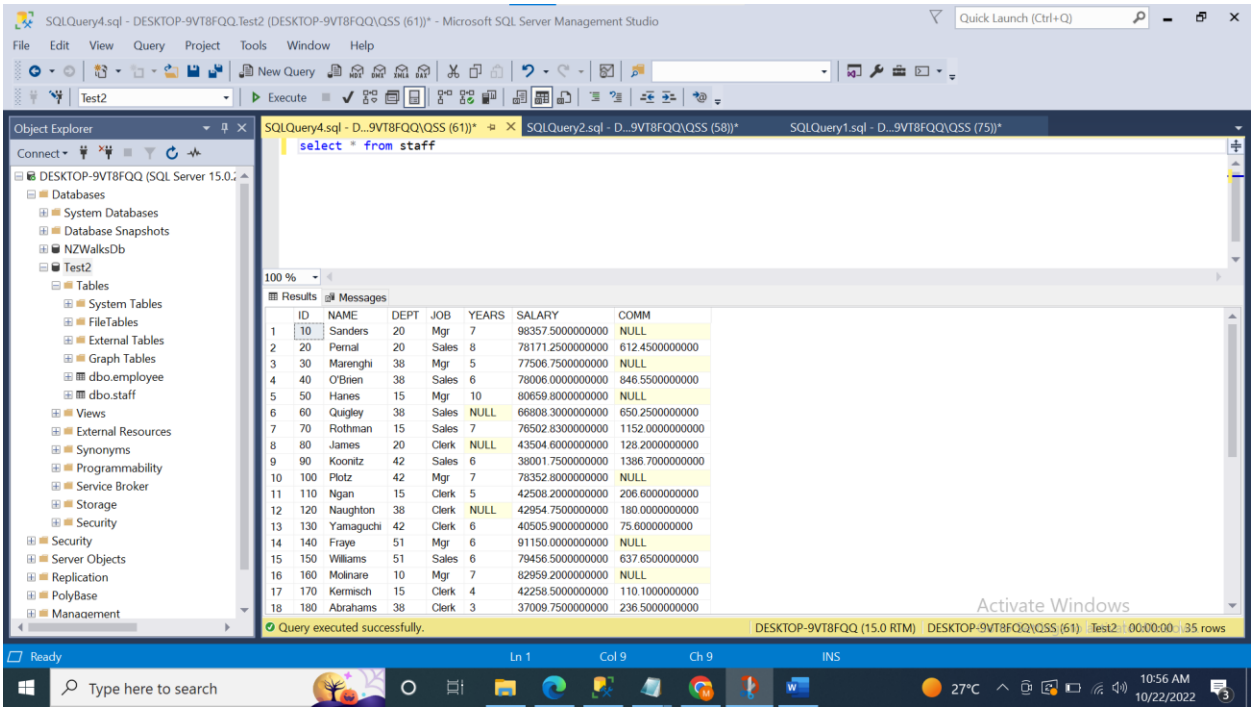
- **Create Staff Table**



- **Insert data into Staff table**

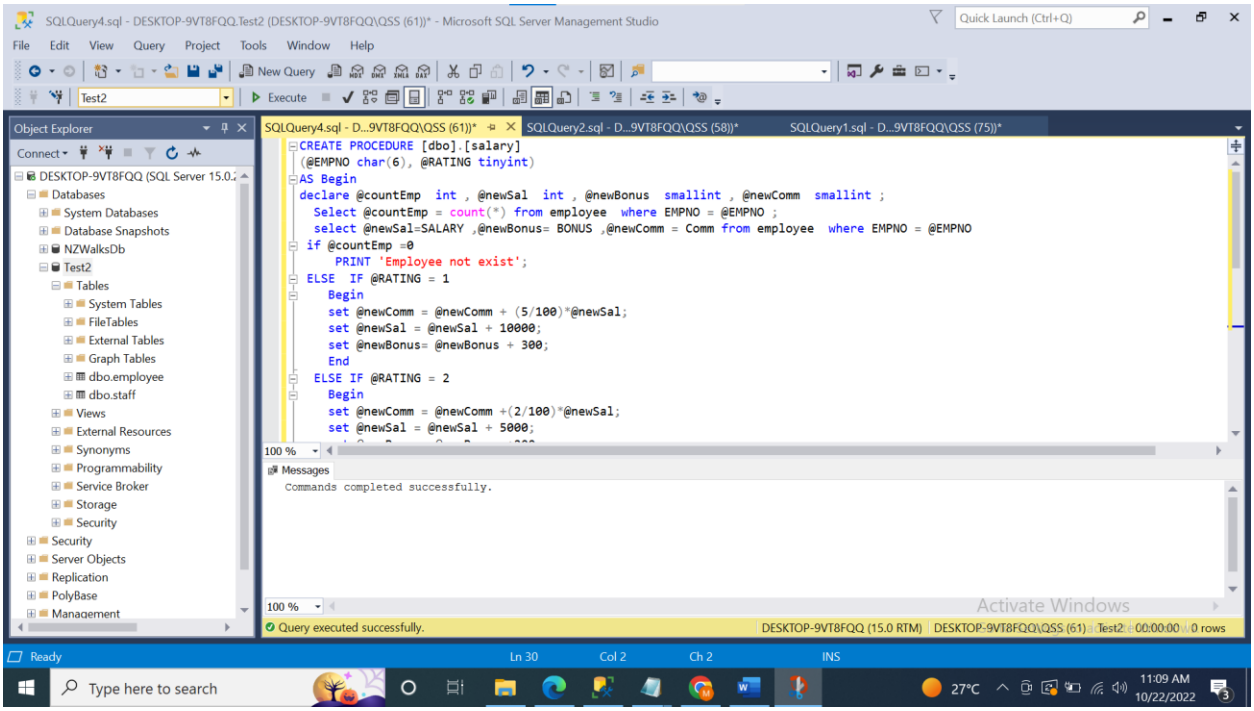




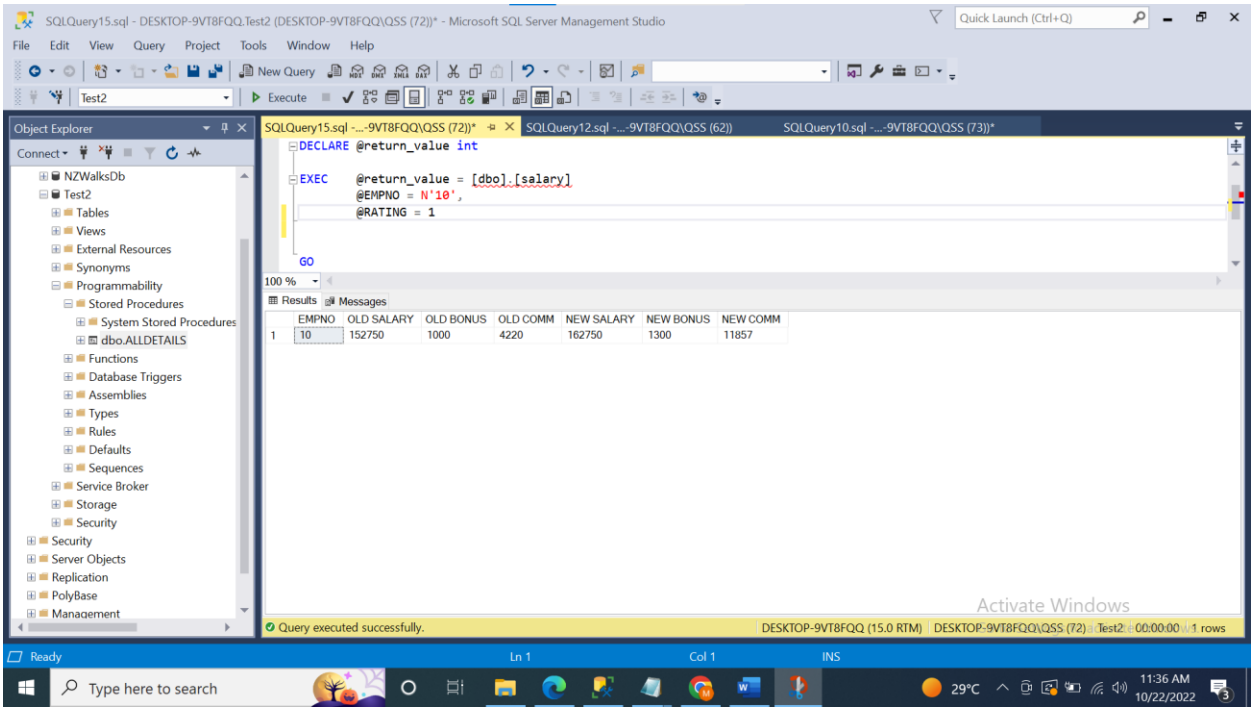


Overview of the staff table

2. Stored procedure called SALARY for the EMPLOYEE table

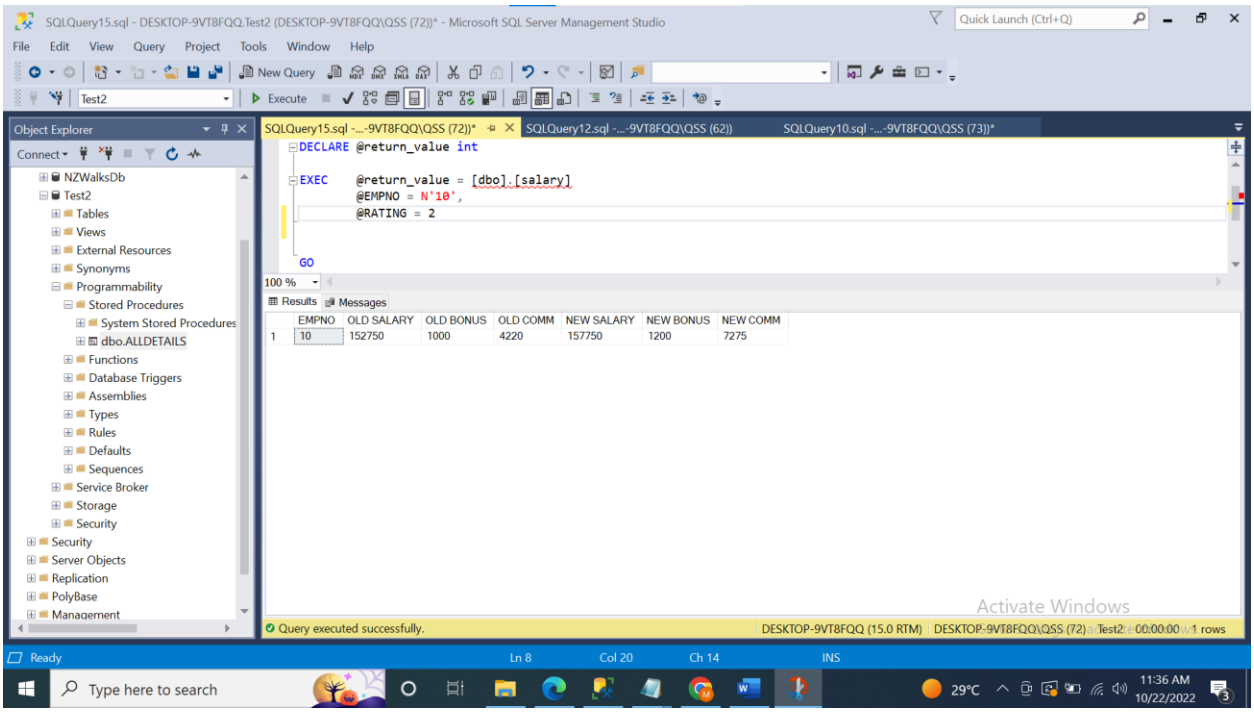


Salary Procedure



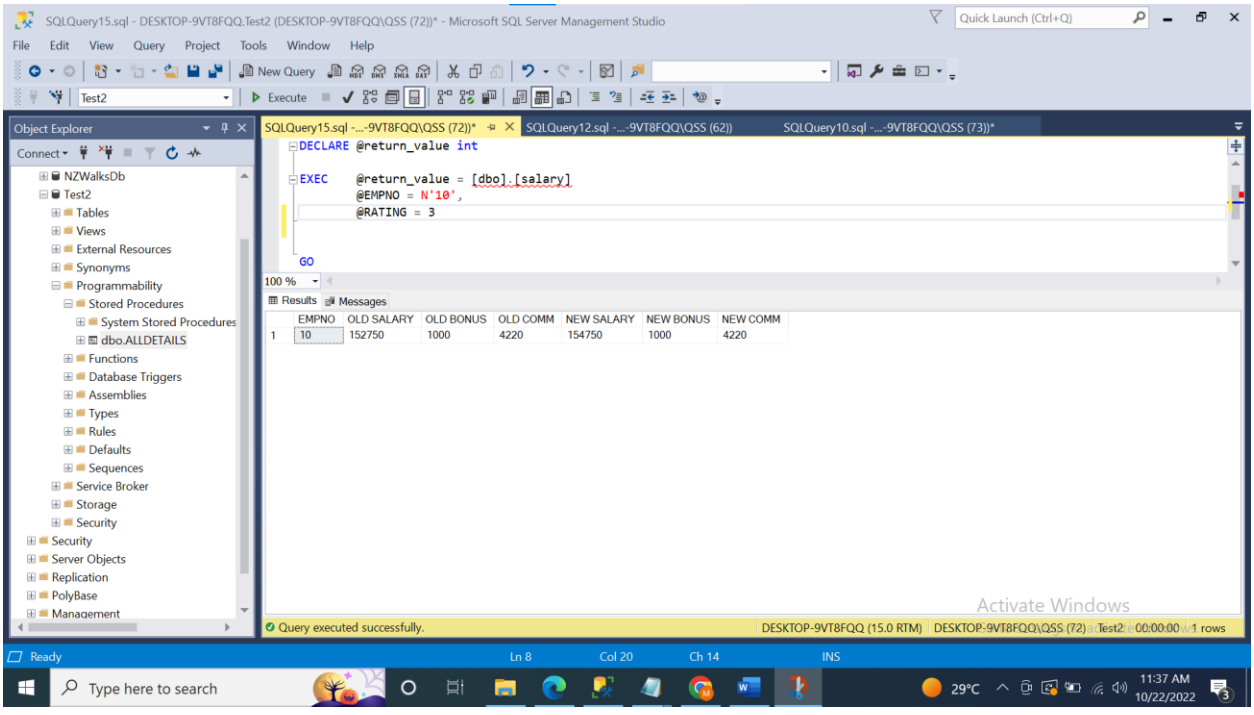
Details of employees for rating 1

If the employee was rated a 1 – they receive a $10,000 salary increase, additional $300 in bonus and an additional 5% of salary as commission



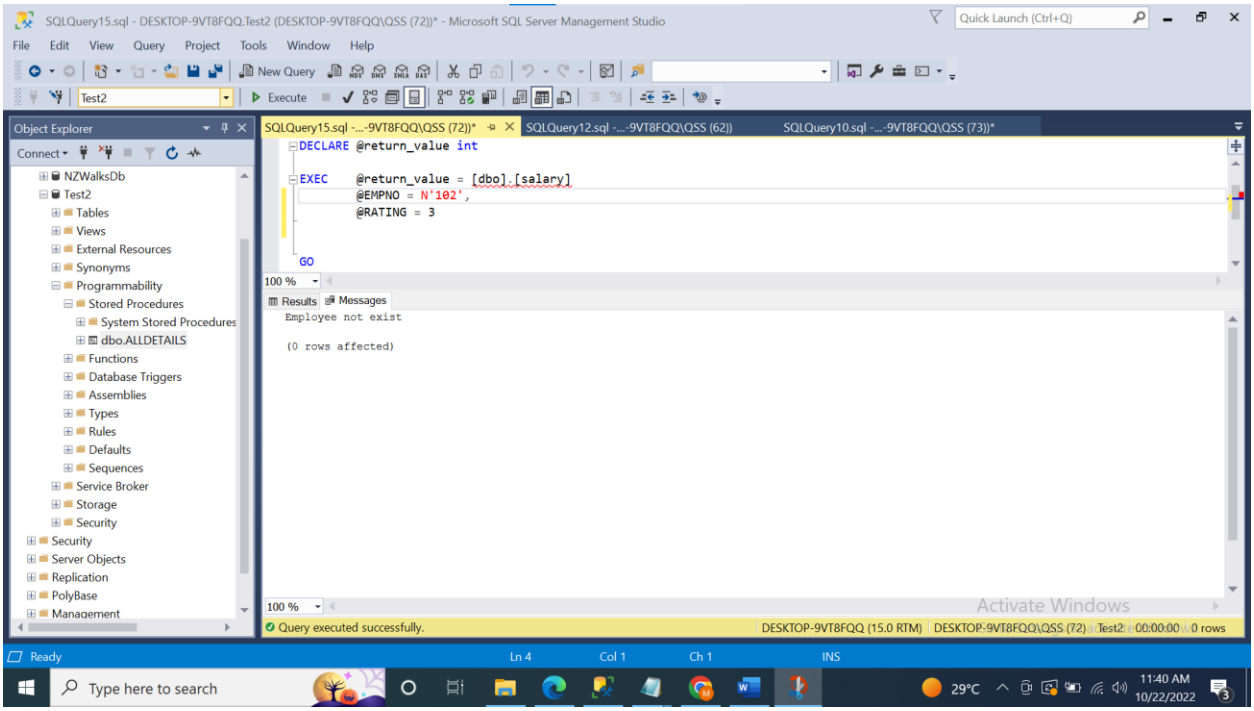
Details of employees for rating 2

If the employee was rated a 2 – they receive a $5,000 salary increase, additional $200 in bonus and an additional 2% of salary as commission.

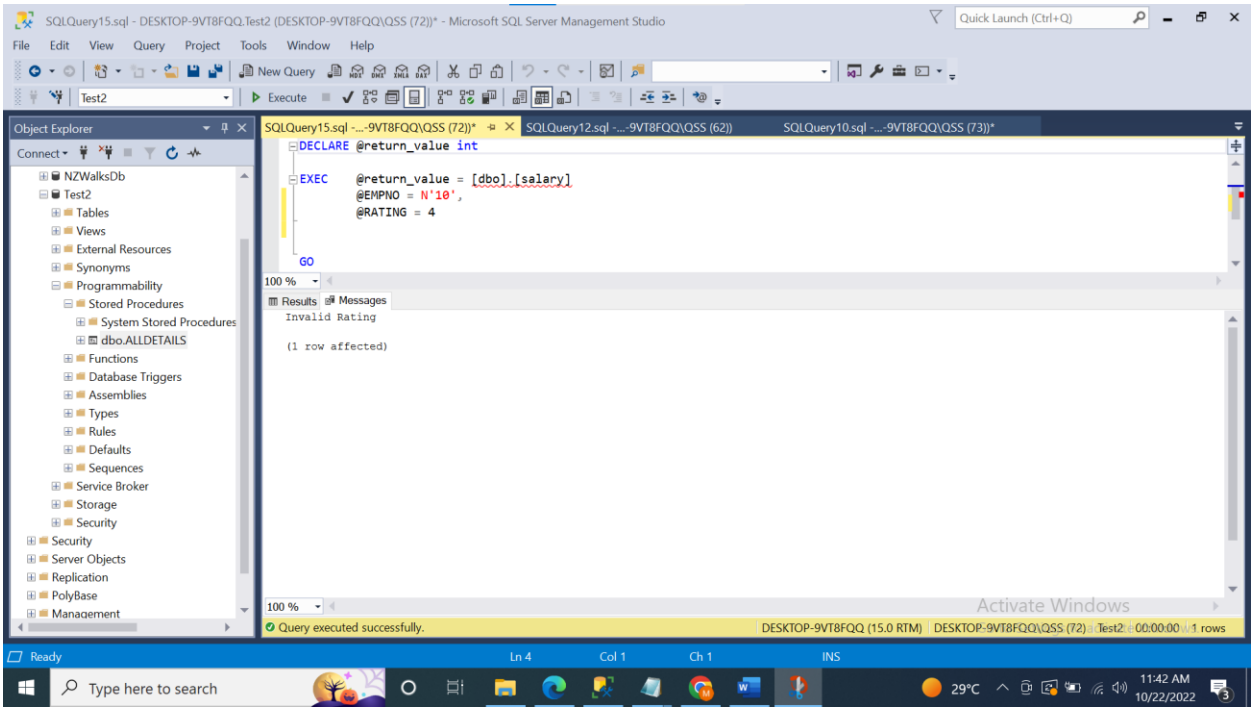


Details of employees for rating 3

If the employee was rated a 3 – they receive a $2,000 salary increase with no change to their variable pay

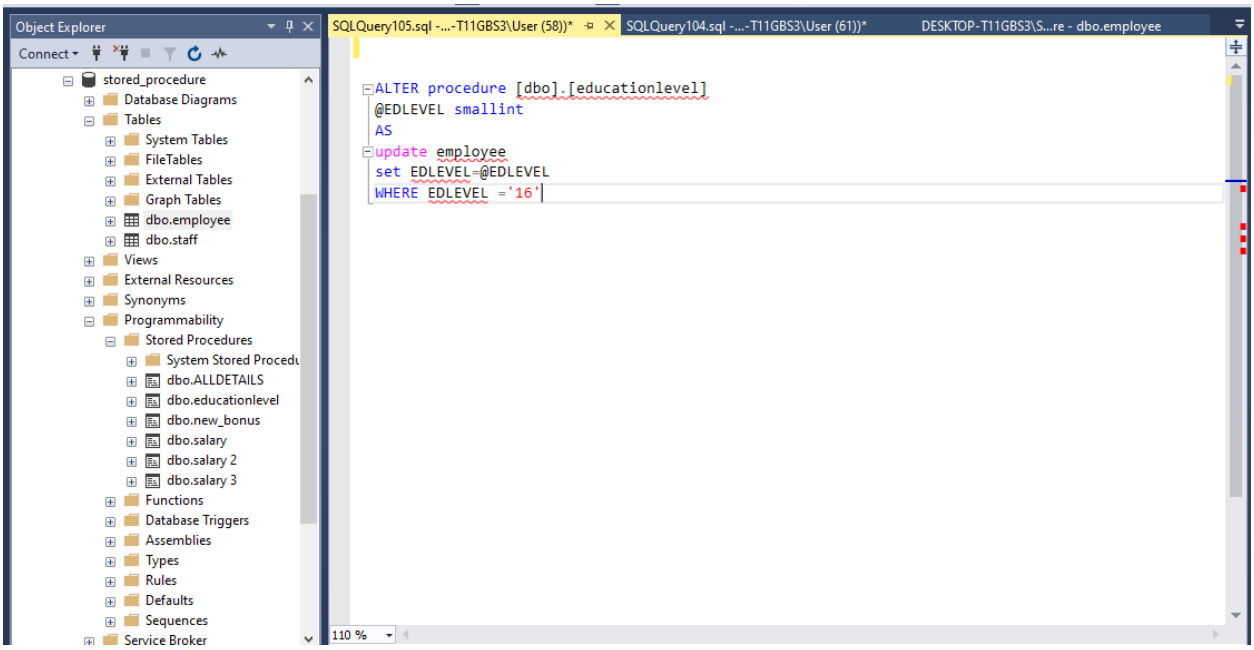


Invalid Employee No



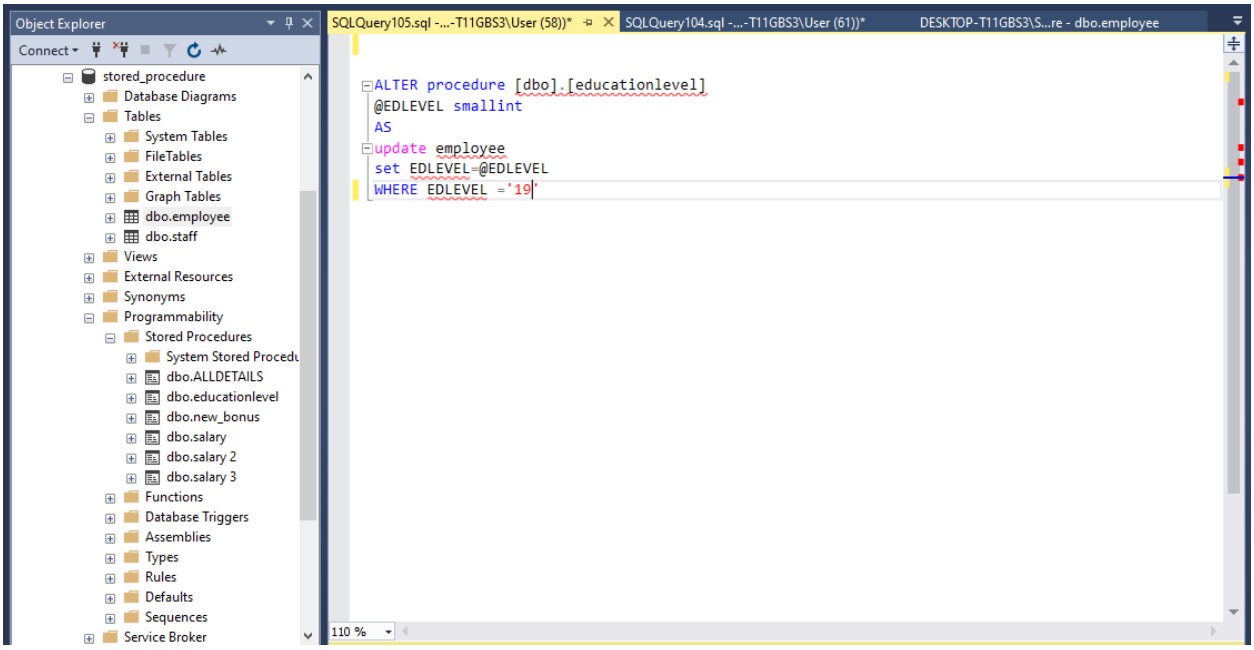
Invalid Rating

3. Stored procedure for employee number and education level



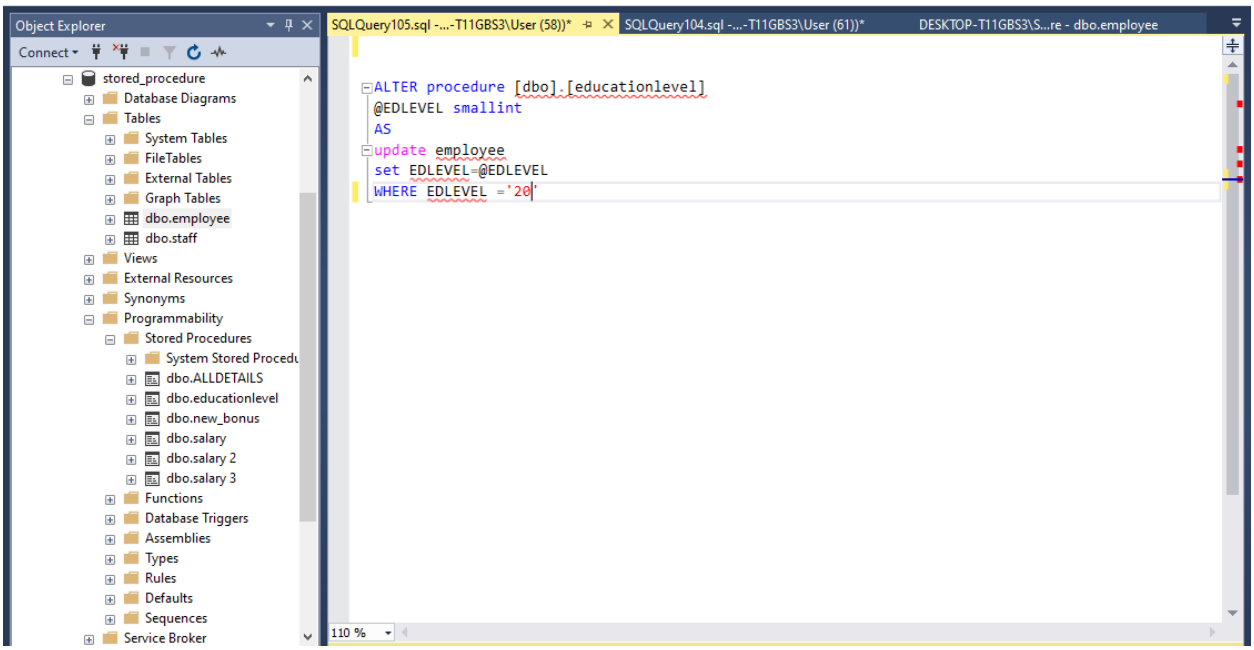
Education level 16

"H" (for high school diploma) – and – this will update the edlevel to 16



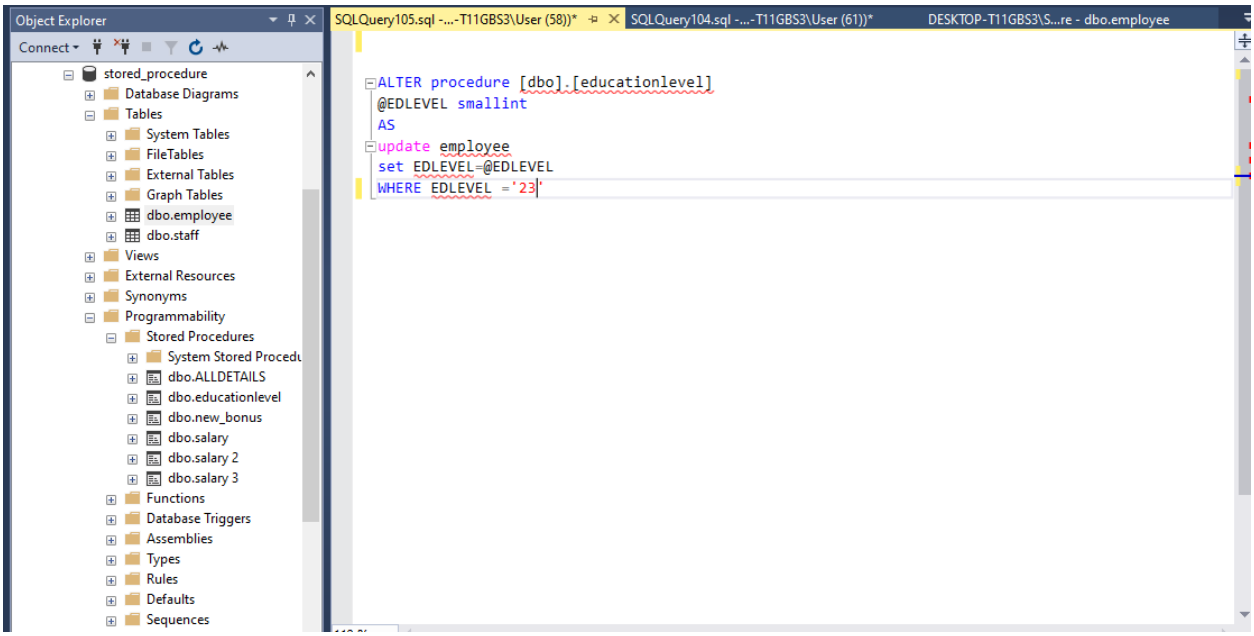
Education level 19

"C" (for college diploma) – and – this will update the edlevel to 19



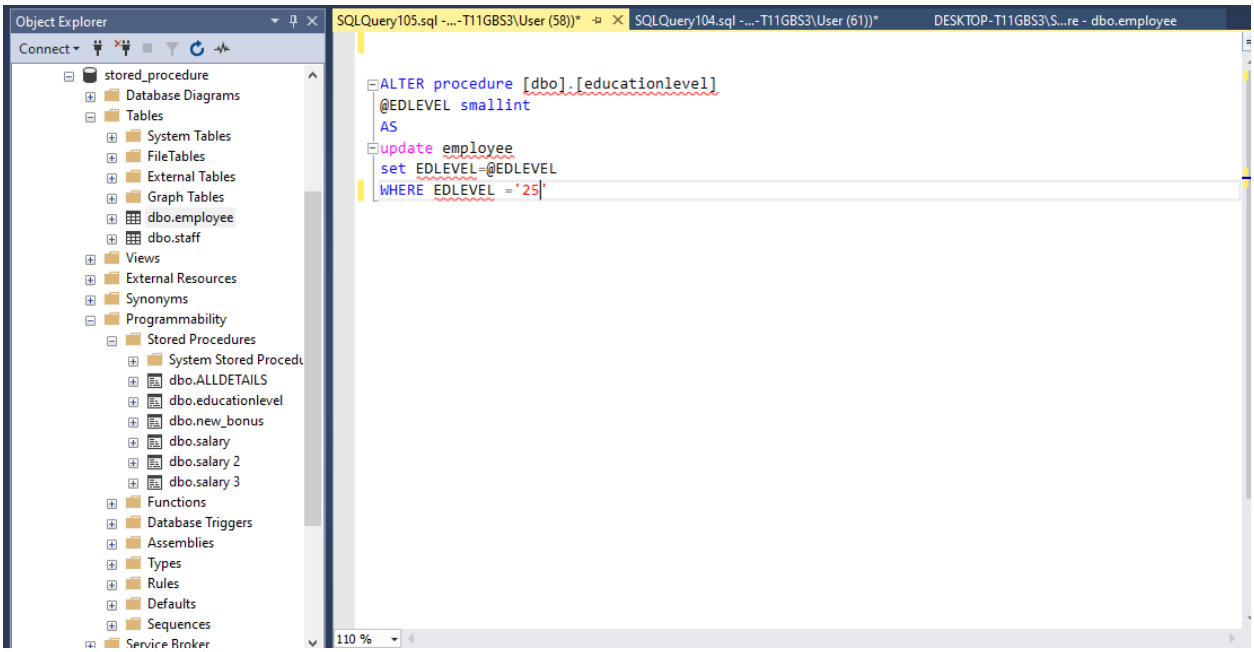
Education level 20

"U" (for university degree) – and – this will update the edlevel to 20.



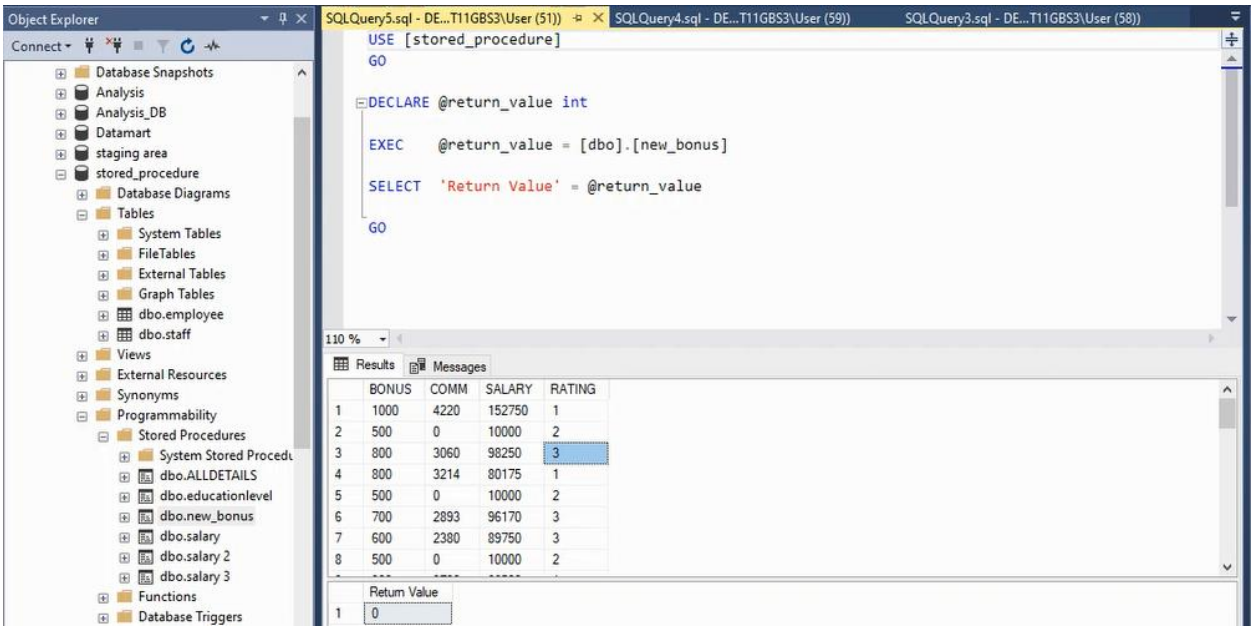
Education level 23

"M" (for masters) – and – this will update the edlevel to 23



Education level 25

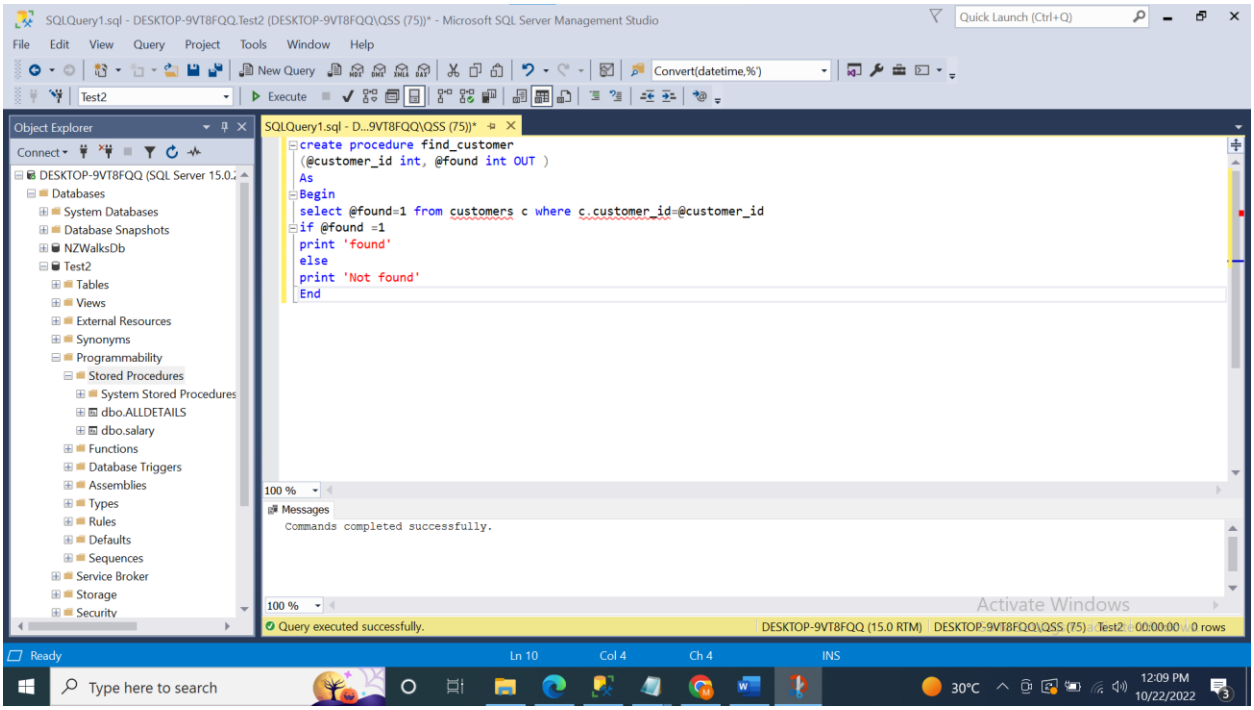
"P" (for PhD) – and – this will update the edlevel to 25



Display Order

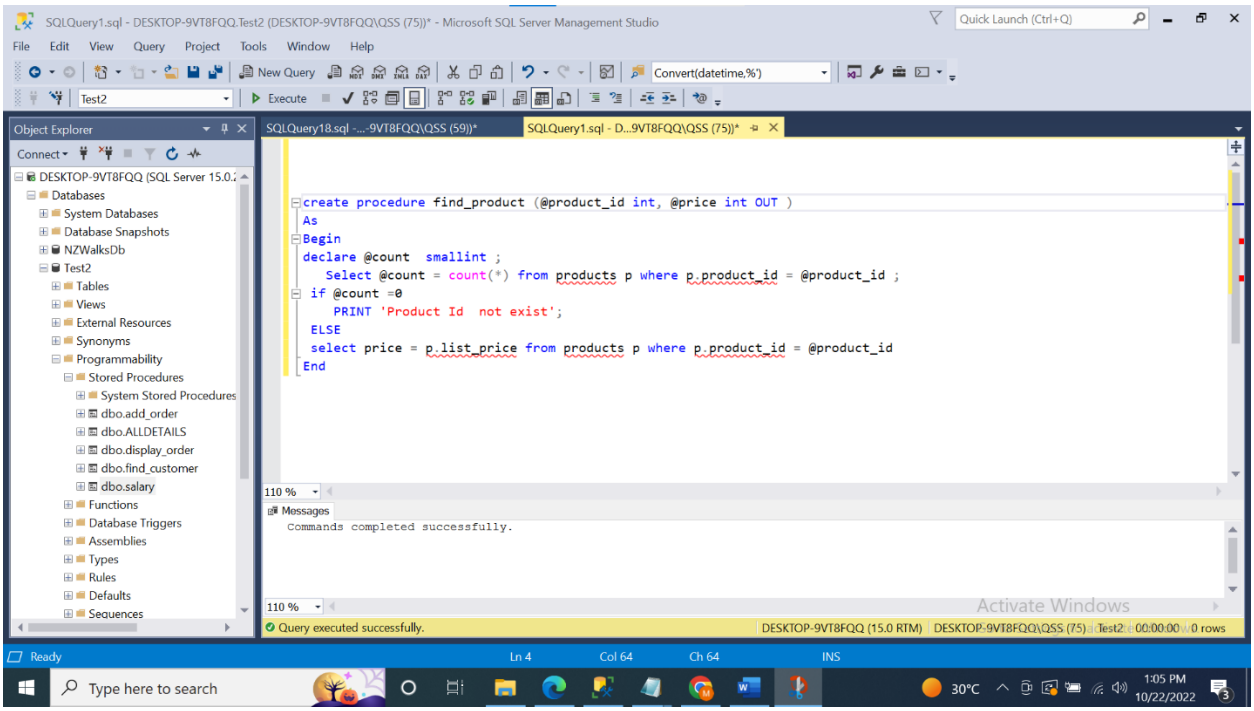
4. Find Customer Procedure

This procedure has an input parameter to receive the customer ID and an output parameter named found. This procedure looks for the given customer ID in the database. If the customer exists, it sets the variable found to 1. Otherwise, the found variable is set to 0.



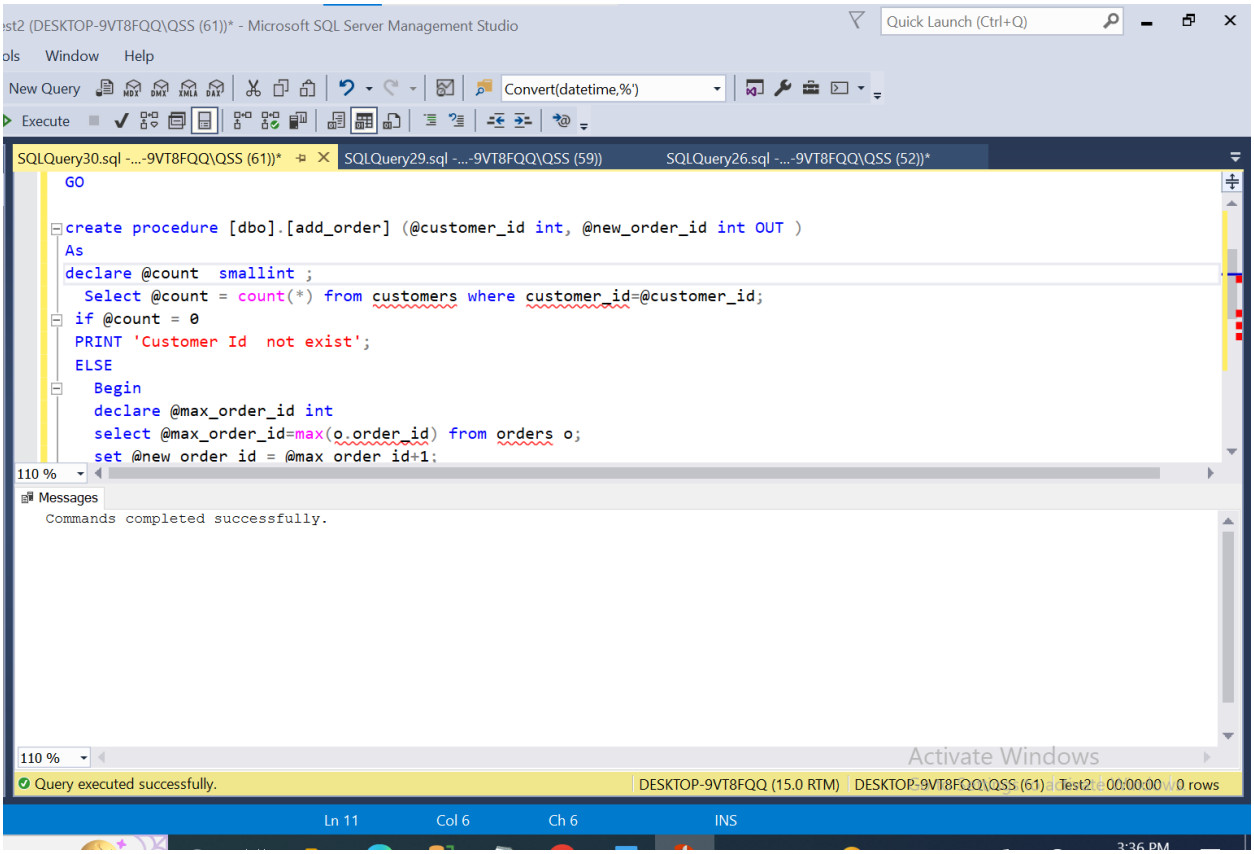
5. Find Product Procedure By Product ID

This procedure has an input parameter to receive the product ID and an output parameter named price. This procedure looks for the given product ID in the database. If the product exists, it stores the product's list_price in the variable price. Otherwise, the price variable is set to 0.



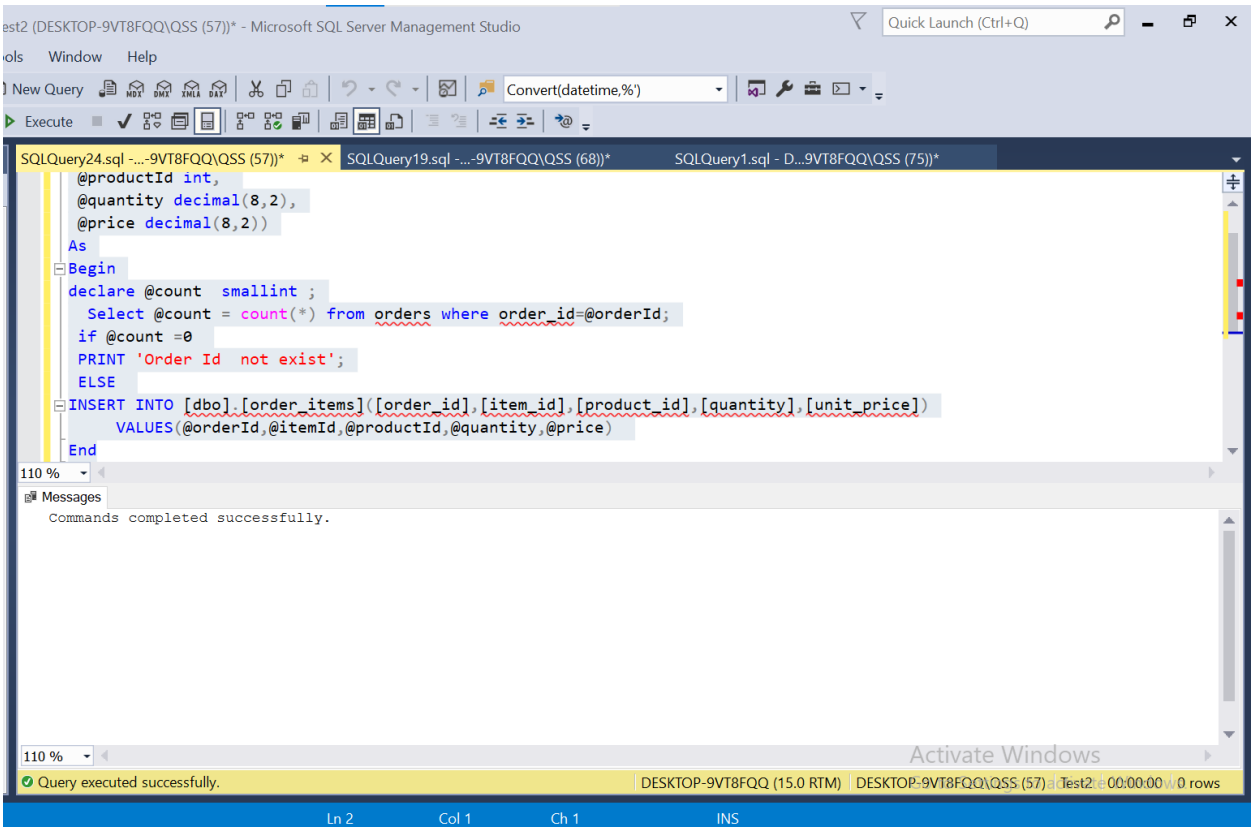
6. Add Order Procedure

This procedure has an input parameter to receive the customer ID and an output parameter named new_order_id.



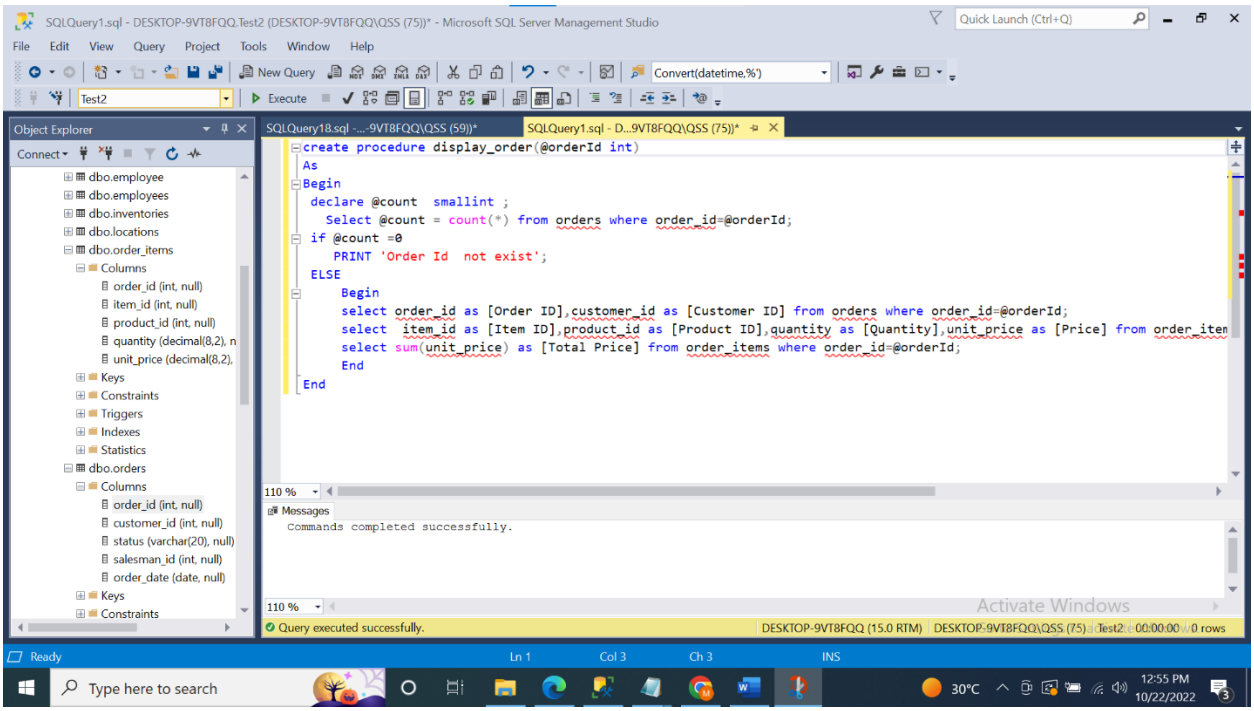
7. Add Order_Item Procedure

This procedure has five IN parameters. It stores the values of these parameters to the table order_items.



8. Display Order Procedure for specific Order ID

This procedure has an input parameter to receive the order ID and no output parameters. This procedure will display the order items associated with a particular order ID.



9. Master Procedure

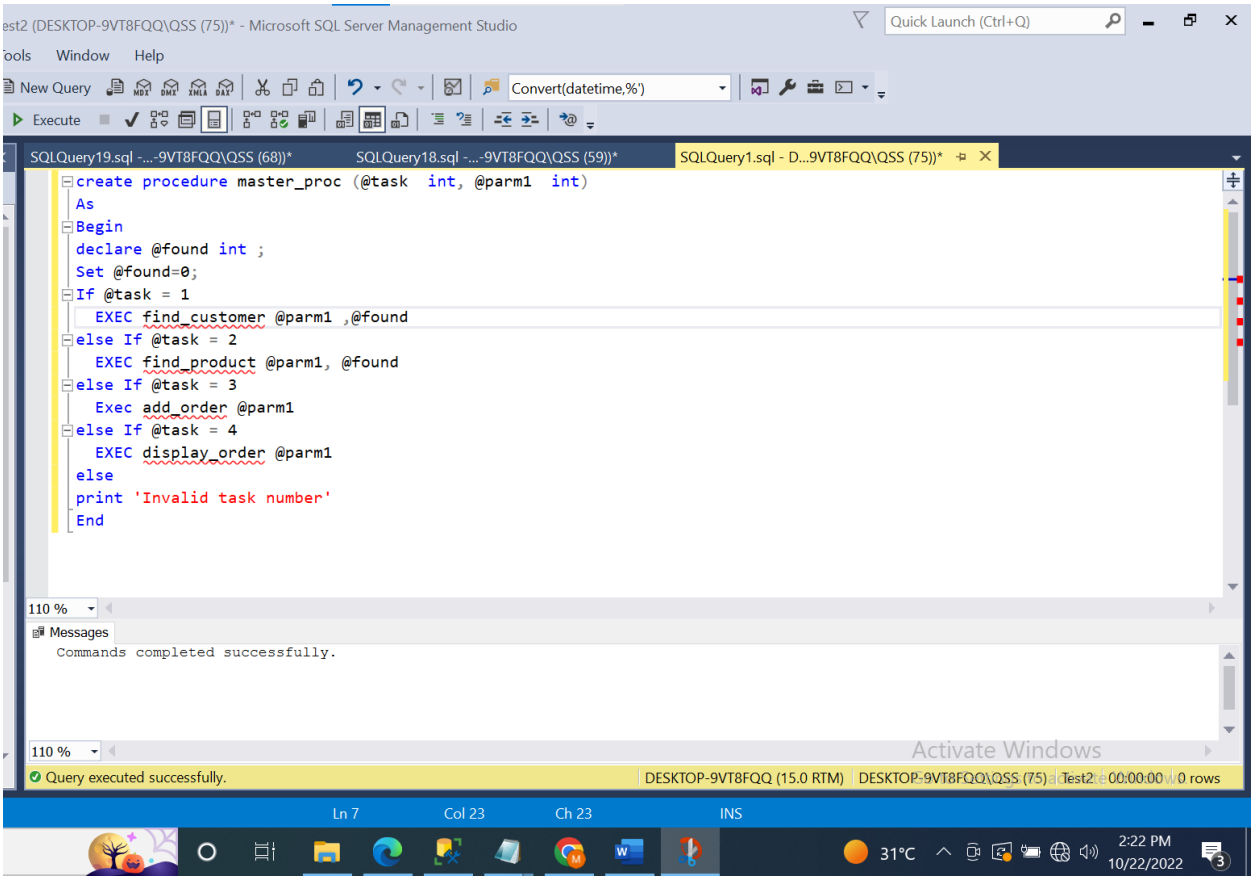
This procedure is a master procedure for four of the five procedures above.

If task = 1, then, call find_customer(parm1)

If task = 2, then, call find_product(parm1)

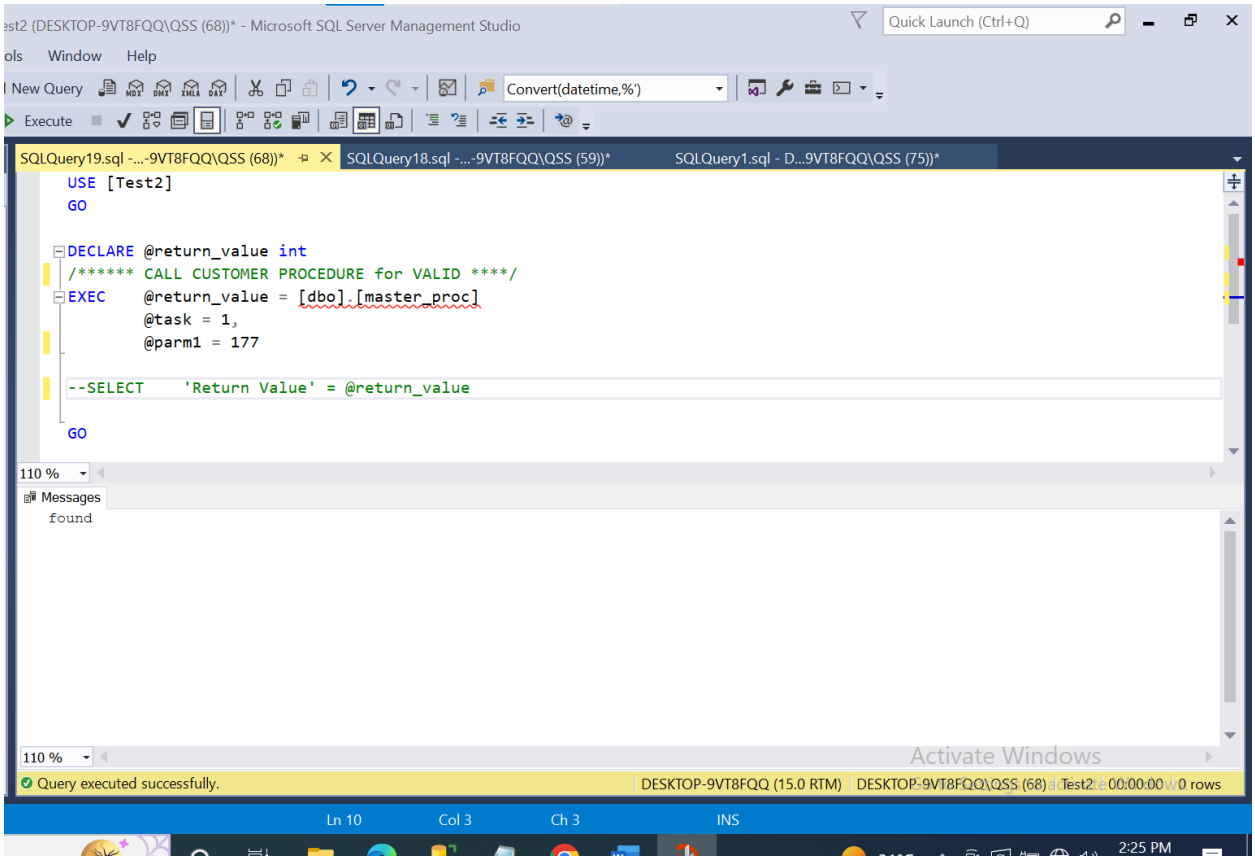
If task = 3, then, call add_order(parm1)

If task = 4, then, call display-order(parm1)

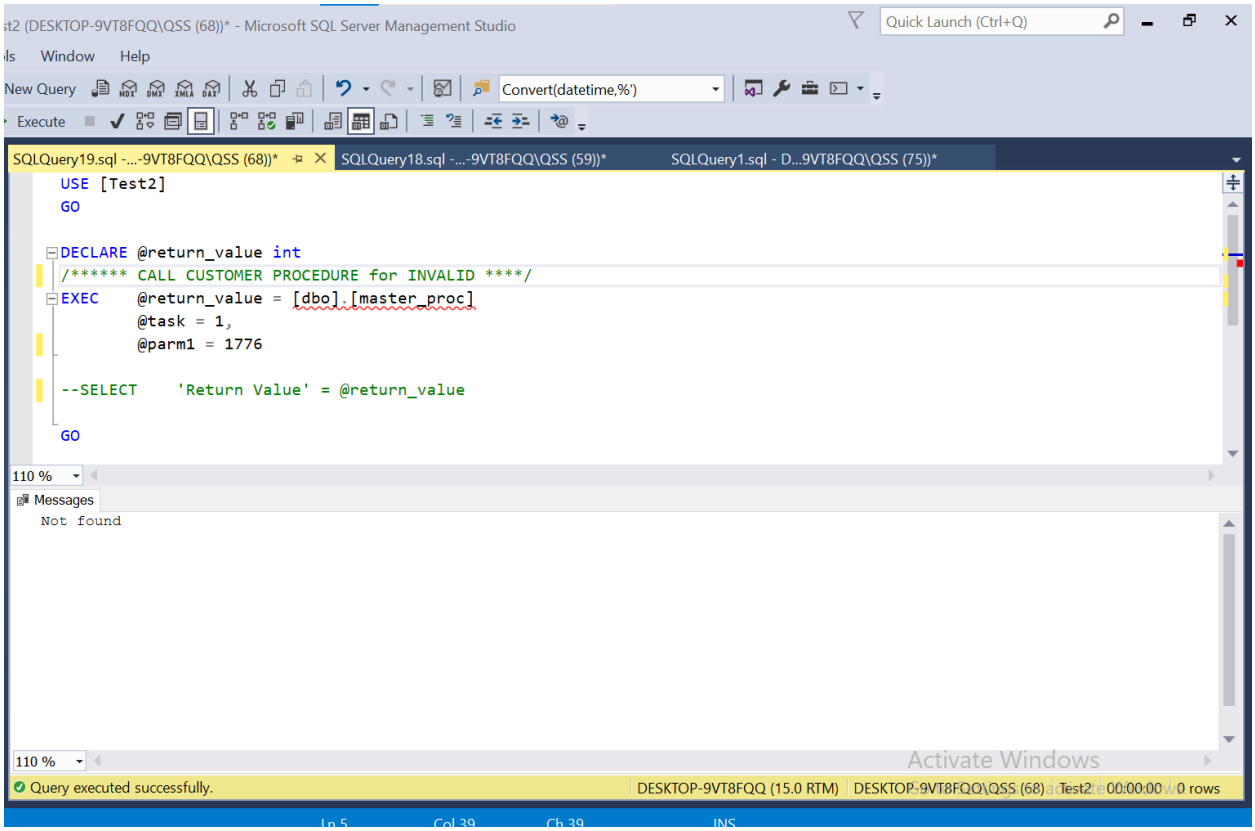


Call other procedures using Master Procedure

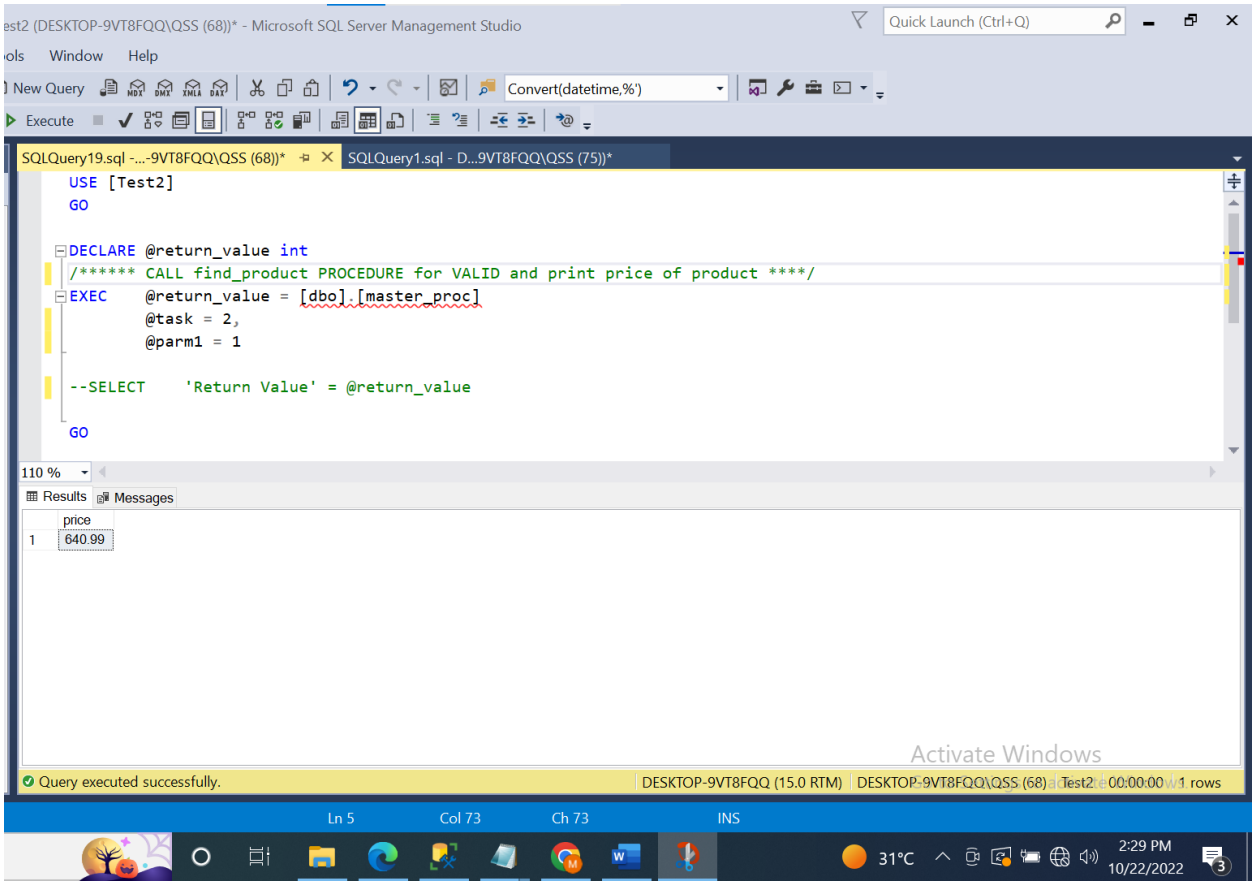
- **find_customer – with a valid customer ID**



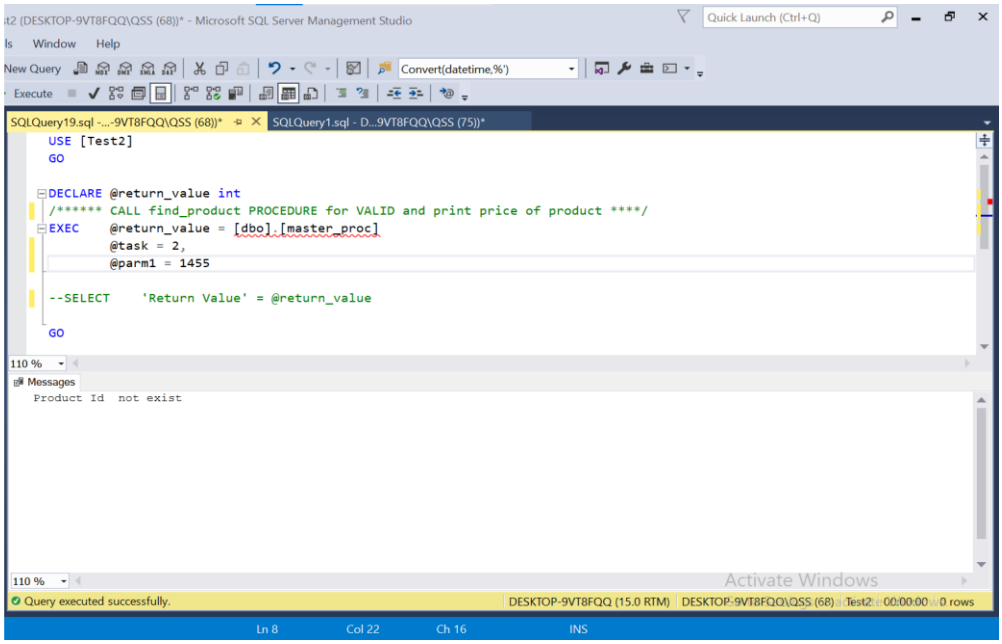
- **find_customer – with an invalid customer ID**


t2 (DESKTOP-9VT8FQQ\QSS (68))* - Microsoft SQL Server Management Studio
Quick Launch (Ctrl+Q)
ls Window Help
New Query
Convert(datetime,%')
Execute
SQLQuery19.sql -...-9VT8FQQ\QSS (68))*
SQLQuery18.sql -...-9VT8FQQ\QSS (59))*
SQLQuery1.sql - D...9VT8FQQ\QSS (75))*
USE [Test2]
GO
DECLARE @return_value int
/****** CALL CUSTOMER PROCEDURE for INVALID ****/
EXEC @return_value = [dbo].[master_proc]
@task = 1,
@parm1 = 1776
--SELECT 'Return Value' = @return_value
GO
110 %
Messages
Not found
110 %
Activate Windows
Query executed successfully.
DESKTOP-9VT8FQQ (15.0 RTM)
DESKTOP-9VT8FQQ\QSS (68)
Test2
00:00:00
0 rows
Ln 5
Col 39
Ch 39
INS

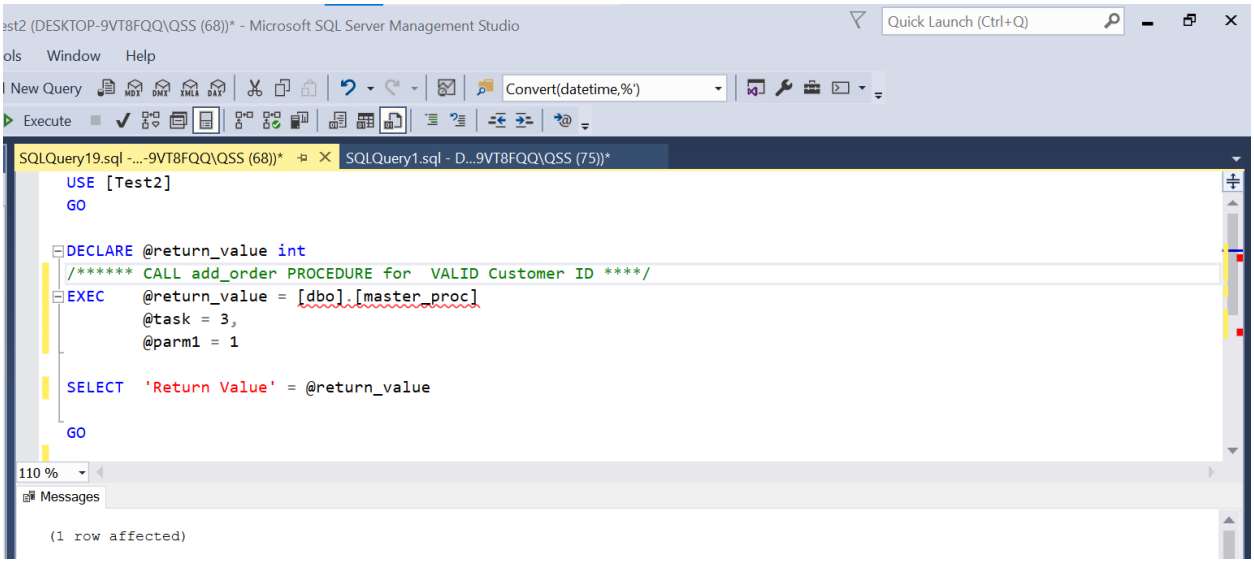
- **find_product – with a valid Product ID**



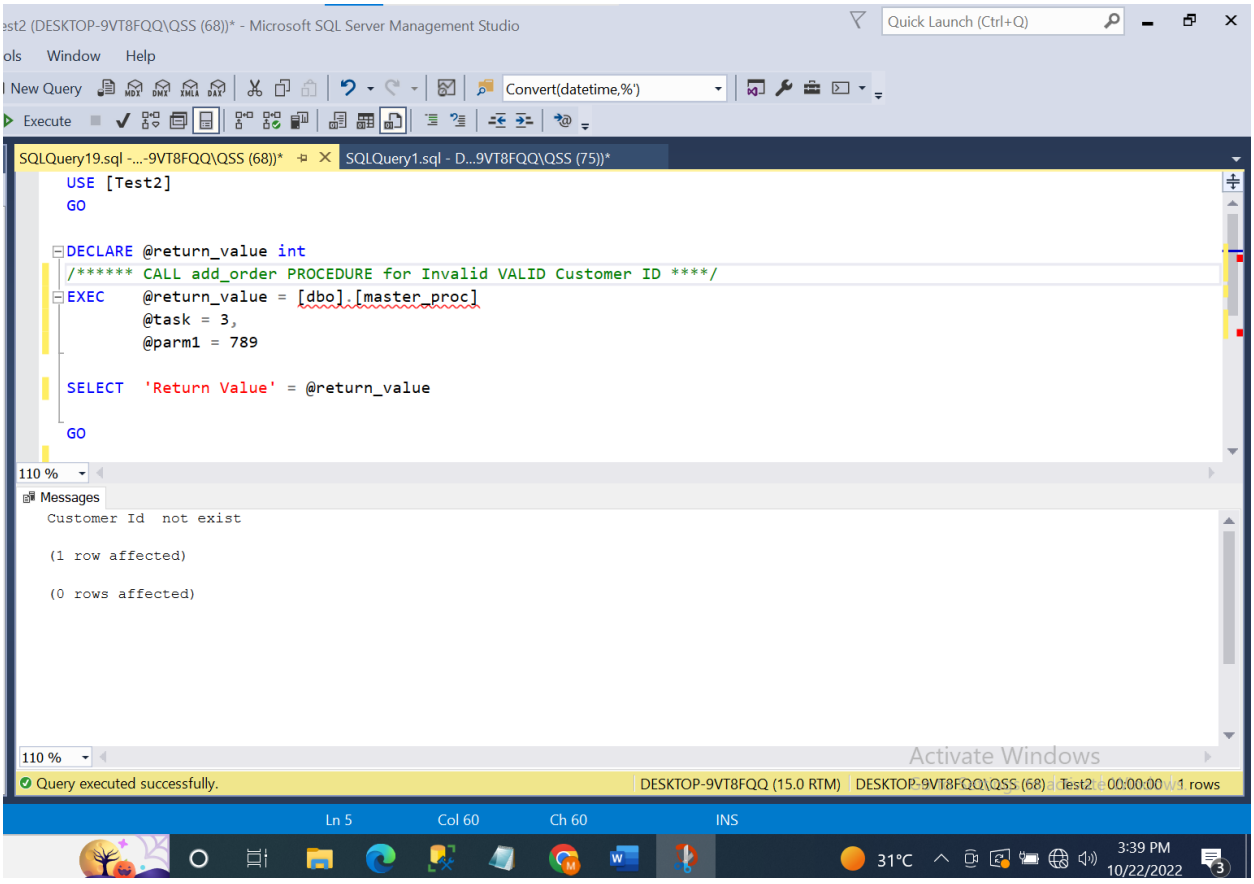
- **find_product–with an Invalid ProductID**



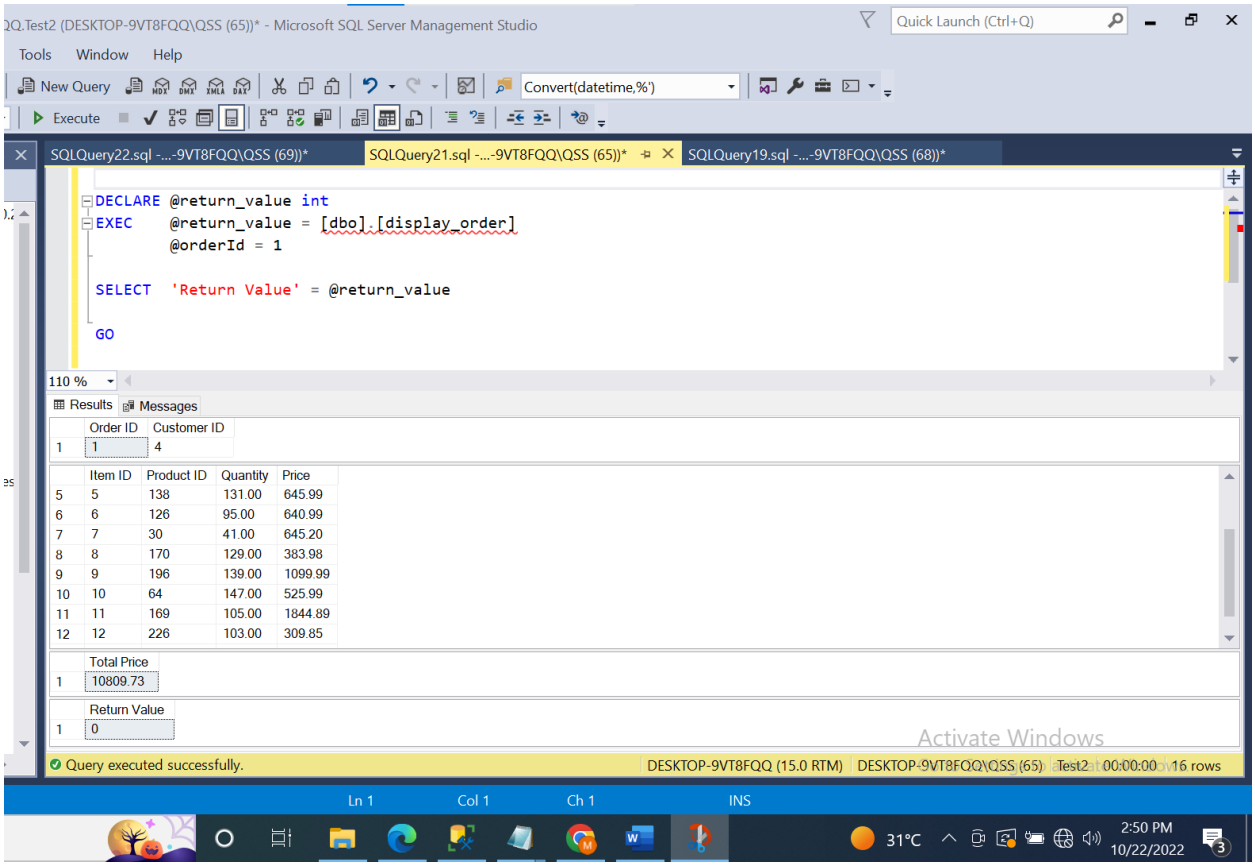
- **add_order – with a valid customer ID**



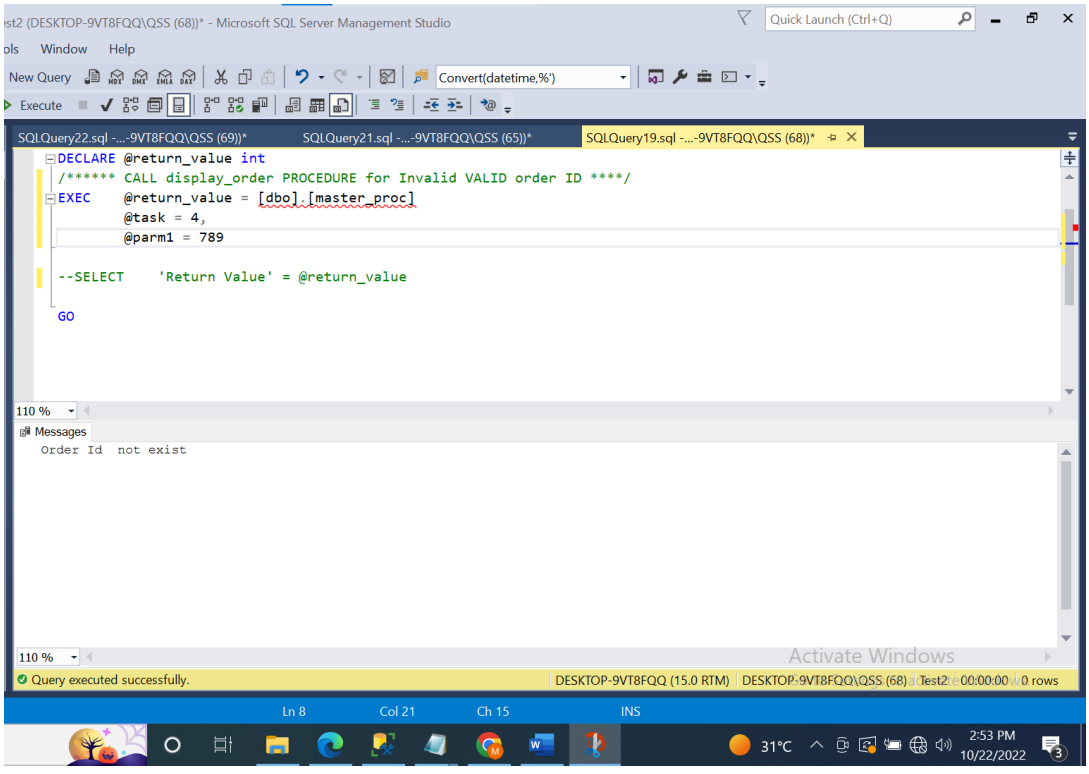
- **add_order – with an invalid customer ID**



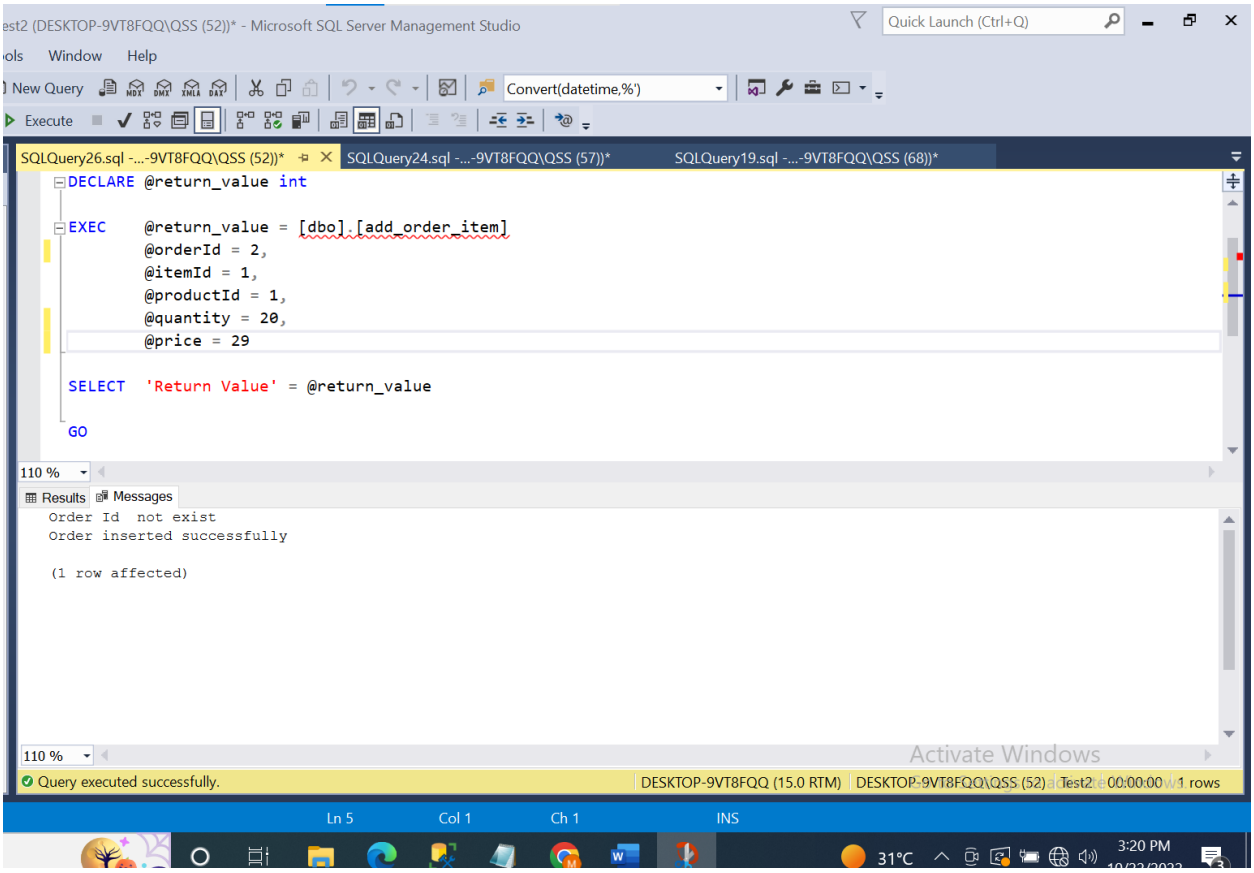
- **display_order – with a valid order ID which has at least 5 order items**

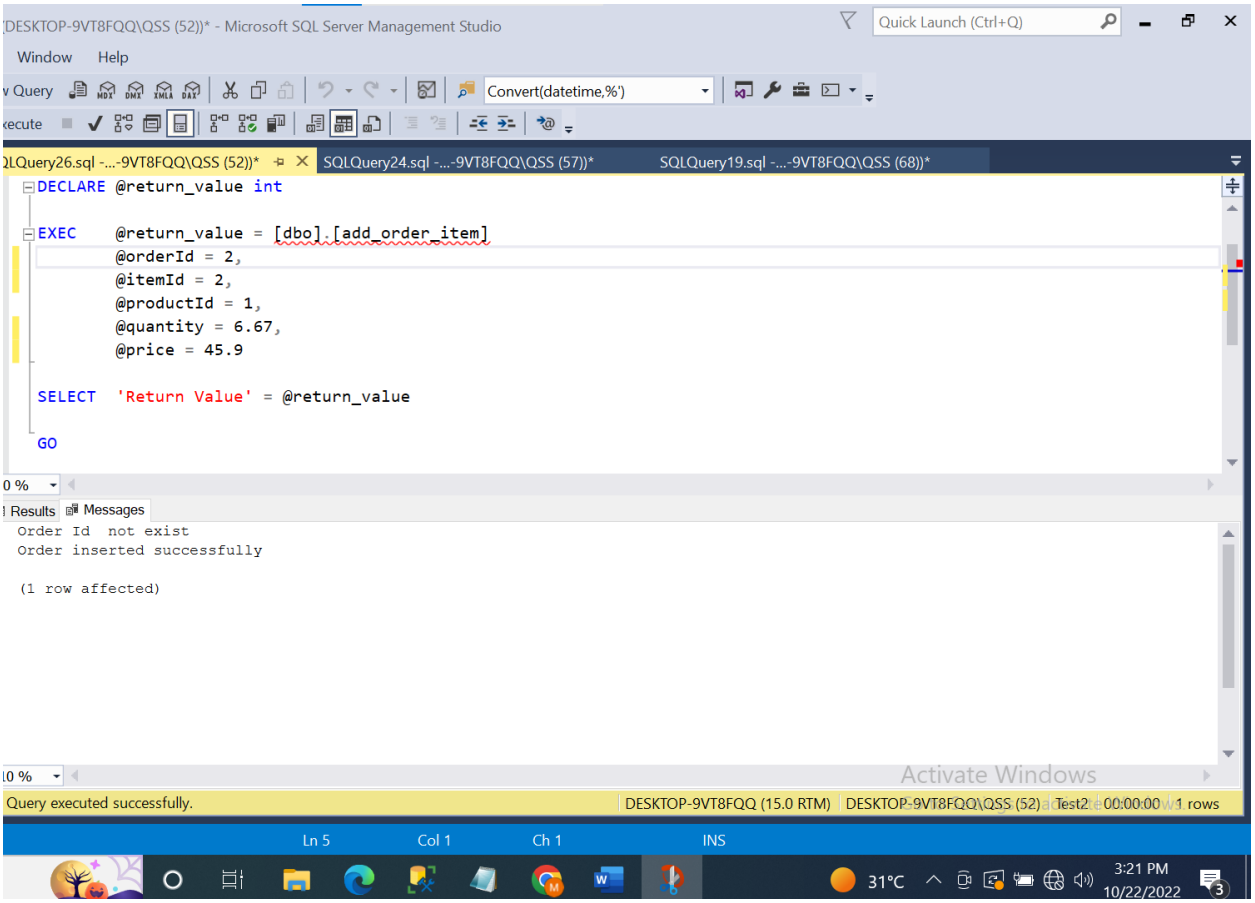


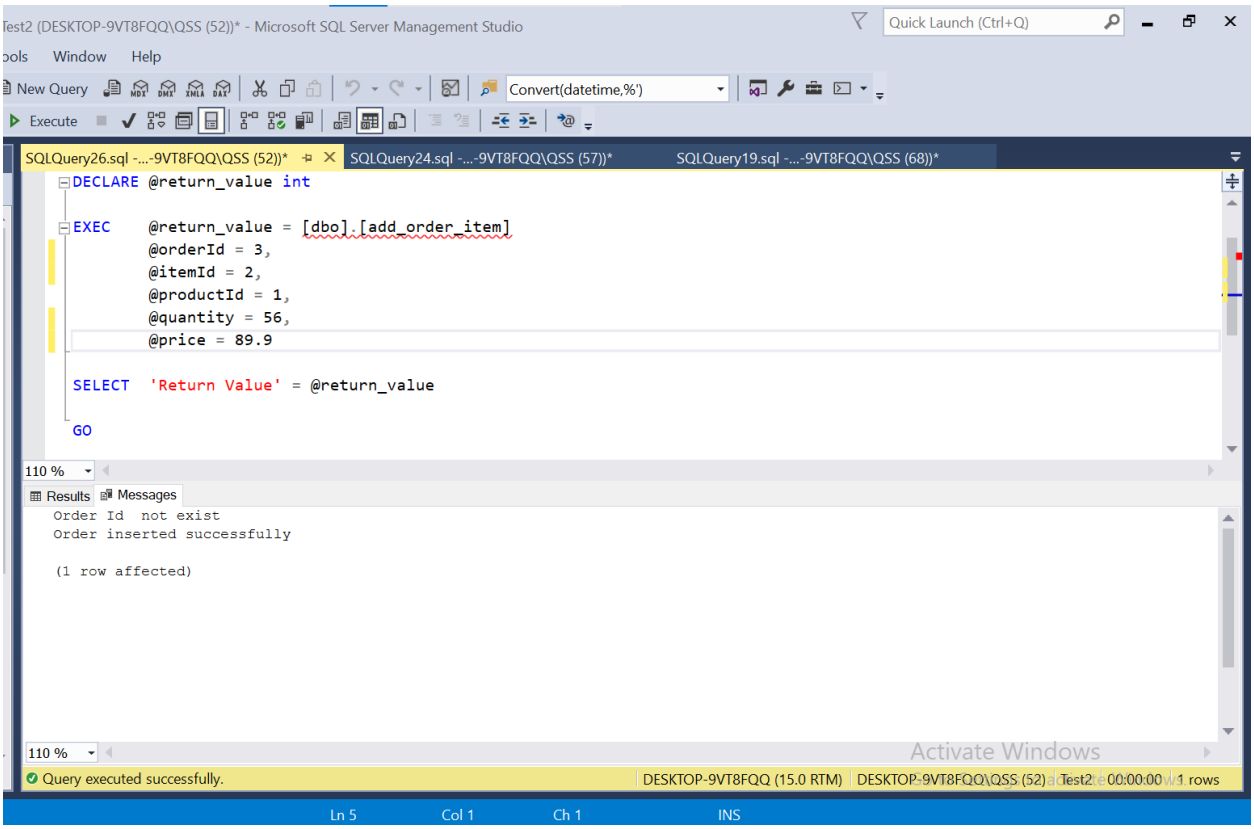
- **display_order – with an invalid order ID**

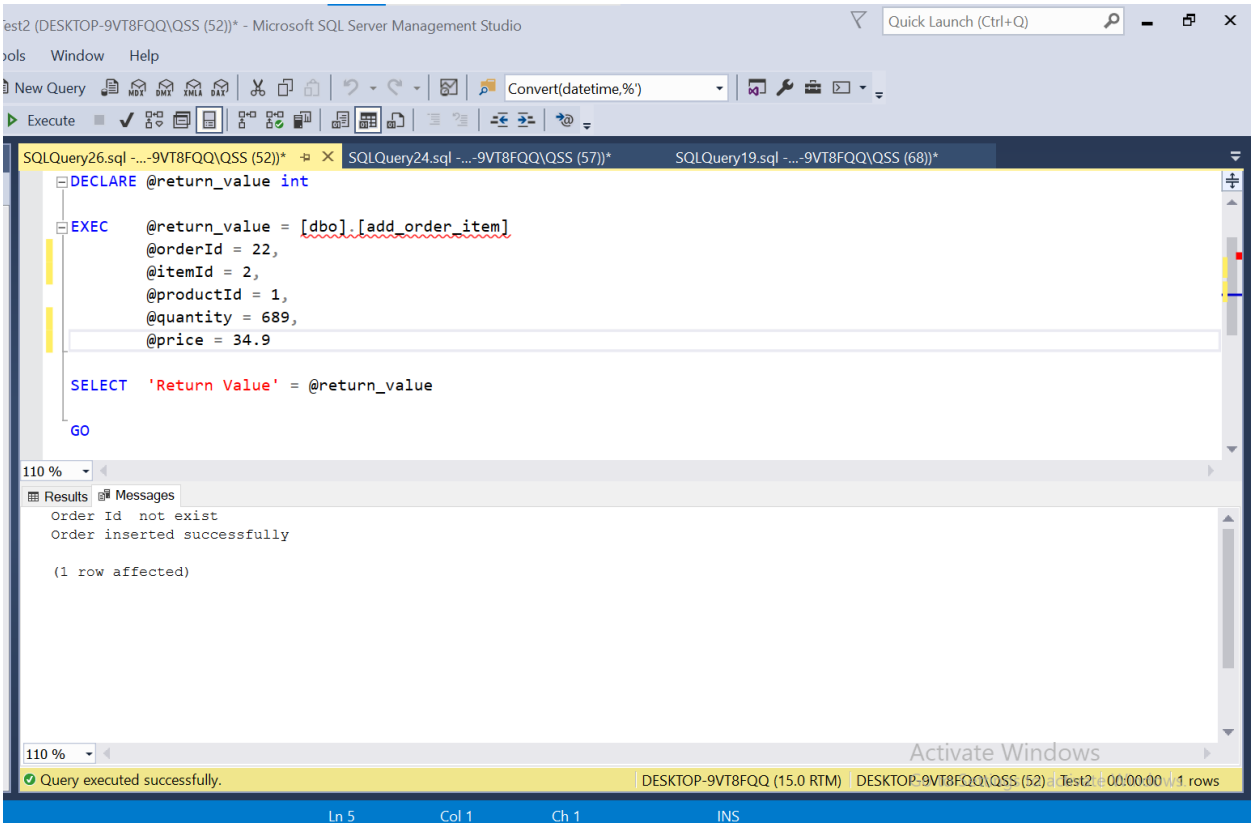


- **add_order_item – should execute successfully 5 times**

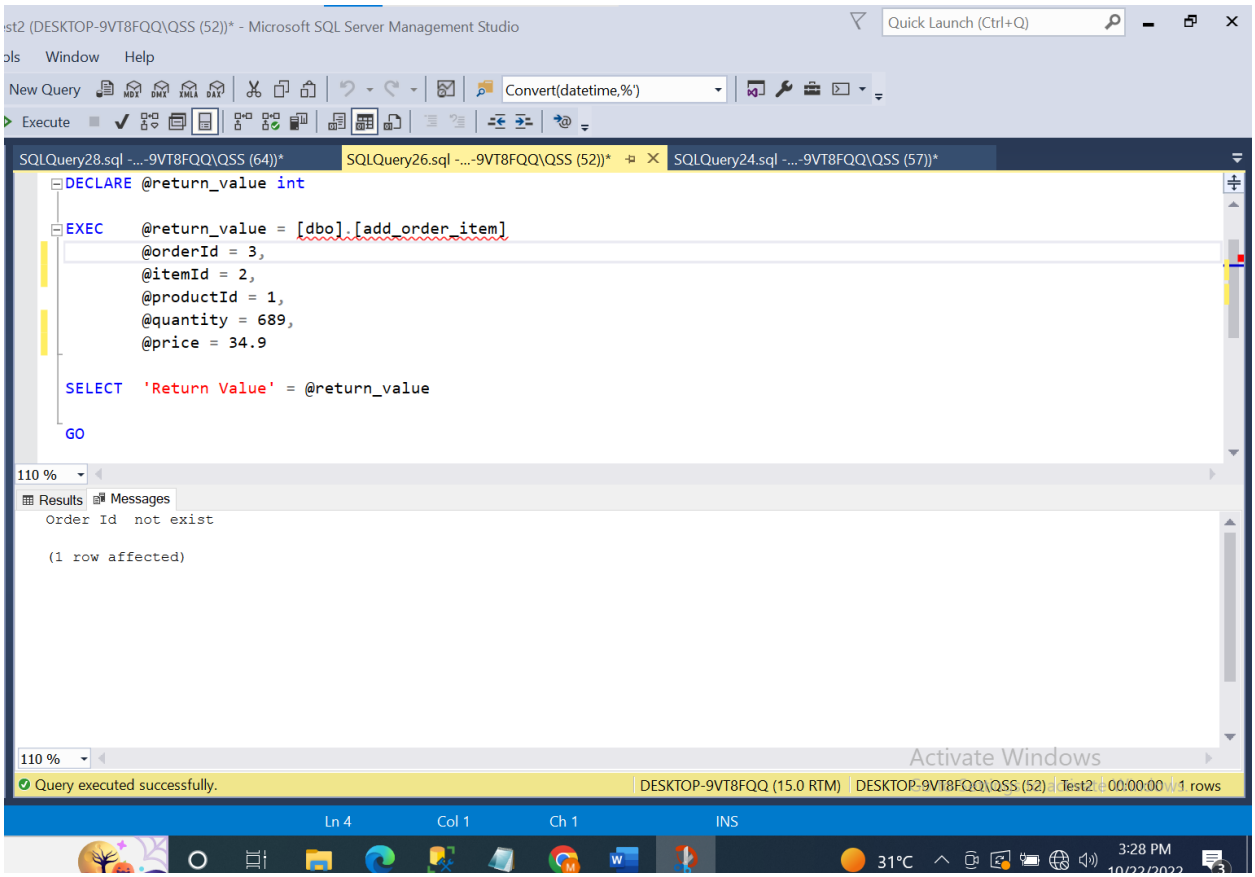



DESKTOP-9VT8FQQ\QSS (52))* - Microsoft SQL Server Management Studio
Quick Launch (Ctrl+Q)
Window
Help
Convert(datetime,%')
SQLQuery26.sql -...-9VT8FQQ\QSS (52))*
SQLQuery24.sql -...-9VT8FQQ\QSS (57))*
SQLQuery19.sql -...-9VT8FQQ\QSS (68))*
DECLARE @return_value int
EXEC @return_value = [dbo].[add_order_item]
@orderId = 2,
@itemId = 2,
@productId = 1,
@quantity = 6.67,
@price = 45.9
SELECT 'Return Value' = @return_value
GO
Results
Messages
Order Id not exist
Order inserted successfully
(1 row affected)
Activate Windows
Query executed successfully.
DESKTOP-9VT8FQQ (15.0 RTM)
DESKTOP-9VT8FQQ\QSS (52)
Test2
00:00:00
1 rows
Ln 5
Col 1
Ch 1
INS
31°C
3:21 PM
10/22/2022





- **add_order_item – should execute with an invalid order**


st2 (DESKTOP-9VT8FQQ\QSS (52))* - Microsoft SQL Server Management Studio
Quick Launch (Ctrl+Q)
ols Window Help
New Query
Execute
Convert(datetime,%')
SQLQuery28.sql -...-9VT8FQQ\QSS (64))*
SQLQuery26.sql -...-9VT8FQQ\QSS (52))*
SQLQuery24.sql -...-9VT8FQQ\QSS (57))*
DECLARE @return_value int
EXEC @return_value = [dbo].[add_order_item]
@orderId = 3,
@itemId = 2,
@productId = 1,
@quantity = 689,
@price = 34.9
SELECT 'Return Value' = @return_value
GO
110 %
Results
Messages
Order Id not exist
(1 row affected)
110 %
Activate Windows
Query executed successfully.
DESKTOP-9VT8FQQ (15.0 RTM)
DESKTOP-9VT8FQQ\QSS (52)
Test2
00:00:00
1 rows
Ln 4
Col 1
Ch 1
INS
31°C
3:28 PM