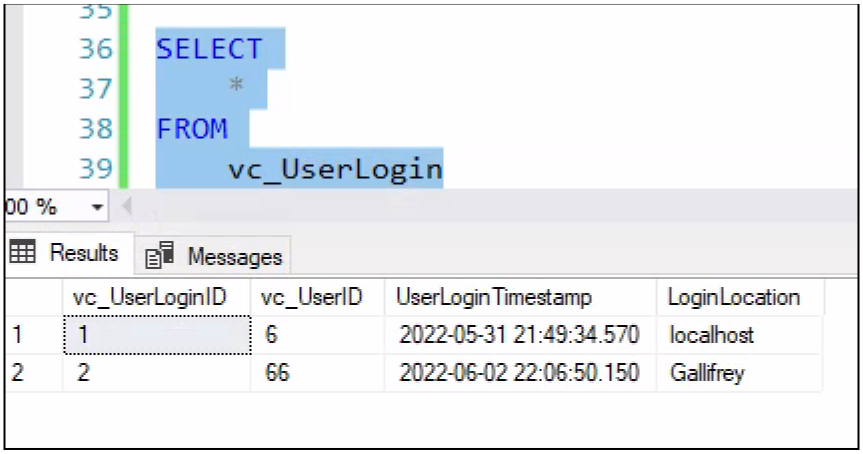
Nick Videtti
IST-659 Week 9 Lab Assignment

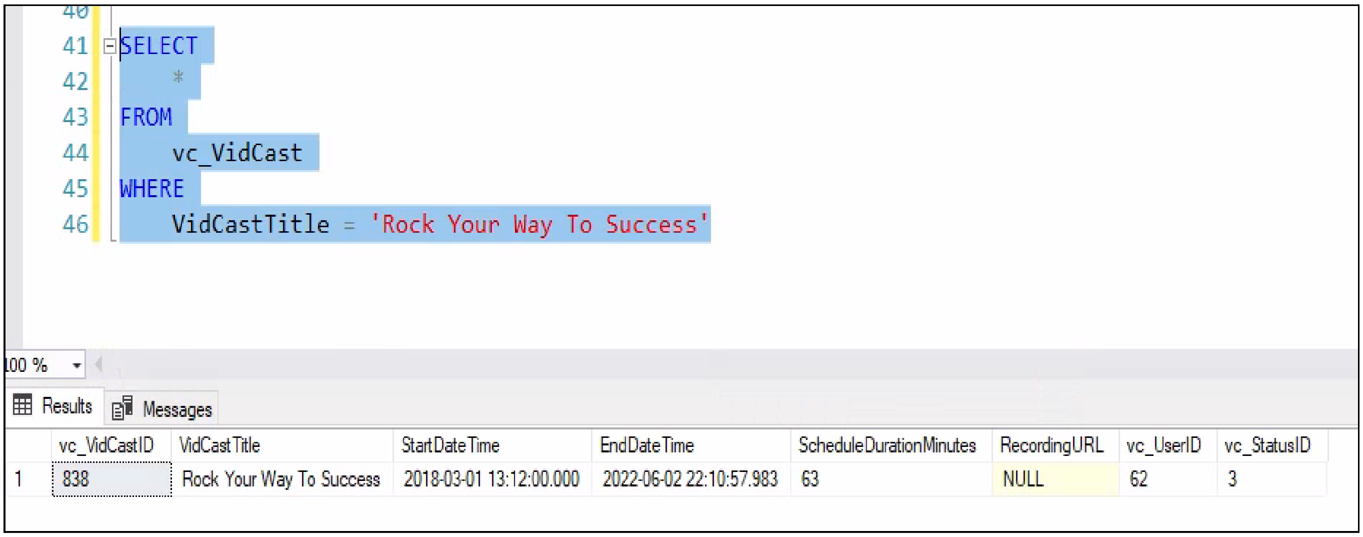
PART 1:

--Creating a guestuser database user
CREATE USER guestuser FOR LOGIN guestuser



```
SELECT
        *
FROM
        vc_UserLogin
```

	vc_UserLoginID	vc_UserID	UserLoginTimestamp	LoginLocation
1	1	6	2022-05-31 21:49:34.570	localhost
2	2	66	2022-06-02 22:06:50.150	Gallifrey



```
SELECT
        *
FROM
        vc_VidCast
WHERE
        VidCastTitle = 'Rock Your Way To Success'
```

	vc_VidCastID	VidCastTitle	StartDateTime	EndDateTime	ScheduleDurationMinutes	RecordingURL	vc_UserID	vc_StatusID
1	838	Rock Your Way To Success	2018-03-01 13:12:00.000	2022-06-02 22:10:57.983	63	NULL	62	3

My Tab:

```
/*
Author: Nick Videtti
Course          : IST659 M407
Term   : Spring (April - June) 2022
*/

----------LAB 9----------

-----PART 1-----

--Creating a guestuser database user
CREATE USER guestuser FOR LOGIN guestuser

--Grant read permission on the user table
GRANT SELECT ON vc_User TO guestuser

--Revoke the select permission!
REVOKE SELECT ON vc_User TO guestuser

--Give them the view instead
GRANT SELECT ON vc_MostProlificUsers TO guestUser

--Allow guestuser to run some stored procedures
GRANT EXECUTE ON vc_AddUserLogin TO guestuser

GRANT EXECUTE ON vc_FinishVidCast TO guestuser

--Find VidCastID for 'Rock Your Way To Success'
SELECT
        vc_VidCastID
FROM
        vc_VidCast
WHERE
        VidCastTitle = 'Rock Your Way To Success'

SELECT
        *
FROM
```

```
	vc_UserLogin

SELECT
	*
FROM
	vc_VidCast
WHERE
	VidCastTitle = 'Rock Your Way To Success'
```

guestuser Tab:

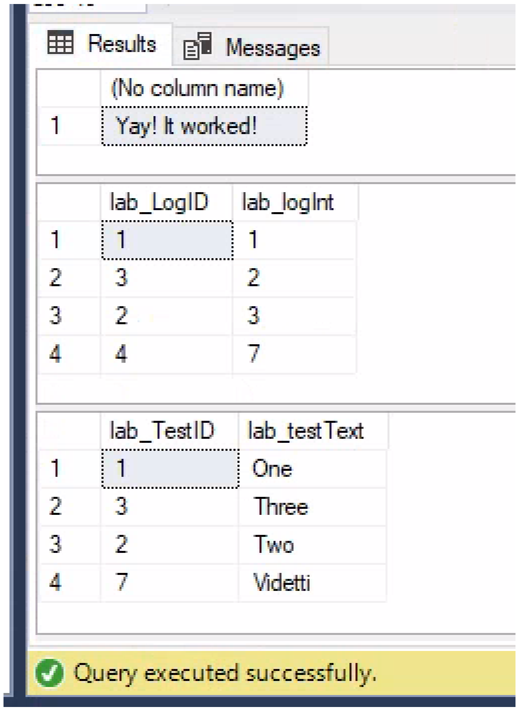
```
USE IST659_M407_nvidetti
--Guestuser's tab
SELECT * FROM vc_User

SELECT
	*
FROM
	vc_MostPorlificUsers

EXEC vc_AddUserLogin 'TheDoctor', 'Gallifrey'

EXEC vc_FinishVidCast 838
```

PART 2:



	(No column name)
1	Yay! It worked!

	lab_LogID	lab_logInt
1	1	1
2	3	2
3	2	3
4	4	7

	lab_TestID	lab_testText
1	1	One
2	3	Three
3	2	Two
4	7	Videtti

✓ Query executed successfully.

The reason that the execution failed at first is because we tried to enter a value of ‘One’ for lab_testTest, but that violated the UNIQUE constraint on the lab_testText column. Since my last name did not already exist as a value for lab_testText, the second execution did not fail.

Part 2 SQL Code:

```
REVOKE SELECT ON vc_MostProlificUsers TO guestUser
REVOKE EXECUTE ON vc_AddUserLogin TO guestuser
REVOKE EXECUTE ON vc_FinishVidCast TO guestuser


-----PART 2-----

--Creating a new table
CREATE TABLE lab_Test(
        lab_TestID INT IDENTITY PRIMARY KEY,
        lab_testText VARCHAR(20) UNIQUE NOT NULL)
```

```
/*This will be a table to keep a log of created lab_Test records.
We don't want to add a row to this if the insert into lab_Test fails.*/
CREATE TABLE lab_Log(
    lab_LogID INT IDENTITY PRIMARY KEY,
    lab_logInt INT UNIQUE NOT NULL)

INSERT INTO lab_Test (lab_testText)
    VALUES ('One'), ('Two'), ('Three')
INSERT INTO lab_Log (lab_logInt)
    SELECT lab_TestID FROM lab_Test

--Step 1: Begin the transaction
BEGIN TRANSACTION
    --Step 2: Assess the state of things.
    DECLARE @rc INT
    SET @rc = @@ROWCOUNT --Initially 0

    --Step 3: Make the change
    --On success, @@ROWCOUNT is incremented by 1
    --On failure, @@ROWCOUNT does not change
    INSERT INTO lab_Test (lab_testText) VALUES ('Videtti')

    --Step 4: Check the new state of things
    IF(@rc = @@ROWCOUNT) --If @@ROWCOUNT was not changed, fail
    BEGIN
        --Step 5, if failed
        SELECT 'Bail out! It failed!'
        ROLLBACK
    END
    ELSE --Success! Continue.
    BEGIN
        --Step 5 if succeeded
        SELECT 'Yay! It worked!'
        INSERT INTO lab_Log (lab_logInt) VALUES (@@IDENTITY)
        COMMIT
    END

SELECT * FROM lab_Log
SELECT * FROM lab_Test
```