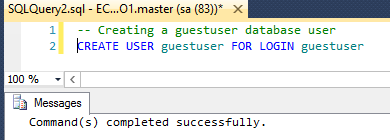
# Lab 09

## Part 1 – Securing Data Objects

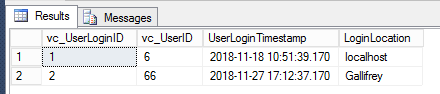
### Creating a Database User

Here is the code and results from creating the *guestuser* using SQL.

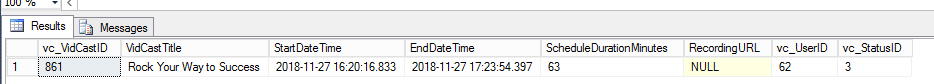


### Managing a User’s Permission

Select all from vc\_UserLogin table.



After updating the “Rock Your Way to Success” VidCast to Finished by the *guestuser*



#### SQL Used for this exercise

##### Sa tab

-- Grant read permissions on this user table

GRANT SELECT ON vc\_User to guestuser

-- revoke vc\_User rights

REVOKE SELECT ON vc\_User to guestuser

-- give them view rights instead

GRANT SELECT ON vc\_MostProlificUsers to guestuser

--Grant various rights

--GRANT SELECT, UPDATE, INSERT, DELETE ON vc\_User to guestuser

-- Allow guestuser to run some stored procedures

GRANT EXECUTE ON vc\_AddUserLogin TO guestuser

GRANT EXECUTE ON vc\_FinishVidCast TO guestuser

-- select all from UserLogin to show results of adding new user as guestuser

SELECT \* from vc\_UserLogin

-- find out what user has this vidcast

SELECT \* from Vc\_Vidcast where VidCastTitle = 'Rock Your Way to Success'

-- check user name from the userid returned from statement above

SELECT \* from vc\_User where vc\_UserID = 62

-- verify that the status is NOT finished by checking the vc\_StatusID against all the status

select \* from vc\_Status

-- Start the vidcast

DECLARE @newVC int

INSERT INTO vc\_VidCast

(VidCastTitle, StartDateTime, ScheduleDurationMinutes, vc\_UserID, vc\_StatusID)

VALUES

('Rock Your Way to Success',

DATEADD(n, -63, GETDATE()),

63,

(SELECT vc\_UserID FROM vc\_User WHERE UserName = 'humdrum'),

(SELECT vc\_StatusID FROM vc\_Status WHERE StatusText = 'Started'))

-- set @newVC as the ID (861 as found) for the record

SET @newVC = @@identity

SELECT \* FROM vc\_VidCast WHERE vc\_VidCastID = @newVC

SELECT \* FROM vc\_VidCast WHERE vc\_VidCastID = 861

##### Guestuser tab

-- Guest user tab

SELECT \* FROM vc\_User

select \* from vc\_MostProlificUsers

DECLARE @addedvalue int

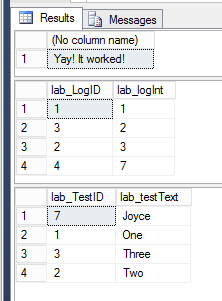
-- Add the user using the procedure we can access with our permissions

EXEC @addedvalue = vc\_AddUserLogin 'TheDoctor', 'Gallifrey'

-- Finish the vidcast 861

EXEC vc\_FinishVidCast 861

## Part 2 – Data Integrity Through Transactions



It is very clear why the first transaction failed and the second did not, and it appears in the messages pain, so I feel like I am cheating, but I would have guessed that anyway.

The lab\_testText is set a UNIQUE and we already had a ‘One’ in that table, so when we tried to insert it again – it failed. However, since ‘Joyce’ was not in the table, it succeeded. This is working as I expected that it would.