29 November 2020
Lab 9

Part 1

1
```
-- Creating a guestuser database user
CREATE USER guestuser FOR LOGIN guestuser
```

2

	vc_UserLoginID	vc_UserID	UserLoginTimestamp	LoginLocation
1	1	6	2020-11-24 18:40:42.200	LOCALHOST
2	2	66	2020-11-29 17:35:12.690	Gallifrey

3

	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	2020-11-29 18:07:18.740	63	NULL	62	3

4
Guestuser code

```
-- Guestuser's tab
use IST659_M400

SELECT * FROM vc_User

select * from vc_mostprolificusers

EXECUTE vc_AddUserLogin 'TheDoctor', 'Gallifrey'

EXECUTE vc_FinishVidCast 838
```

My code

```
-- 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


 SELECT * From vc_vidcast WHERE vc_VidCast.VidCastTitle = 'rock your way to success'

 SELECT * FROM vc_UserLogin

REVOKE SELECT ON vc_MostProlificUsers to guestuser

REVOKE EXECUTE ON vc_adduserlogin to guestuser

REVOKE EXECUTE ON vc_FinishVidCast to guestuser
```
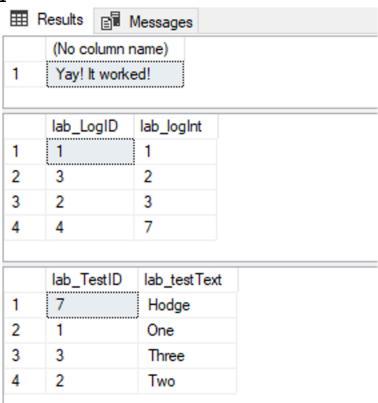
Part 2

1

	(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	7	Hodge
2	1	One
3	3	Three
4	2	Two

Interestingly enough, I did not get the "Bail out! It Failed!" response to the first code. The expected results flashed on the screen for a half second, but then I got a unique key constraint error and that was my final result. Obviously, this is what should happen, since we already added 'One', but I'm not sure why I didn't get the expected result from the lab instructions. I went over my code multiple times and it looks correct.

The second time, using my last name, worked fine (as seen above). This was the expected result because 'Hodge' had not been added yet to the lab_Test table.

2

```sql
-- Creating a new table
CREATE TABLE lab_Test (
        lab_TestID int identity primary key
        , lab_testText varchar(20) unique not null
        )

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


BEGIN TRANSACTION
        DECLARE @rc int
        SET @rc = @@ROWCOUNT

        INSERT INTO lab_Test (lab_testText) VALUES ('Hodge')

        IF (@rc = @@ROWCOUNT)
        BEGIN
                SELECT  'Bail out! It Failed!'
                ROLLBACK
        END
        ELSE
        BEGIN
                SELECT 'Yay! It worked!'
                INSERT INTO lab_Log (lab_logInt) VALUES (@@identity)
                commit
        END

SELECT * FROM lab_Log
SELECT * FROM lab_Test
```