Kendra Osburn December 8, 2018 Lab 09

CREATING A DATABASE USER

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

11	Results	hessa Messa	ages		
	vc_UserLoginID		nID vc_UserID UserLoginTimestamp		LoginLocation
1	1		6	2018-12-02 16:29:53.390	localhost
2	2		66	2018-12-08 13:28:41.120	Gallifrey

BEFORE GUESTUSER "FINISHED" VIDCAST

0 %	• •							
1	Results 🛅 Me	ssages						
	vc_VidCastID	VidCastTitle	Start Date Time	EndDateTime	ScheduleDurationMinutes	RecordingURL	vc_UserID	vc_StatusID
	838	DIV W TO	2018-03-01 13:12:00.000	NULL	63	NULL	62	-

AFTER GUESTUSER "FINISHED" VIDCAST

100 9	6 🕶 <							
	Results 🛅 Mes	ssages						
	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	2018-12-08 13:34:17.063	63	NULL	62	3

GUESTUSER CODE

SELECT * FROM vc_MostProlificUsers EXEC vc_AddUserLogin 'TheDoctor', 'Gallifrey' EXEC vc_FinishVidcast 838

MY CODE

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

SELECT * FROM vc_User

-- revoke select permissions!

REVOKE SELECT ON vc_User to guestuser

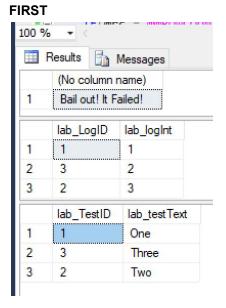
--Grant read permission on the user table GRANT SELECT ON vc_MostProlificUsers to guestuser

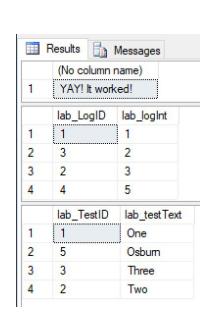
-- allow guestuser to run some stored procedures GRANT EXECUTE ON vc_AddUserLogin TO guestuser GRANT EXECUTE ON vc_FinishVidCast TO guestuser

SELECT * FROM vc_UserLogin

-- finding info about this clearly revolutionary vidcast SELECT * FROM vc_VidCast WHERE VidCastTitle LIKE 'Rock Your Way To Success'

-- revoking for safety REVOKE EXECUTE ON vc_AddUserLogin to guestuser REVOKE EXECUTE ON vc_FinishVidCast to guestuser





IN MY OWN WORDS, WHY DID ONE FAIL AND TWO SUCCEED?

In the first attempt, we were trying to insert a value that already existed into the database, so it threw an error and didn't execute the rest of the statement -- it BAILED OUT!!

In the second attempt, we inserted a new value so when it got to the "did this transaction succeed" line, the code said "YES!!"

FINAL SQL

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

SELECT * FROM vc_User

-- revoke select permissions!

SECOND

```
REVOKE SELECT ON vc_User to guestuser
```

--Grant read permission on the user table 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_UserLogin

-- finding info about this clearly revolutionary vidcast SELECT * FROM vc_VidCast WHERE VidCastTitle LIKE 'Rock Your Way To Success'

REVOKE EXECUTE ON vc_AddUserLogin to guestuser REVOKE EXECUTE ON vc_FinishVidCast to guestuser

```
-- 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
```

--STEP 1 BEGIN TRANSACTION BEGIN TRANSACTION -- STEP 2 ASSESS DECLARE @rc int SET @rc = @@ROWCOUNT -- Initially 0

> -- STEP 3 MAKE CHANGE INSERT INTO lab_Test (lab_testText) VALUES ('Osburn')

```
-- STEP 4 CHECK 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

SELECT * FROM lab_Log SELECT * FROM lab_Test