

Lab 9 – Database Security

Deliverable

Word or PDF File containing your work

Set up

In this lab, you will apply the concepts learned in this week's lectures and readings. You'll need access to the SQL Server database created for you on the iSchool SQL Server to perform these tasks. You will also need a partner for this lab. You will be granting them the ability to add data to and read data from a table using stored procedures and views.

Steps

Create a blank document to record your answers to the questions called out below. Ensure your name is at the top of the document!

You'll want to coordinate a time to execute these commands with your partner. They are listed in 2 columns below and in the order they should be run. After you execute the code for each block, paste a screenshot of your results of each step to your answers doc. Since you will need to run the code in this lab as yourself and as the partner to another lab, your answers document should have 2 parts, one where you run this code against your own database and one where you are using your partner's database.

Step	You run	Your partner runs
1	<pre> 1 CREATE TABLE Lab9 (2 Lab9ID int identity primary key 3 , Lab9Text char(30) not null 4 , EnteredBy char(30) not null 5) 6 GO 7 CREATE VIEW PartnerLab9 AS 8 SELECT * FROM Lab9 WHERE EnteredBy = 'Partner' 9 10 GO 11 CREATE PROCEDURE AddPartnerLab9 (@Lab9Text char(30)) AS 12 BEGIN 13 INSERT INTO Lab9 (Lab9Text, EnteredBy) VALUES (@Lab9Text, 'Partner') 14 END 15 GO 16 CREATE VIEW MyLab9 AS 17 SELECT * FROM Lab9 WHERE EnteredBy = 'Me' 18 GO 19 CREATE PROCEDURE AddMyLab9 (@Lab9Text char(30)) AS 20 BEGIN 21 INSERT INTO Lab9 (Lab9Text, EnteredBy) VALUES (@Lab9Text, 'Me') 22 END 23 GO 24 EXEC AddMyLab9 'First Value' 25 EXEC AddMyLab9 'Second Value' 26 EXEC AddMyLab9 'Third Value' 27 EXEC AddMyLab9 'Fourth Value' 28 SELECT * FROM MyLab9 29 SELECT * FROM Lab9 </pre>	
2	<pre> -- Replace netid with your partner's actual net id CREATE USER [AD\netid] FOR LOGIN [AD\netid] GO GRANT EXECUTE ON AddPartnerLab9 to [AD\netid] GRANT SELECT ON PartnerLab9 to [AD\netid] </pre>	
3		<pre> USE netid659 GO SELECT * FROM PartnerLab9 </pre>

4		<pre>EXEC AddPartnerLab9 'First Partner Record' EXEC AddPartnerLab9 'Second Partner Record' EXEC AddPartnerLab9 'Third Partner Record' EXEC AddPartnerLab9 'Fourth Partner Record' SELECT * FROM PartnerLab9</pre>
5	<pre>SELECT * FROM MyLab9 SELECT * FROM Lab9</pre>	
6		<pre>DELETE Lab9 WHERE EnteredBy = 'Partner'</pre> <p>Did this work? Why or why not? Add your answer to the answers doc.</p>
7	<pre>REVOKE EXECUTE ON AddPartnerLab9 to [AD\netid] REVOKE SELECT ON PartnerLab9 to [AD\netid]</pre>	
8		<pre>EXEC AddPartnerLab9 'Fifth Partner Record'</pre> <p>Did this work? Why or why not? Add your answer to the answers doc.</p>

9. Lastly, code a stored procedure call AddUser that accepts a netid as a varchar and performs the following steps:

1. Create a database user based on the login using the netid passed to the stored procedure. Use Step 2 as a guide.
2. Grant the new login the ability to run the AddPartnerLab9 stored procedure.
3. Grant the new login the ability to select all records from the lab9 table

Create this stored procedure and execute it using your instructor's netid. Add your code to your answer doc (copy paste the code or take a screenshot)