

# Radioactivity LabServer Database

[RadioactivityLabServerDatabase.htm - uqlpayne 29 Jul 2013]

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## Requirements

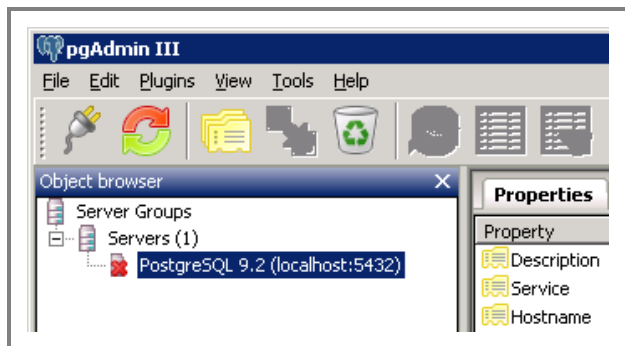
- PostgreSQL 9.2 is installed and running.
- The *UQ-iLab-BatchLabServer-Java* GitHub repository has been downloaded as a ZIP file from:

<https://github.com/uqlpayne/UQ-iLab-BatchLabServer-Java>

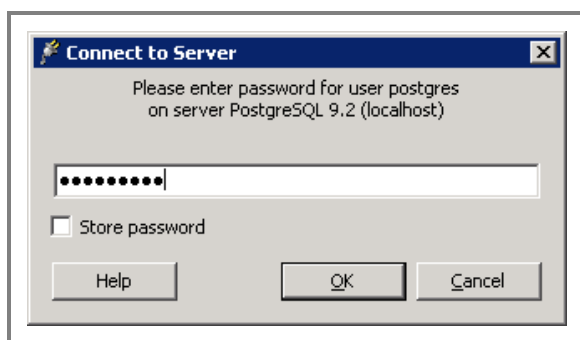
## PostgreSQL pgAdmin III

- Run the PostgreSQL *pgAdmin III* program.

In the *Object browser* panel, right-click *PostgreSQL 9.2 (localhost:5432)* and select *Connect* from the popup menu to display the *Connect to Server* window.



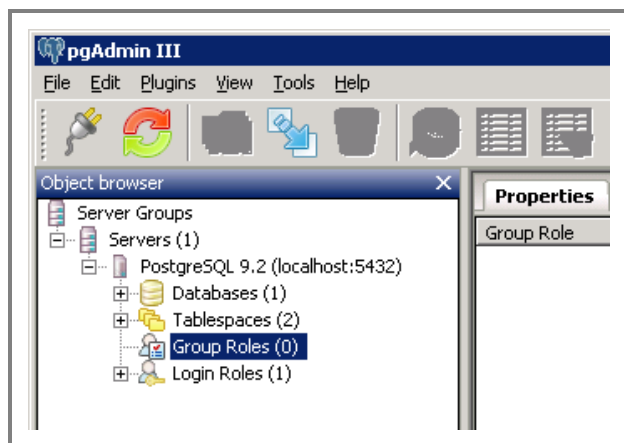
Enter the password for the user *postgres* and click the *OK* button.



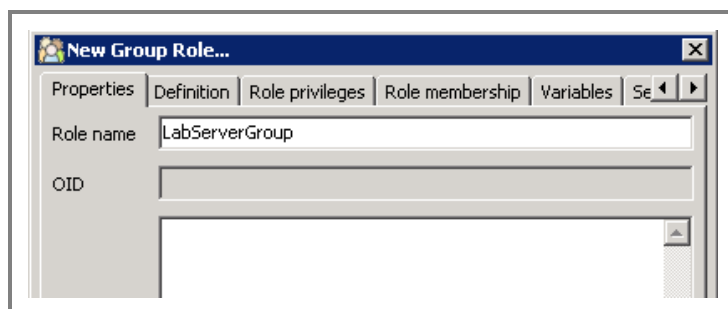
## Create Group Role

If you have already completed the *Template LabServer Database* tutorial then you will have already created a LabServer Group Role for the database and can skip this section.

- In the *Object browser* panel, right-click *Group Roles* and select *New Group Role...* from the popup menu to display the *New Group Role...* window.



For *Role name*, enter LabServerGroup.

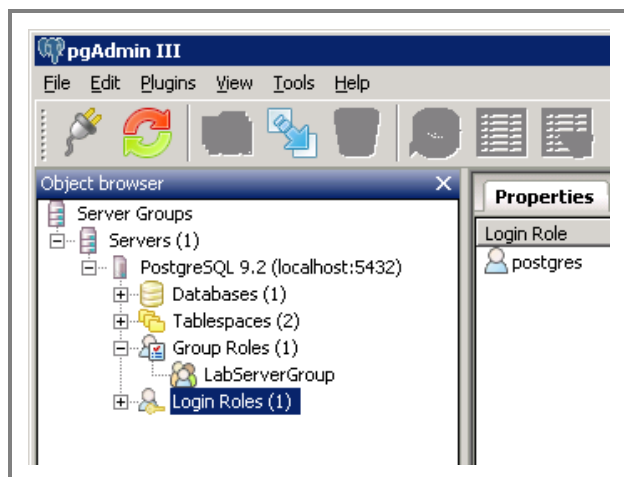


Click the *OK* button to close the *New Group Role...* window.

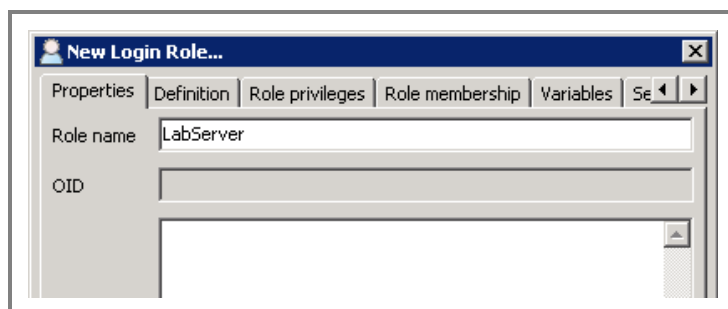
## Create Login Role

If you have already completed the *Template LabServer Database* tutorial then you will have already created a LabServer Login Role for the database and can skip this section.

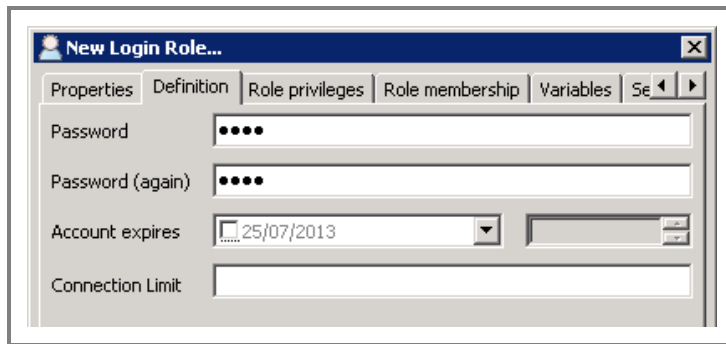
- In the *Object browser* panel, right-click *Login Roles* and select *New Login Role...* from the popup menu to display the *New Login Role...* window.



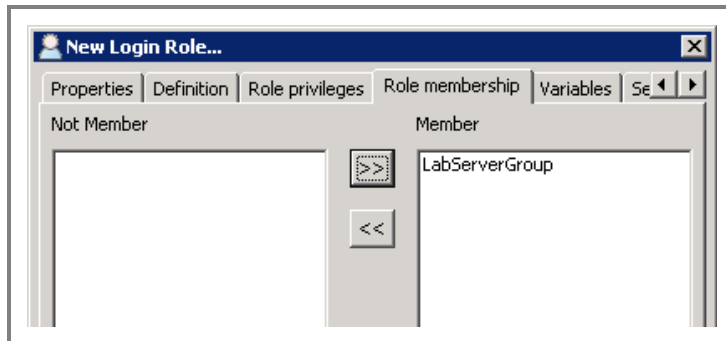
Select the *Properties* tab. For *Role name*, enter LabServer.



Select the *Definition* tab. For *Password* and *Password (again)*, enter *ilab*.



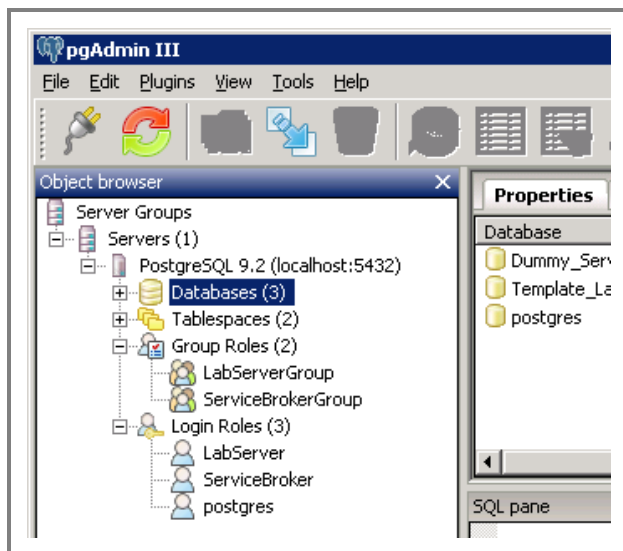
Select the *Role membership* tab. In the left panel under *Not Member*, select *LabServerGroup* and click the >> button.



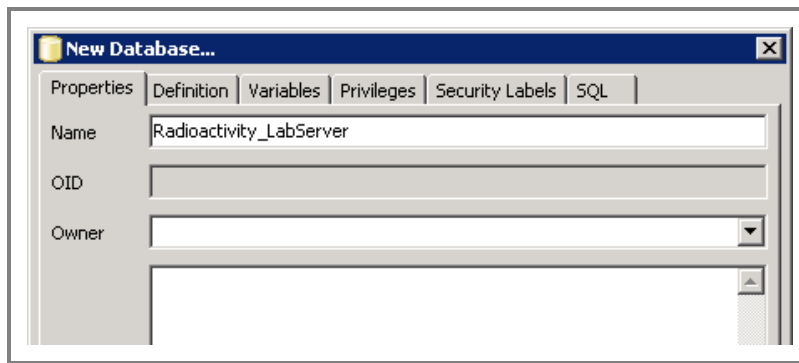
Click the *OK* button to save the changes and close the *New Login Role...* window.

## Create Database

- In the *Object browser* panel, right-click *Databases* and select *New Database...* from the popup menu to display the *New Database...* window.

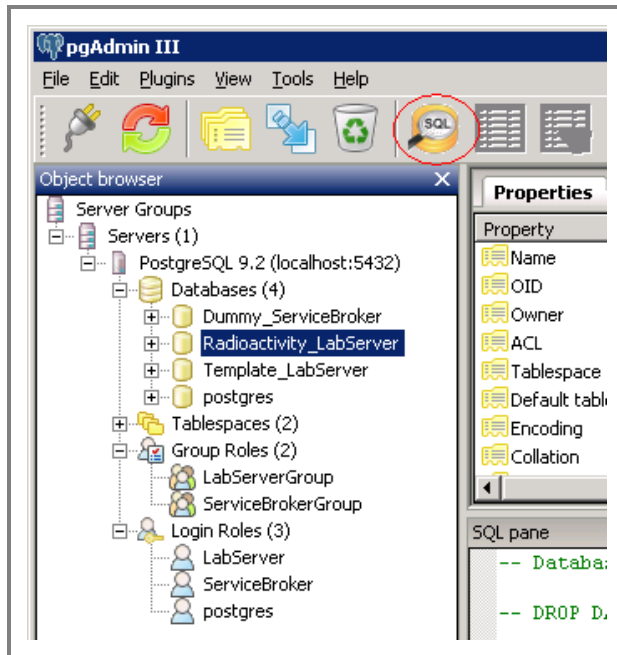


Select the *Properties* tab. For *Name*, enter *Radioactivity\_LabServer*.

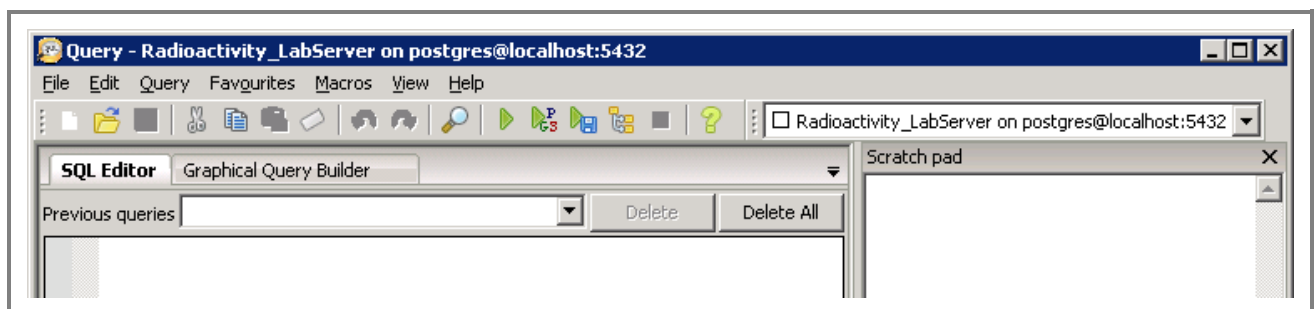


Click the OK button to save the changes and close the *New Database...* window.

- In the *Object browser* panel, under *Databases*, click *Radioactivity\_LabServer* and then click the *Execute arbitrary SQL queries* toolbar button to open a *Query* window.



Check that the *Radioactivity\_LabServer* database is selected in the dropdown list. If not, tables and functions will be created or overwritten in the selected database.



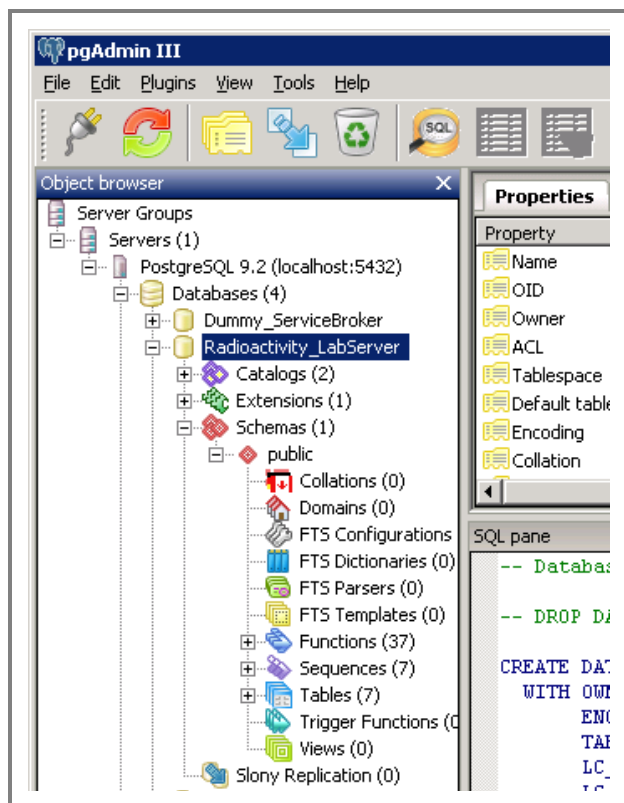
For each of the following SQL scripts in the *UQ-iLab-BatchLabServer-Java/Database/PostgreSQL* folder, in the order shown, execute the query by selecting *Query->Execute* from the menu.

1. *LabServer\_Tables.sql*
2. *LabServer\_Procedures.sql*
3. *LabServer\_Defaults.sql*
4. *RadioactivityLabServer\_Defaults.sql*

All queries should complete successfully producing various results in the *Output pane*. Close the *Query* window.

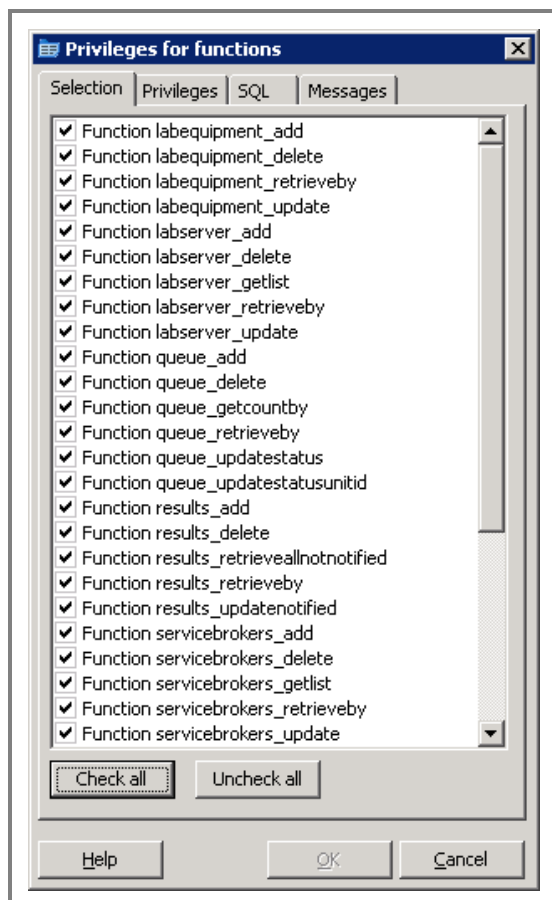
## Update Privileges

- In the *Object browser* panel, expand the *Radioactivity\_LabServer* node and then expand the *Schemas* node. Finally, expand the *public* node so that *Functions*, *Sequences* and *Tables* are visible.



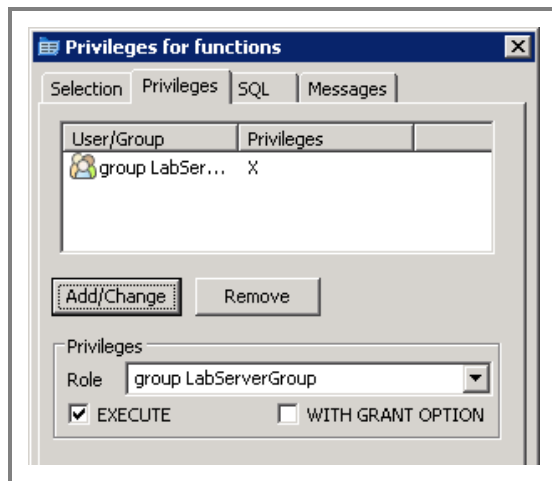
Right-click *Functions* and select *Grant Wizard...* from the popup menu to display the *Privileges for functions* window.

Select the *Selection* tab and click the *Check all* button.

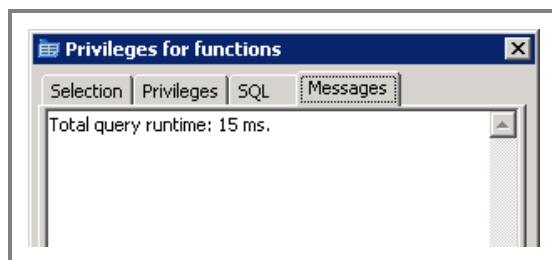


Select the *Privileges* tab. In the *Privileges* field, select group *LabServerGroup* from the dropdown list and check *EXECUTE*.

Click the *Add/Change* button.



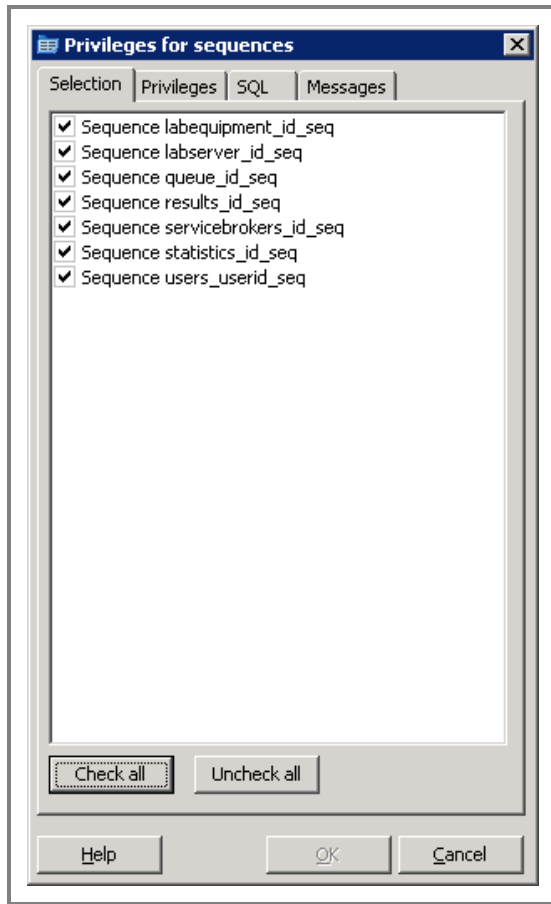
Click the *OK* button to save the changes.



Click the *Done* button to close the *Privileges for functions* window.

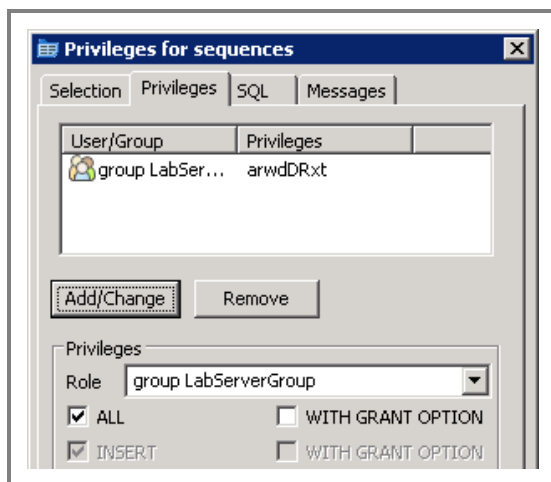
- In the *Object browser* panel, right-click *Sequences* and select *Grant Wizard...* from the popup menu to display the *Privileges for sequences* window.

Select the *Selection* tab and click the *Check all* button.

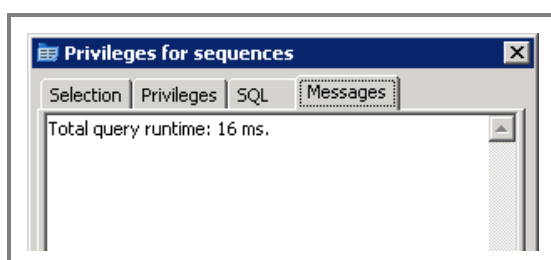


Select the *Privileges* tab. In the *Privileges* field, select group *LabServerGroup* from the dropdown list and check *ALL*.

Click the *Add/Change* button.



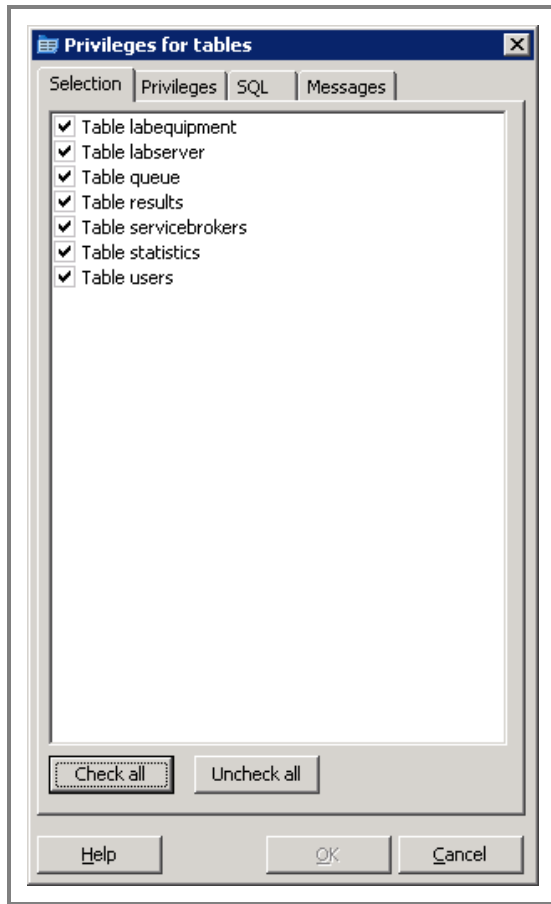
Click the *OK* button to save the changes.



Click the *Done* button to close the *Privileges for sequences* window.

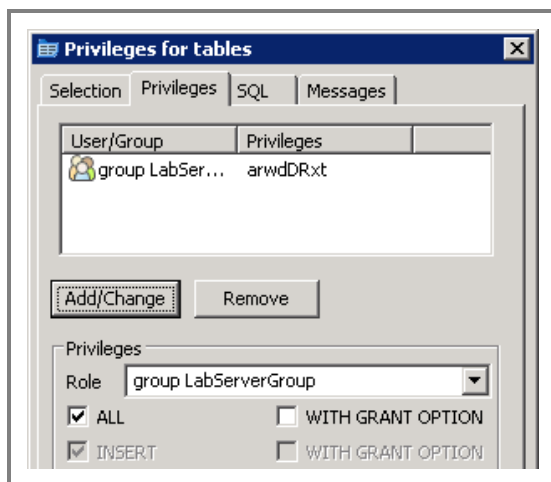
- In the *Object browser* panel, right-click *Tables* and select *Grant Wizard...* from the popup menu to display the *Privileges for tables* window.

Select the *Selection* tab and click the *Check all* button.

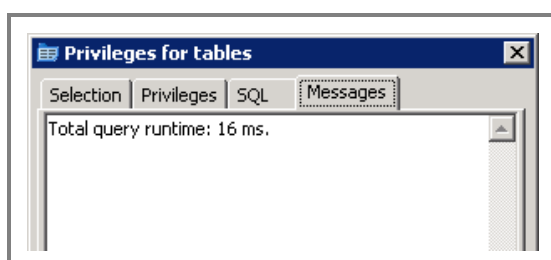


Select the *Privileges* tab. In the *Privileges* field, select group *LabServerGroup* from the dropdown list and check *ALL*.

Click the *Add/Change* button.



Click the *OK* button to save the changes.



Click the *Done* button to close the *Privileges for tables* window.



**That's it.**