CNT 4714: Enterprise Computing Summer 2012

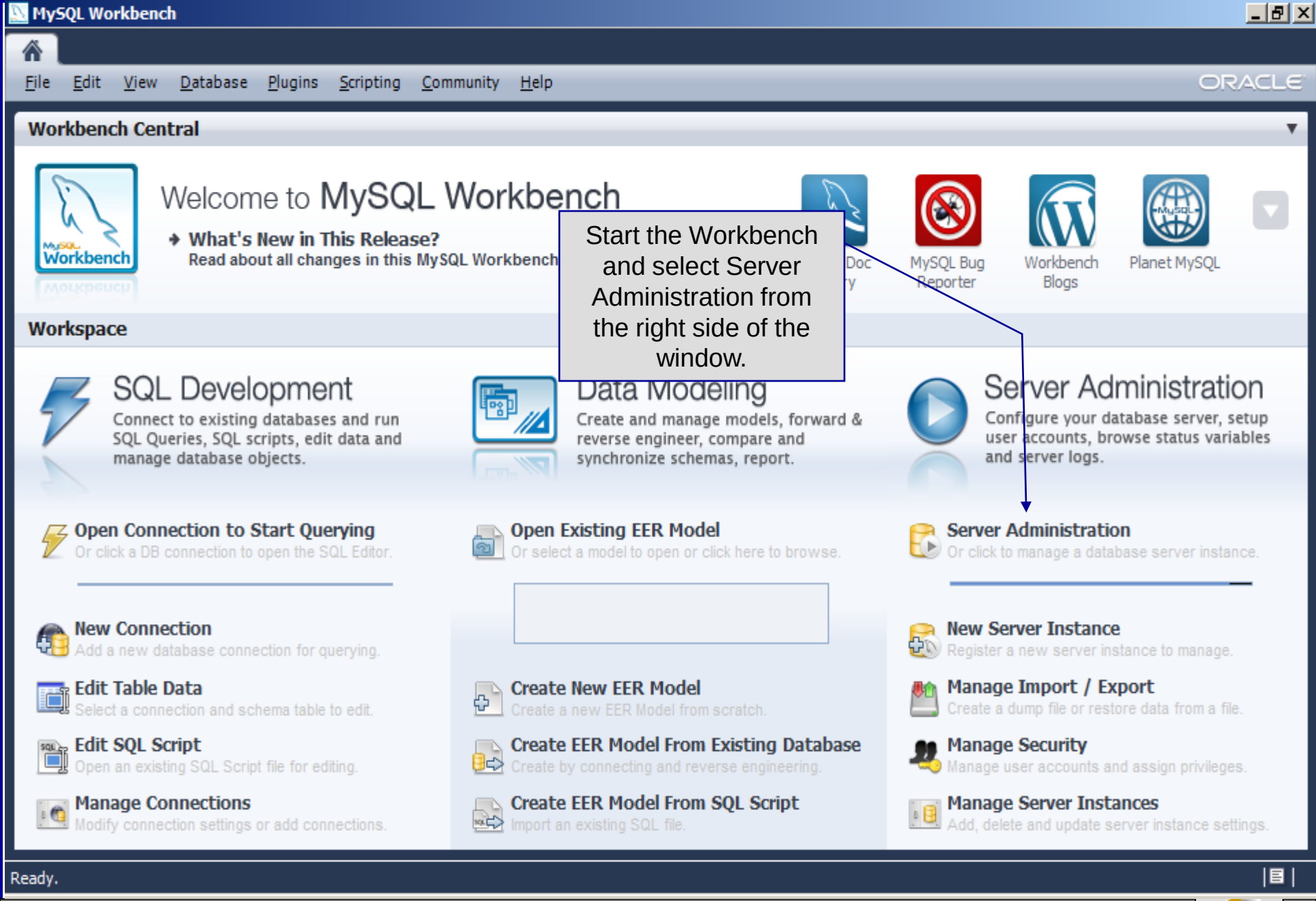
Client User Creation In The MySQL Workbench

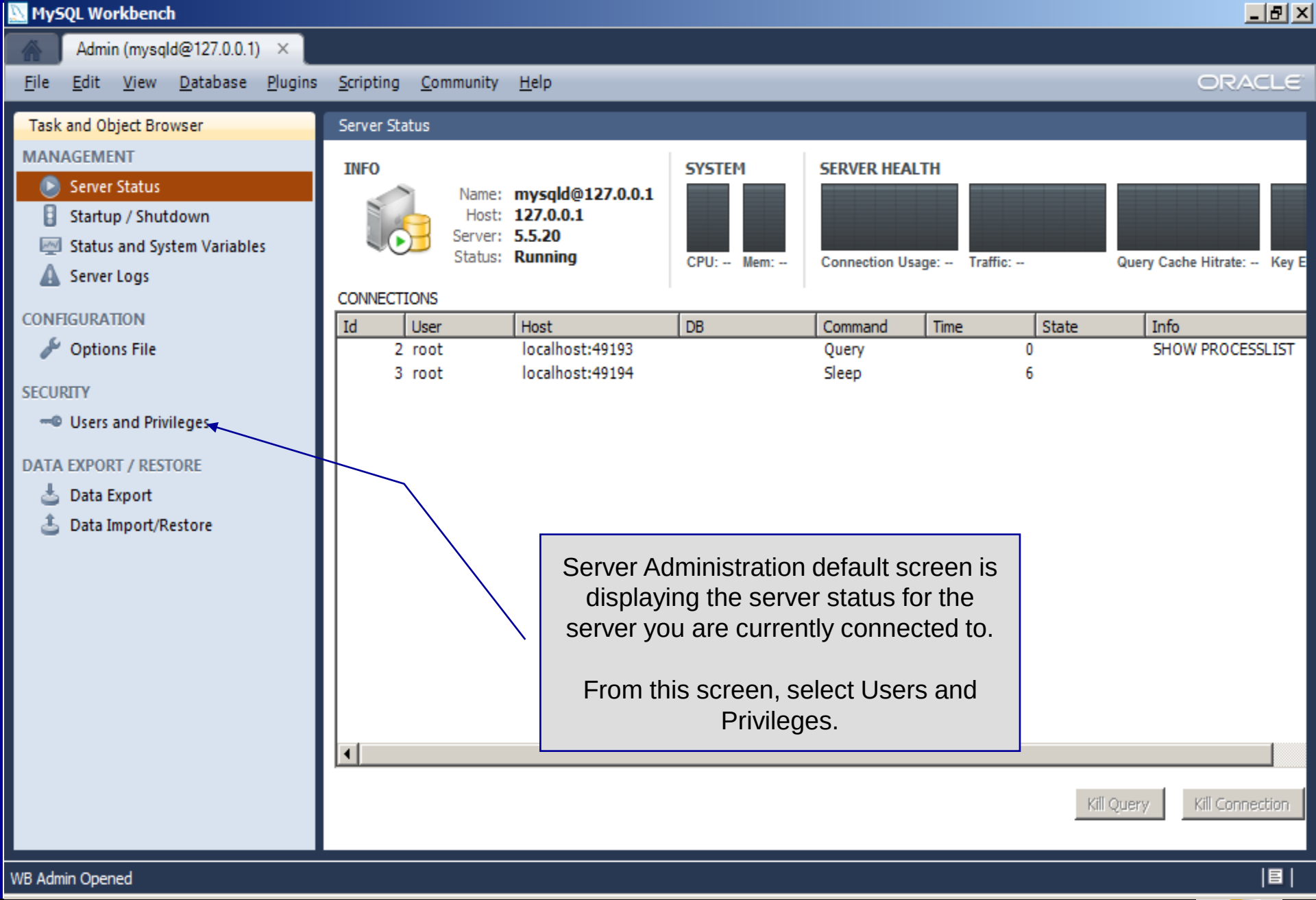
Instructor : Dr. Mark Llewellyn
markl@cs.ucf.edu
HEC 236, 407-823-2790
http://www.cs.ucf.edu/courses/cnt4714/sum2012

Department of Electrical Engineering and Computer Science
Computer Science Division
University of Central Florida

Client User Creation In The MySQL Workbench

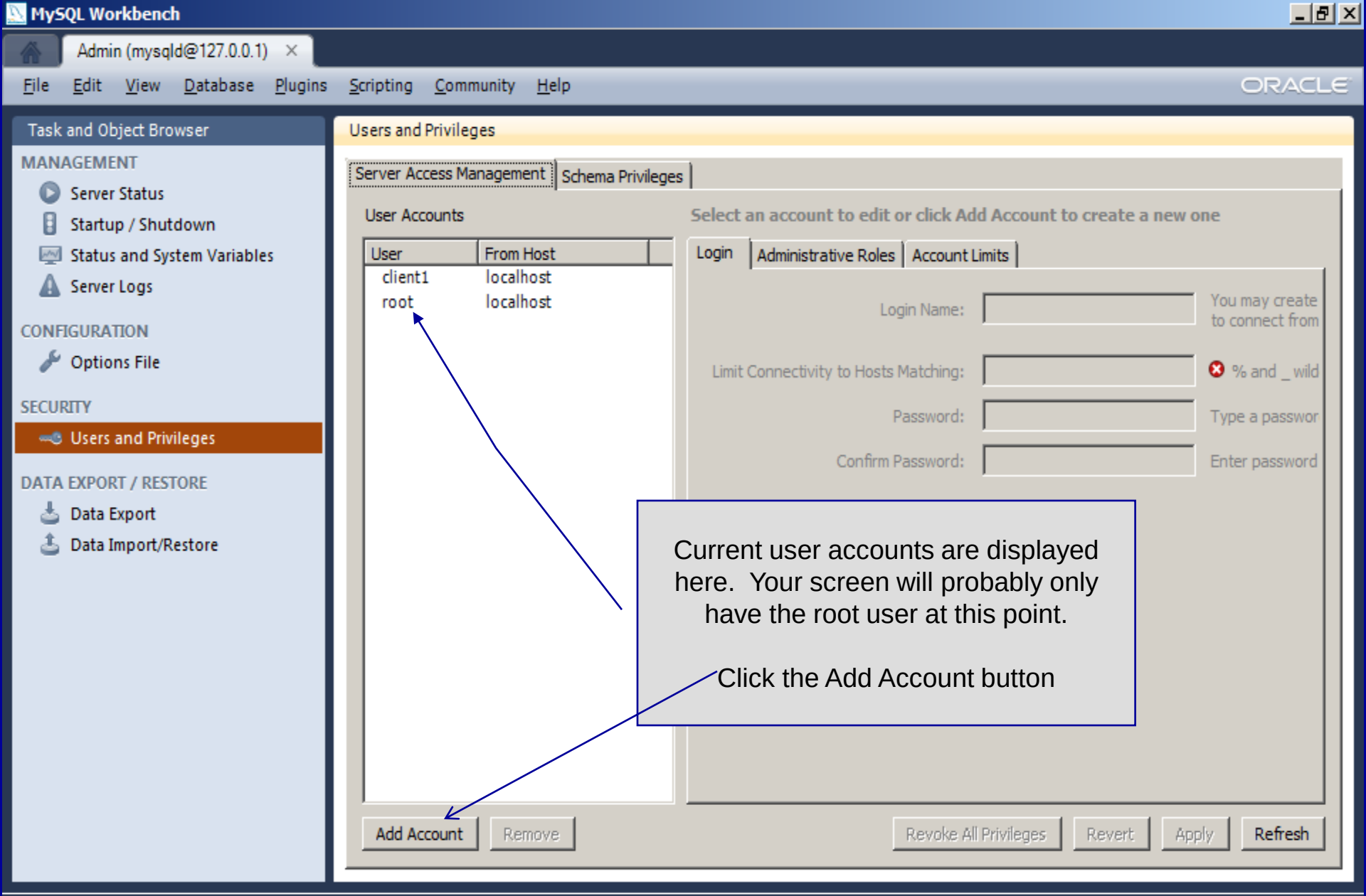
- For Project 5 you need to create two new clients for the project5 database and assign them specific privileges on the database.
- This set of slides steps you through that process using the MySQL Workbench.
- This can also be done via the MySQL command line client, however, it requires issuing specific GRANT commands and while providing finer grained privilege detail, goes a bit beyond what we need for this project.


MySQL Workbench
File Edit View Database Plugins Scripting Community Help
ORACLE
Workbench Central
Welcome to MySQL Workbench
What's New in This Release?
Read about all changes in this MySQL Workbench
MySQL Bug Reporter
Workbench Blogs
Planet MySQL
Start the Workbench and select Server Administration from the right side of the window.
Workspace
SQL Development
Connect to existing databases and run SQL Queries, SQL scripts, edit data and manage database objects.
Data Modeling
Create and manage models, forward & reverse engineer, compare and synchronize schemas, report.
Server Administration
Configure your database server, setup user accounts, browse status variables and server logs.
Open Connection to Start Querying
Or click a DB connection to open the SQL Editor.
Open Existing EER Model
Or select a model to open or click here to browse.
Server Administration
Or click to manage a database server instance.
New Connection
Add a new database connection for querying.
Edit Table Data
Select a connection and schema table to edit.
Edit SQL Script
Open an existing SQL Script file for editing.
Manage Connections
Modify connection settings or add connections.
Create New EER Model
Create a new EER Model from scratch.
Create EER Model From Existing Database
Create by connecting and reverse engineering.
Create EER Model From SQL Script
Import an existing SQL file.
New Server Instance
Register a new server instance to manage.
Manage Import / Export
Create a dump file or restore data from a file.
Manage Security
Manage user accounts and assign privileges.
Manage Server Instances
Add, delete and update server instance settings.
Ready.



Server Administration default screen is displaying the server status for the server you are currently connected to.

From this screen, select Users and Privileges.


MySQL Workbench
Admin (mysqld@127.0.0.1)
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ORACLE
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Startup / Shutdown
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Data Export
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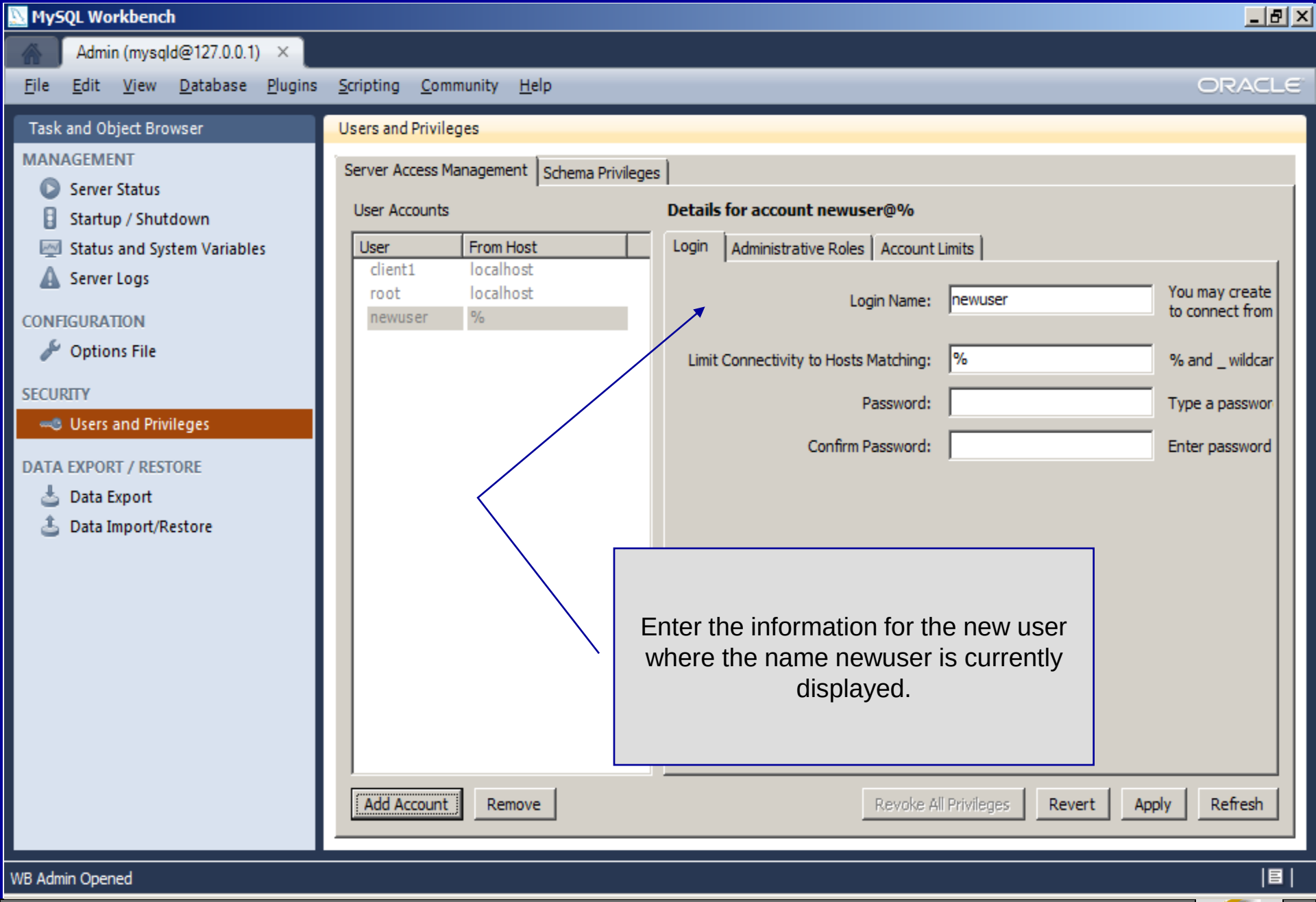
Users and Privileges
Server Access Management
Schema Privileges
User Accounts
Select an account to edit or click Add Account to create a new one
User
From Host
client1
localhost
root
localhost
Login
Administrative Roles
Account Limits
Login Name:
You may create to connect from
Limit Connectivity to Hosts Matching:
% and _ wild
Password:
Type a passwor
Confirm Password:
Enter password
Current user accounts are displayed here. Your screen will probably only have the root user at this point.
Click the Add Account button
Add Account
Remove
Revoke All Privileges
Revert
Apply
Refresh
WB Admin Opened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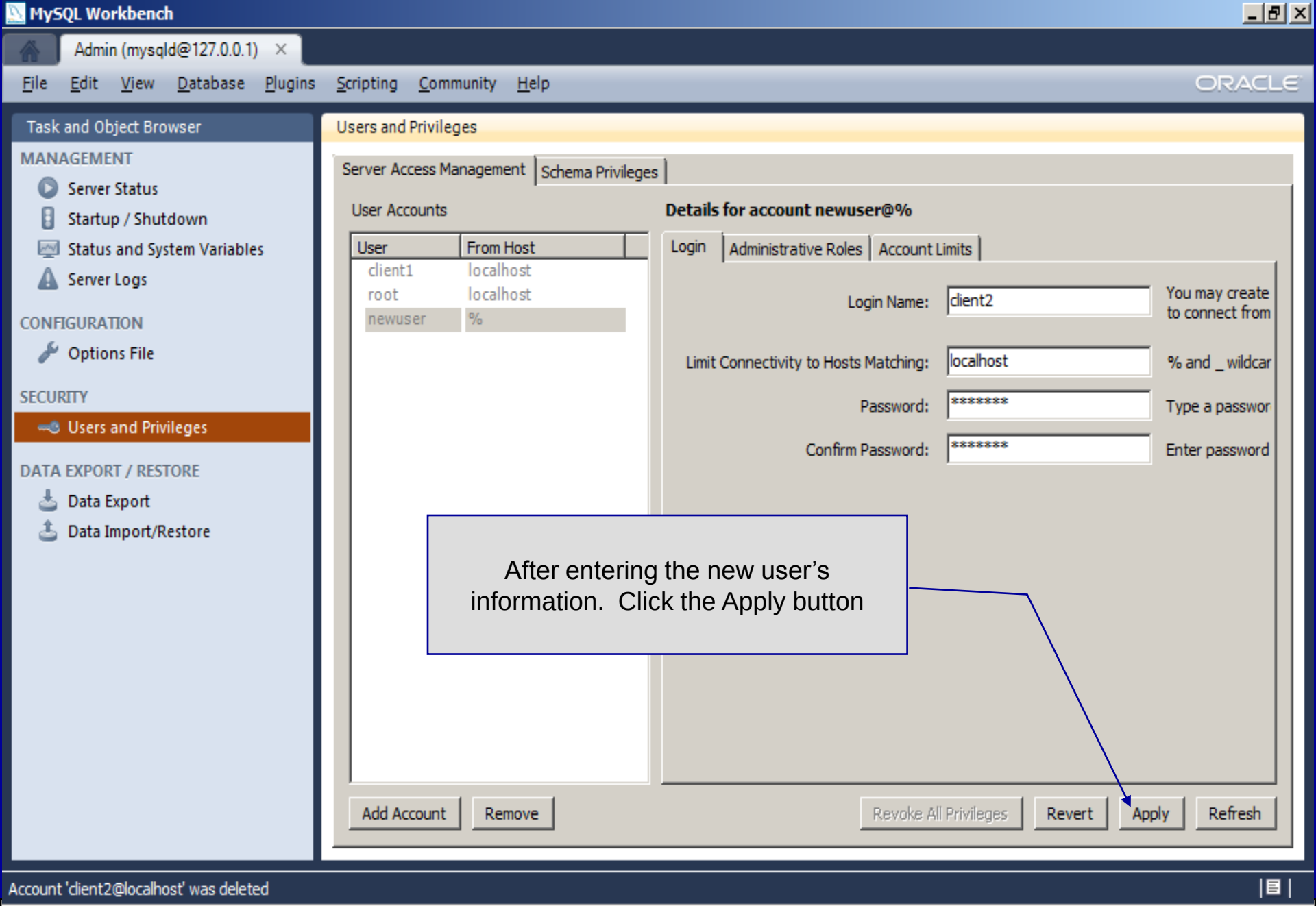
User Accounts
User
From Host
client1
localhost
root
localhost
newuser
%
Details for account newuser@%
Login
Administrative Roles
Account Limits
Login Name:
newuser
You may create to connect from
Limit Connectivity to Hosts Matching:
%
% and _ wildcar
Password:
Type a passwor
Confirm Password:
Enter password
Enter the information for the new user where the name newuser is currently displayed.
Add Account
Remove
Revoke All Privileges
Revert
Apply
Refresh
WB Admin Opened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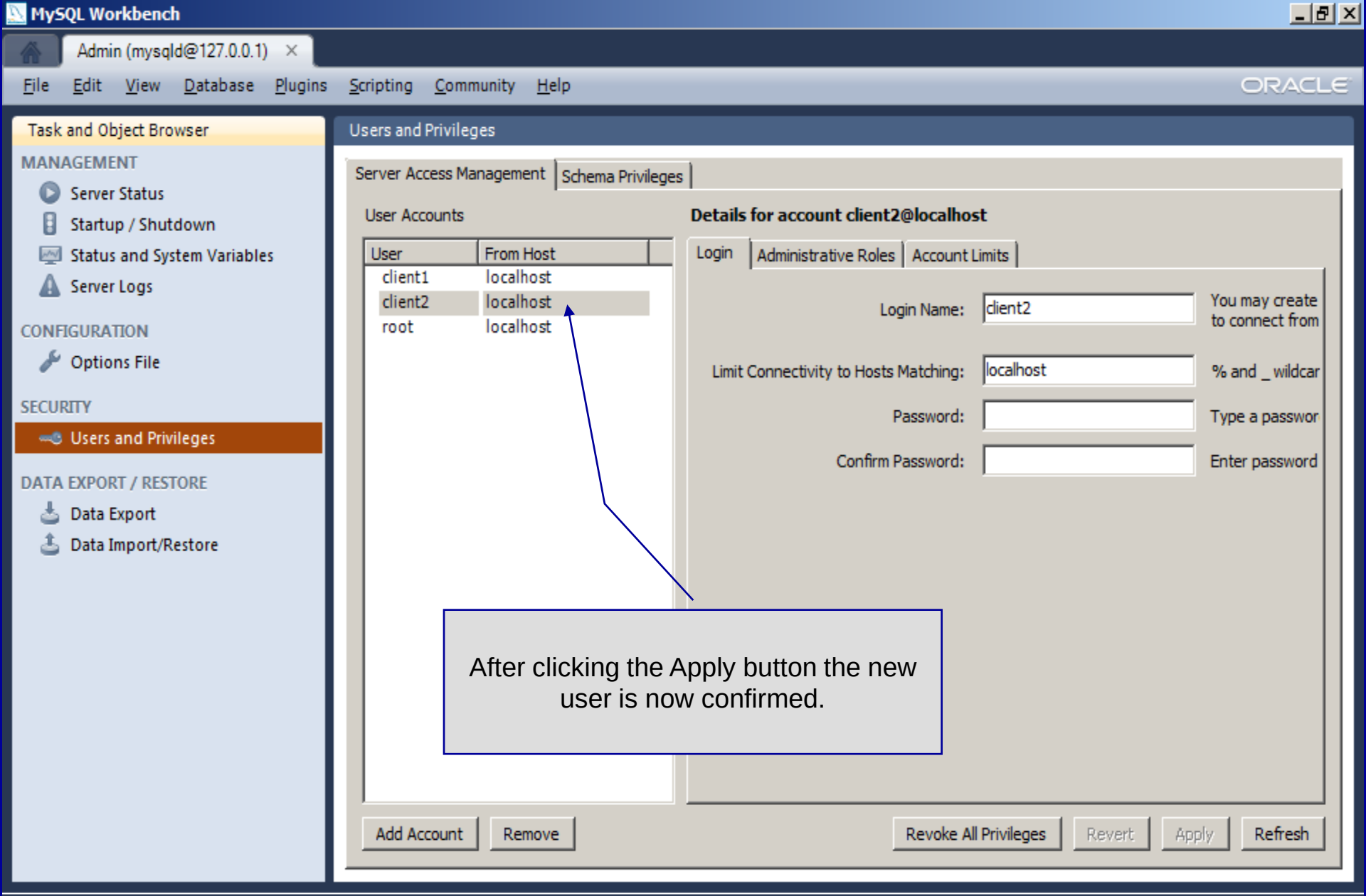
User Accounts
User
From Host
client1
localhost
root
localhost
newuser
%
Details for account newuser@%
Login
Administrative Roles
Account Limits
Login Name:
client2
You may create to connect from
Limit Connectivity to Hosts Matching:
localhost
% and _ wildcar
Password:
****
Type a passwor
Confirm Password:
****
Enter password
After entering the new user's information. Click the Apply button
Add Account
Remove
Revoke All Privileges
Revert
Apply
Refresh
Account 'client2@localhost' was deleted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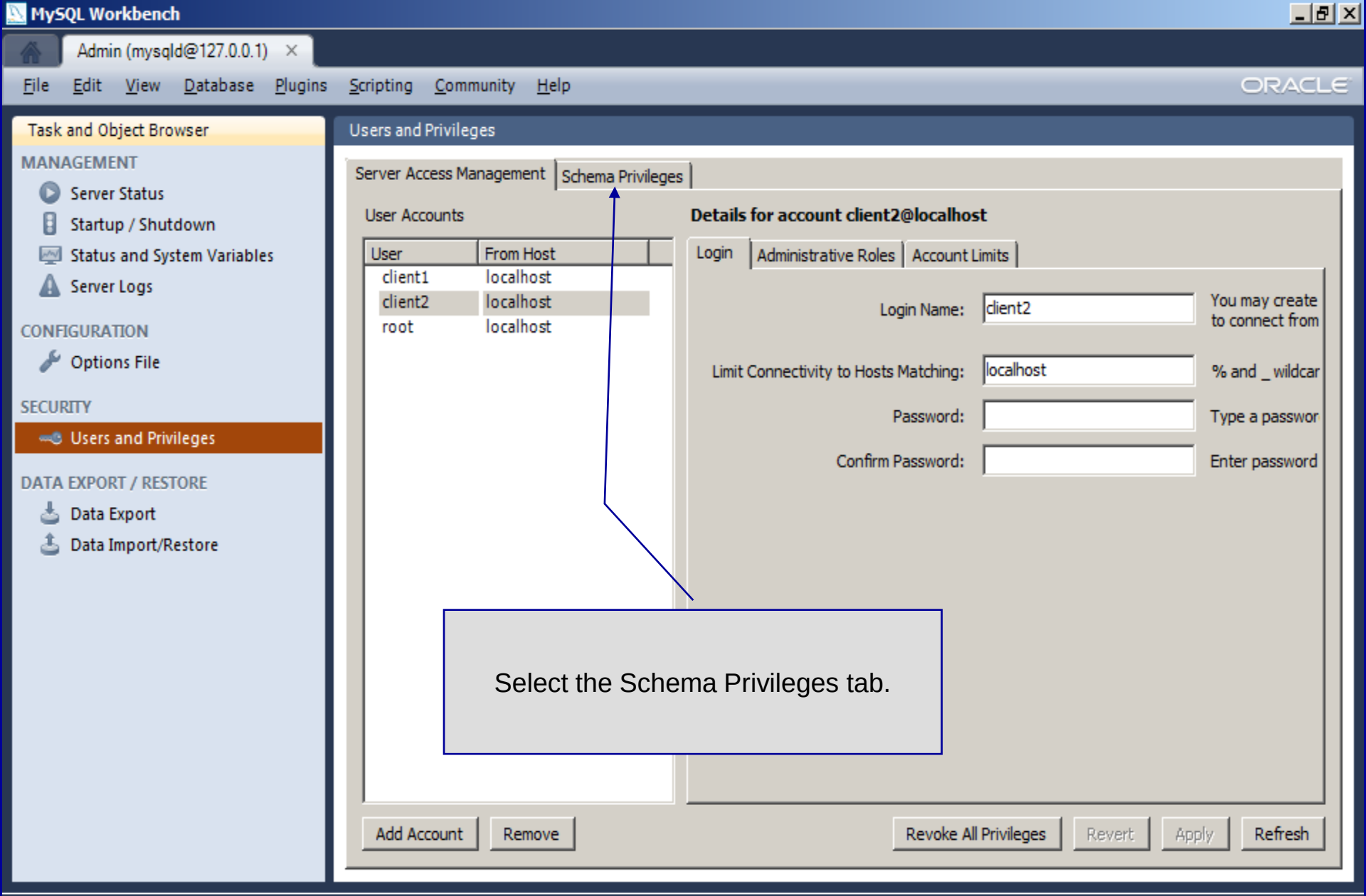
User Accounts
User
From Host
client1 localhost
client2 localhost
root localhost
Details for account client2@localhost
Login
Administrative Roles
Account Limits
Login Name: client2
You may create to connect from
Limit Connectivity to Hosts Matching: localhost
% and _ wildcar
Password:
Type a passwor
Confirm Password:
Enter password
After clicking the Apply button the new user is now confirmed.
Add Account
Remove
Revoke All Privileges
Revert
Apply
Refresh
Created account 'client2@localhost'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Login Name:
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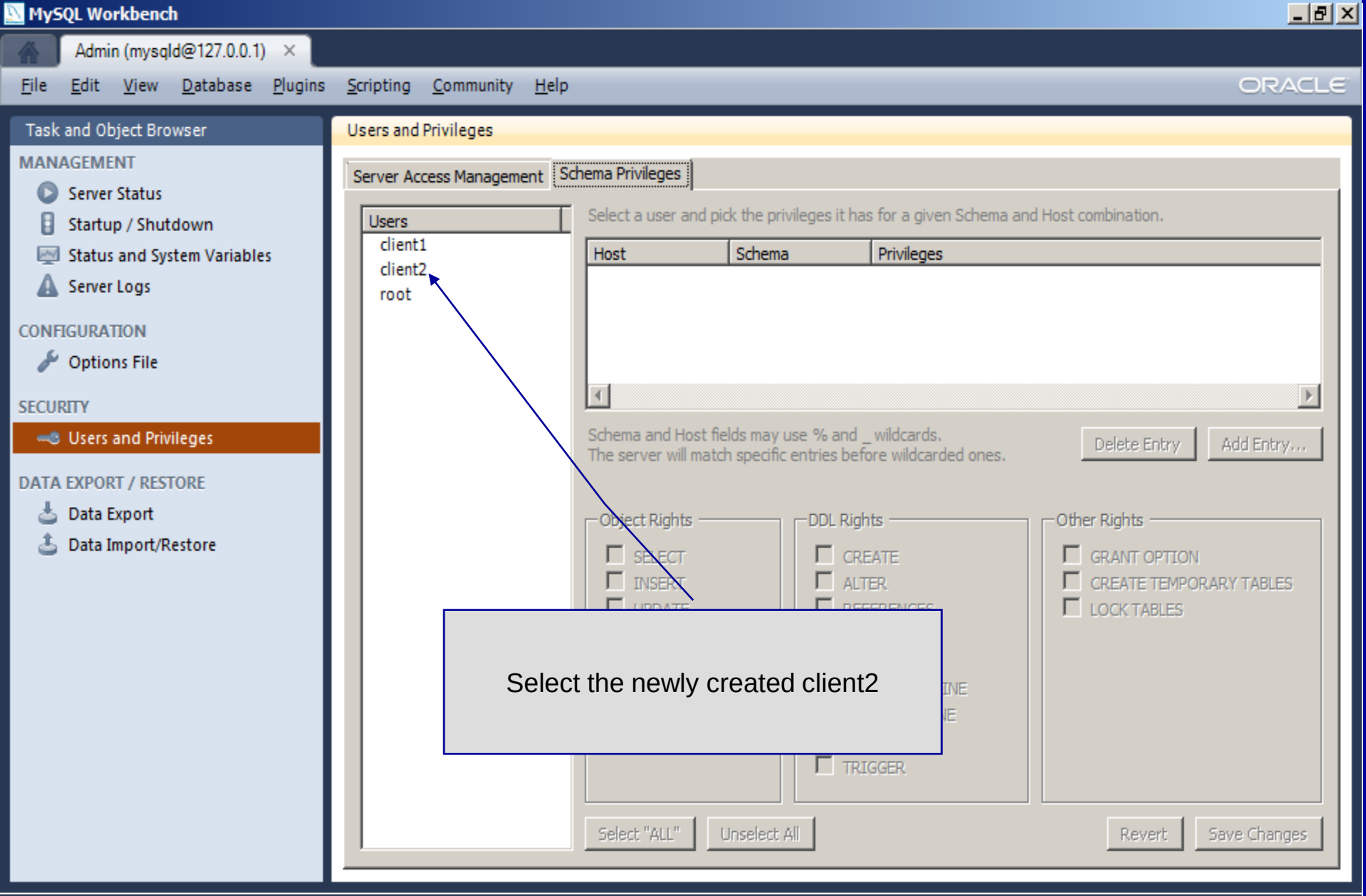
You may create to connect from
Limit Connectivity to Hosts Matching:
localhost
% and _ wildcar
Password:
Type a passwor
Confirm Password:
Enter password
Select the Schema Privileges tab.
Add Account
Remove
Revoke All Privileges
Revert
Apply
Refresh
Created account 'client2@localhost'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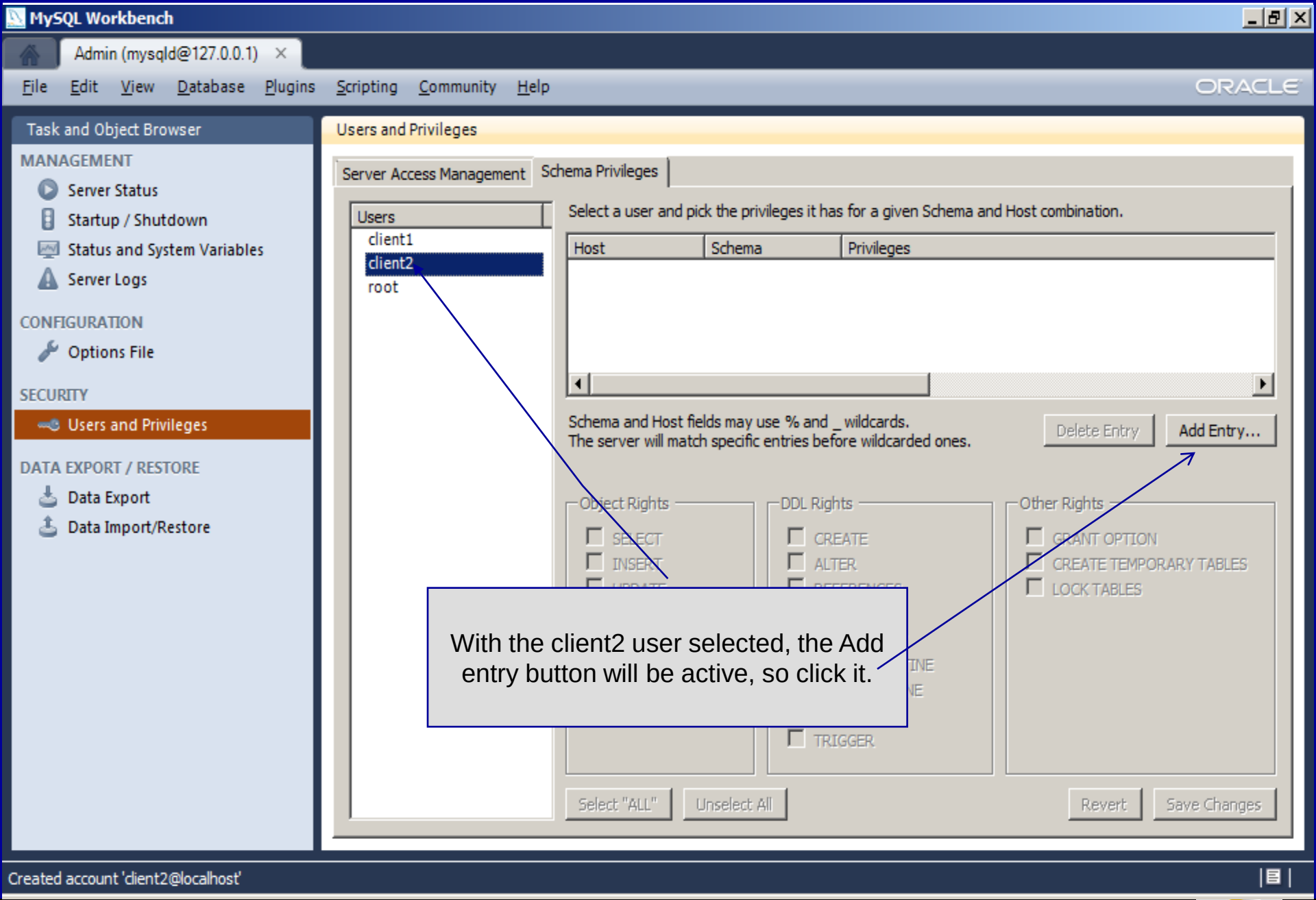
Users and Privileges
Server Access Management
Schema Privileges
Users
client1
client2
root
Select a user and pick the privileges it has for a given Schema and Host combination.
Host
Schema
Privileges
Schema and Host fields may use % and _ wildcards.
The server will match specific entries before wildcarded ones.
Delete Entry
Add Entry...
Object Rights
SELECT
INSERT
DDL Rights
CREATE
ALTER
TRIGGER
Other Rights
GRANT OPTION
CREATE TEMPORARY TABLES
LOCK TABLES
Select "ALL"
Unselect All
Revert
Save Changes
Select the newly created client2
Created account 'client2@localhost'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Select a user and pick the privileges it has for a given Schema and Host combination.
Host
Schema
Privileges
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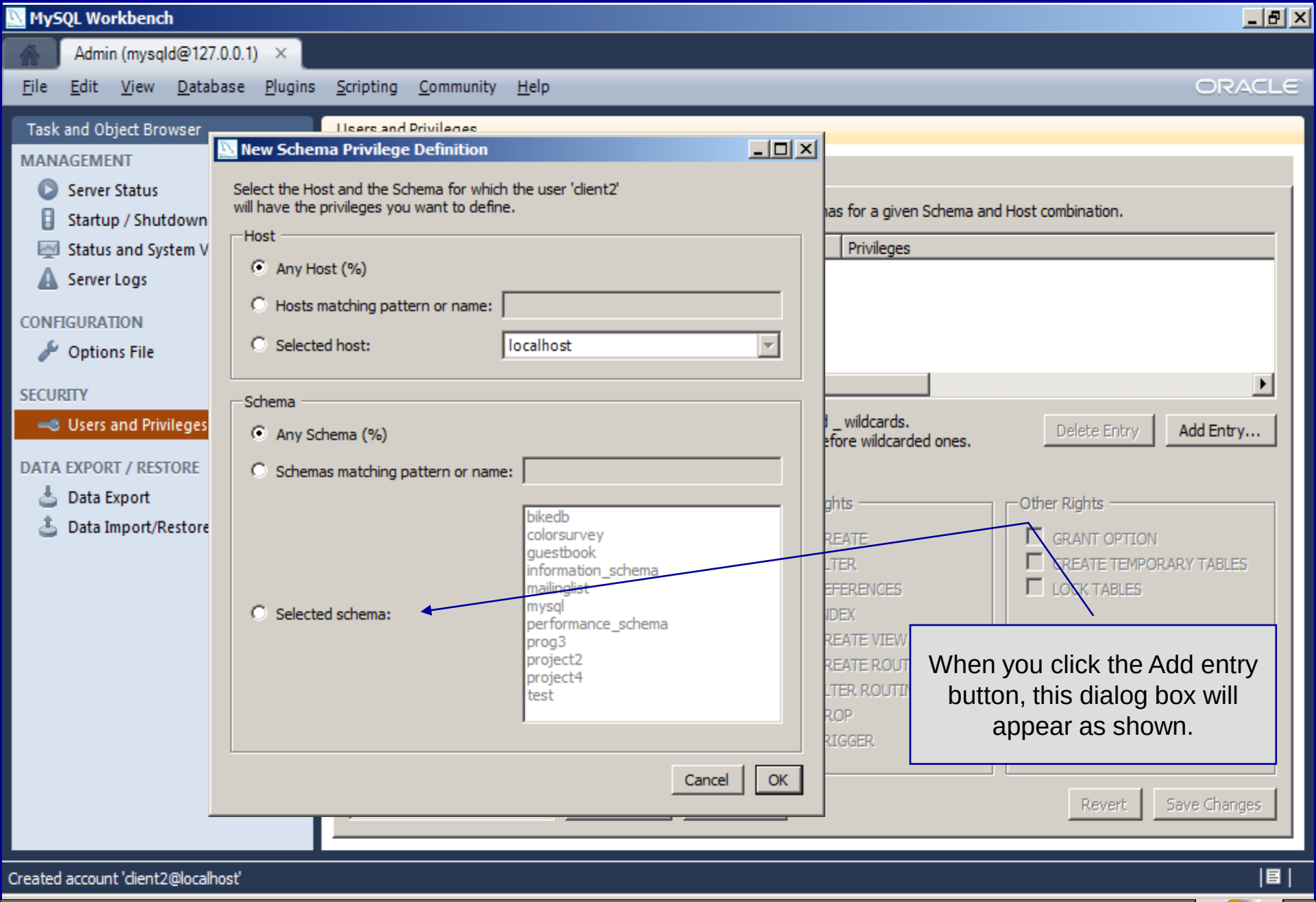
The server will match specific entries before wildcarded ones.
Delete Entry
Add Entry...
Object Rights
SELECT
INSERT
DDL Rights
CREATE
ALTER
TRIGGER
Other Rights
GRANT OPTION
CREATE TEMPORARY TABLES
LOCK TABLES
Select "ALL"
Unselect All
Revert
Save Changes
With the client2 user selected, the Add entry button will be active, so click it.
Created account 'client2@localhost'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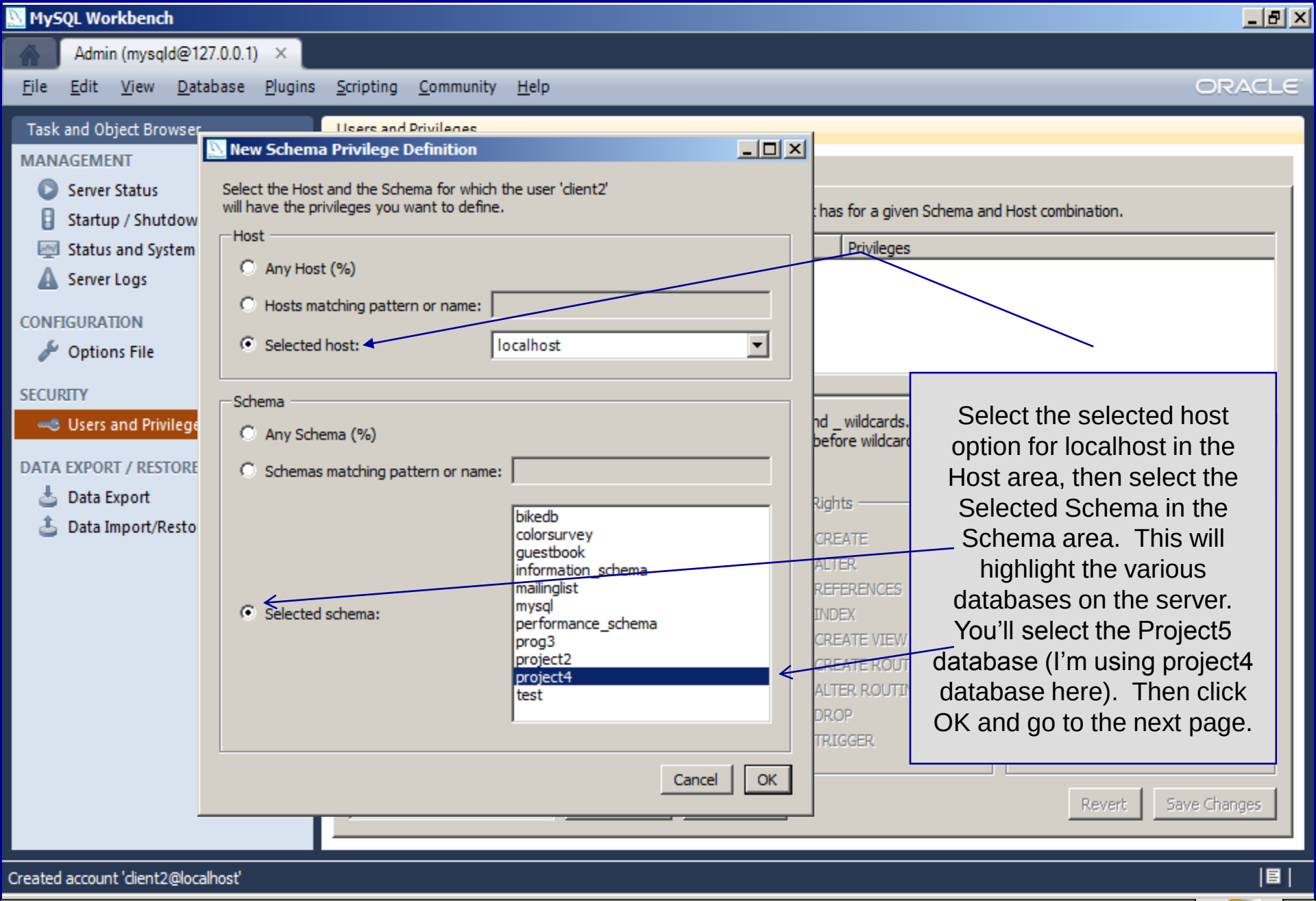
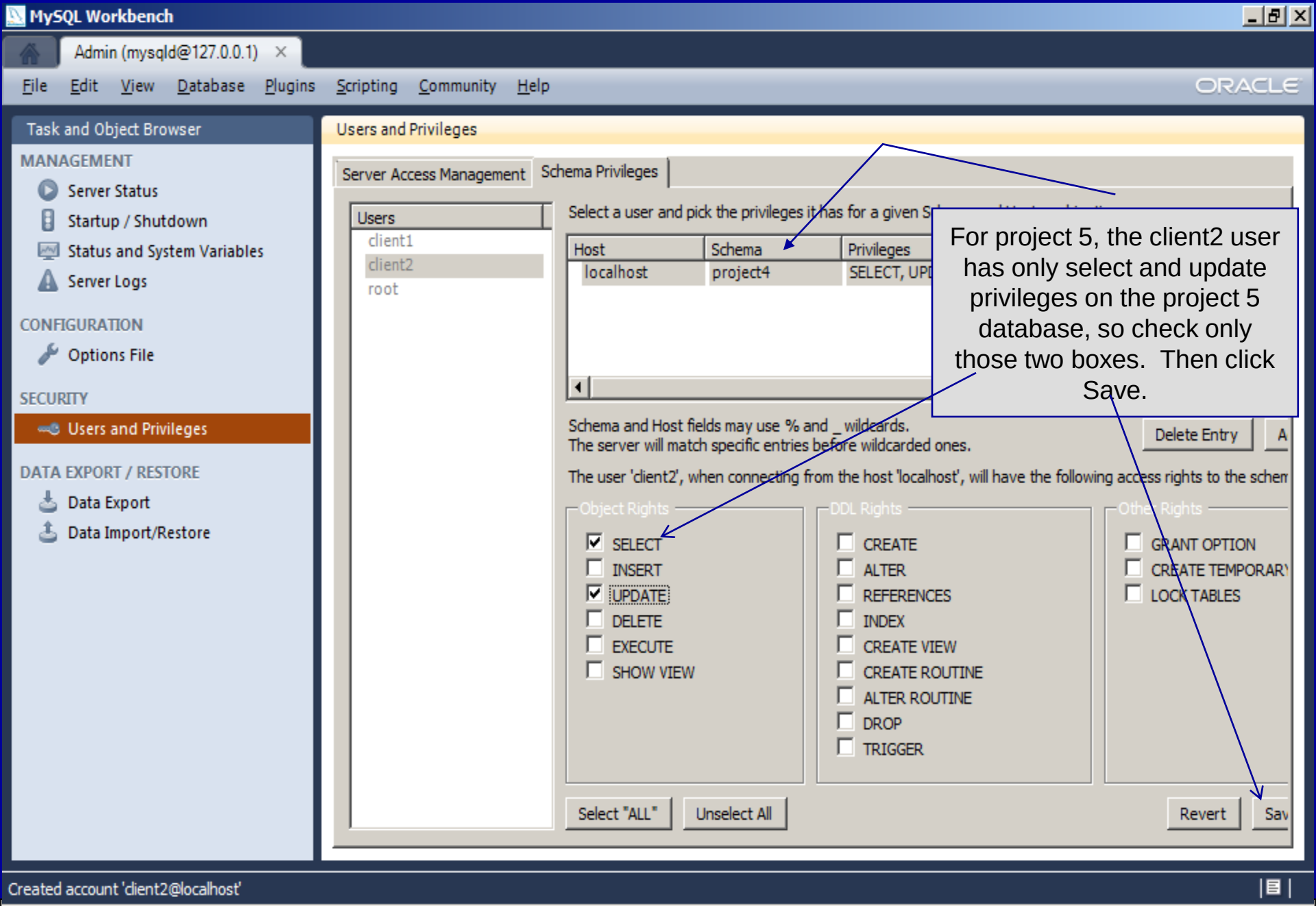
Users and Privileges
New Schema Privilege Definition
Select the Host and the Schema for which the user 'client2' will have the privileges you want to define.
Host
Any Host (%)
Hosts matching pattern or name:
Selected host:
localhost
Schema
Any Schema (%)
Schemas matching pattern or name:
Selected schema:
bikedb
colorsurvey
guestbook
information_schema
mailinglist
mysql
performance_schema
prog3
project2
project4
test
Cancel
OK
as for a given Schema and Host combination.
Privileges
_ wildcards.
efore wildcarded ones.
Delete Entry
Add Entry...
ghts
Other Rights
GRANT OPTION
CREATE TEMPORARY TABLES
LOCK TABLES
Revert
Save Changes
When you click the Add entry button, this dialog box will appear as shown.
Created account 'client2@localhost'



Select the selected host option for localhost in the Host area, then select the Selected Schema in the Schema area. This will highlight the various databases on the server. You'll select the Project5 database (I'm using project4 database here). Then click OK and go to the next page.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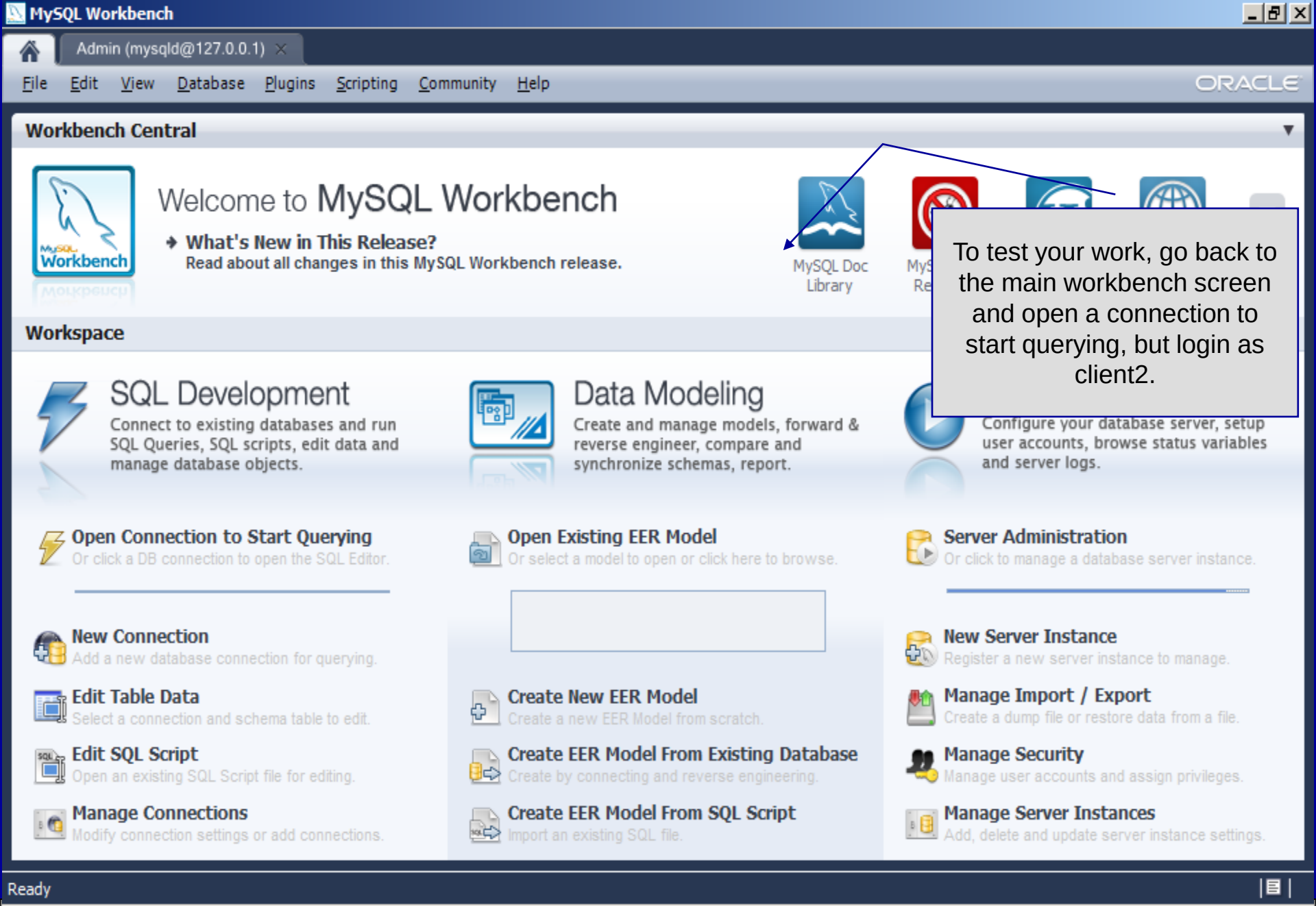
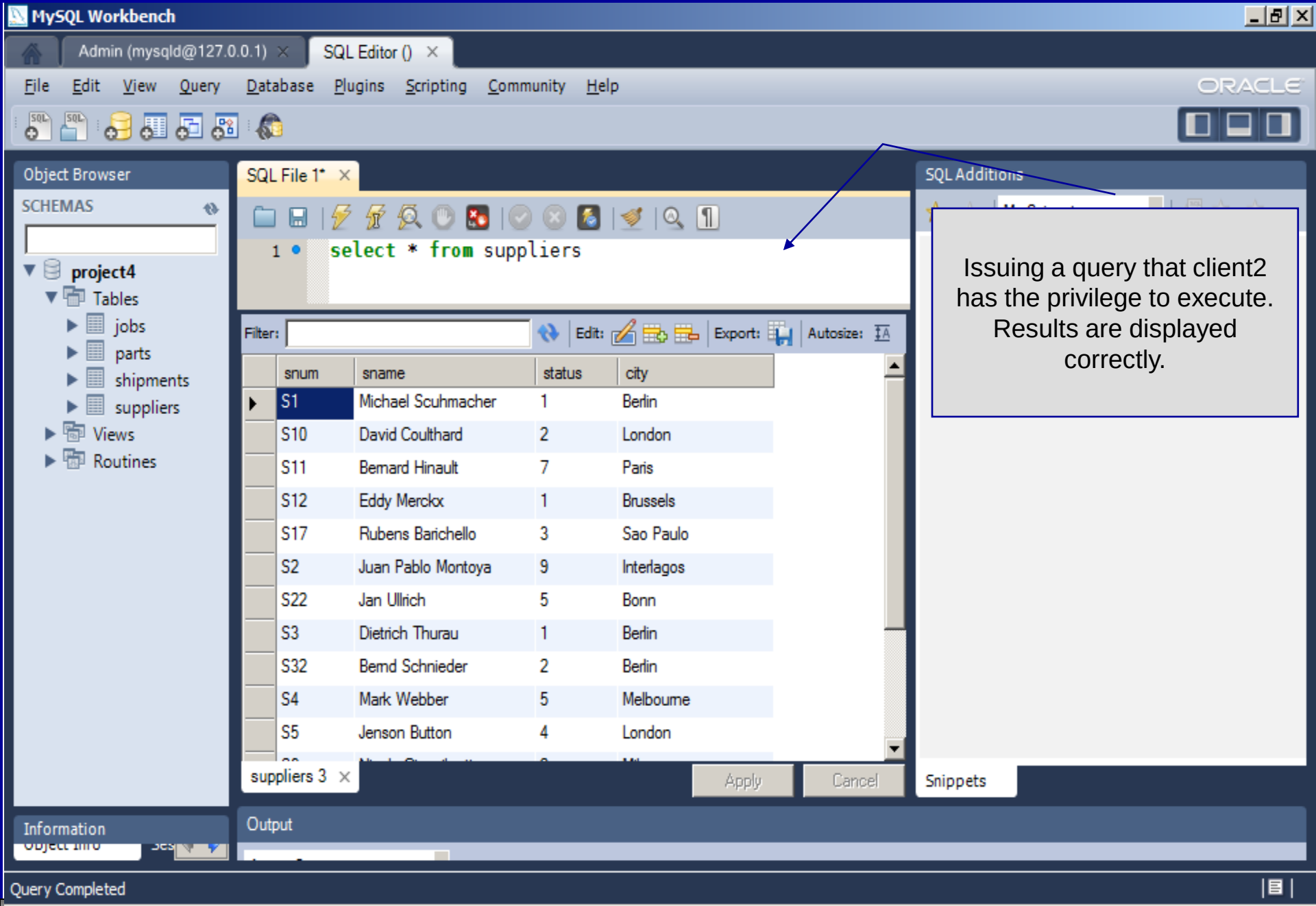
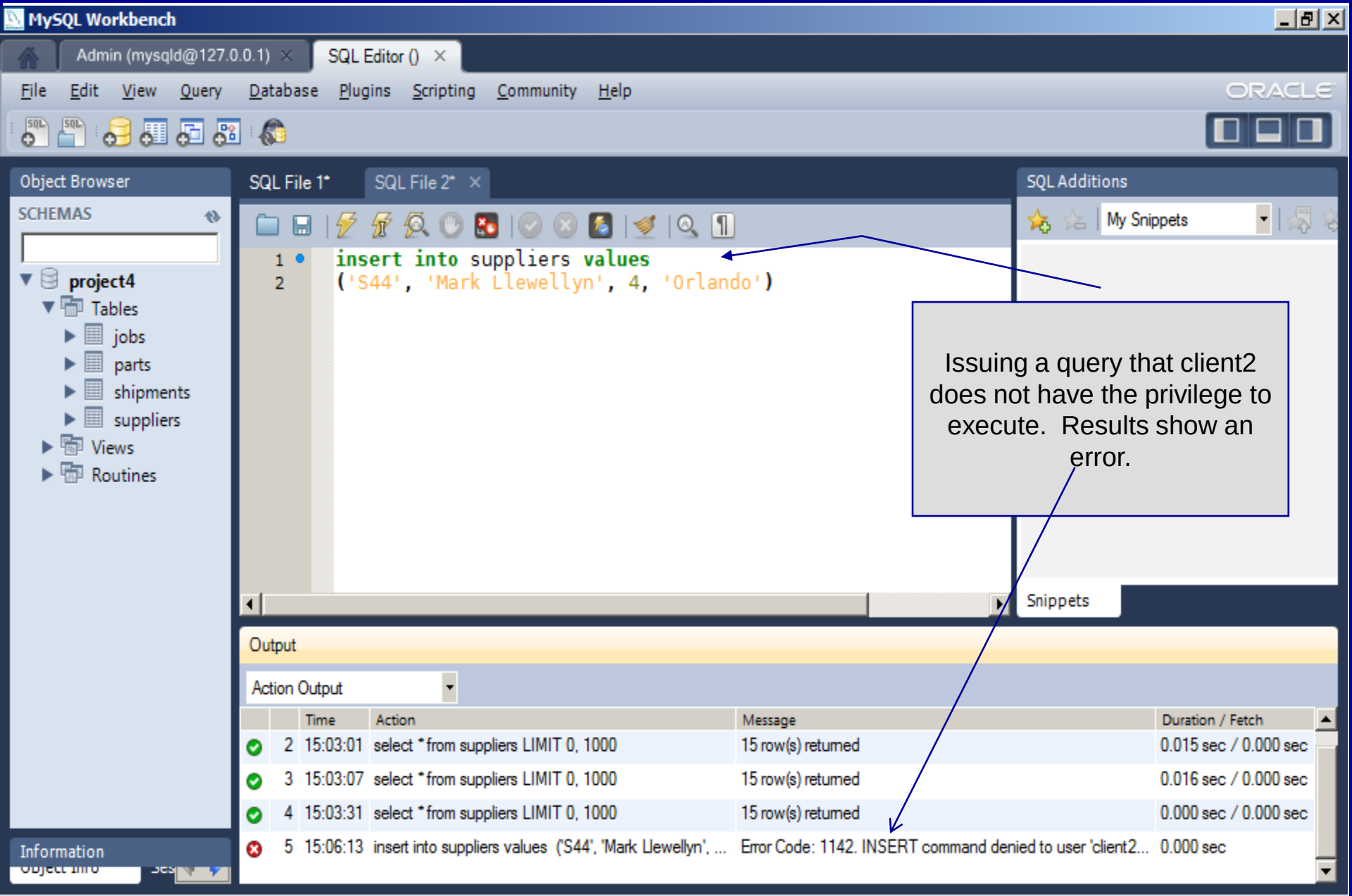
Server Access Management
Schema Privileges
Users
client1
client2
root
Select a user and pick the privileges it has for a given S
Host
Schema
Privileges
localhost
project4
SELECT, UPI
Schema and Host fields may use % and _ wildcards.
The server will match specific entries before wildcarded ones.
Delete Entry
The user 'client2', when connecting from the host 'localhost', will have the following access rights to the schem
Object Rights
SELECT
INSERT
UPDATE
DELETE
EXECUTE
SHOW VIEW
DDL Rights
CREATE
ALTER
REFERENCES
INDEX
CREATE VIEW
CREATE ROUTINE
ALTER ROUTINE
DROP
TRIGGER
Other Rights
GRANT OPTION
CREATE TEMPORAR
LOCK TABLES
Select "ALL"
Unselect All
Revert
Sav
For project 5, the client2 user has only select and update privileges on the project 5 database, so check only those two boxes. Then click Save.
Created account 'client2@localhost'



To test your work, go back to the main workbench screen and open a connection to start querying, but login as client2.


MySQL Workbench
Admin (mysqld@127.0.0.1)
SQL Editor ()
File Edit View Query Database Plugins Scripting Community Help
ORACLE
Object Browser
SCHEMAS
project4
Tables
jobs
parts
shipments
suppliers
Views
Routines
SQL File 1*
1 select * from suppliers
Filter:
Edit:
Export:
Autosize:
snum sname status city
S1 Michael Scuhmacher 1 Berlin
S10 David Coulthard 2 London
S11 Bernard Hinault 7 Paris
S12 Eddy Merckx 1 Brussels
S17 Rubens Barichello 3 Sao Paulo
S2 Juan Pablo Montoya 9 Interlagos
S22 Jan Ullrich 5 Bonn
S3 Dietrich Thurau 1 Berlin
S32 Bernd Schnieder 2 Berlin
S4 Mark Webber 5 Melbourne
S5 Jenson Button 4 London
suppliers 3
Apply
Cancel
SQL Additions
Snippets
Issuing a query that client2 has the privilege to execute. Results are displayed correctly.
Information
Output
Query Completed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SCHEMAS
project4
Tables
jobs
parts
shipments
suppliers
Views
Routines
SQL File 1*
SQL File 2*
1 insert into suppliers values
2 ('S44', 'Mark Llewellyn', 4, 'Orlando')
SQL Additions
My Snippets
Snippets
Issuing a query that client2 does not have the privilege to execute. Results show an error.
Output
Action Output
Time Action Message Duration / Fetch
2 15:03:01 select * from suppliers LIMIT 0, 1000 15 row(s) returned 0.015 sec / 0.000 sec
3 15:03:07 select * from suppliers LIMIT 0, 1000 15 row(s) returned 0.016 sec / 0.000 sec
4 15:03:31 select * from suppliers LIMIT 0, 1000 15 row(s) returned 0.000 sec / 0.000 sec
5 15:06:13 insert into suppliers values ('S44', 'Mark Llewellyn', ... Error Code: 1142. INSERT command denied to user 'client2... 0.000 sec
Information
Executing Query...