MySQL

Część II - Workbench

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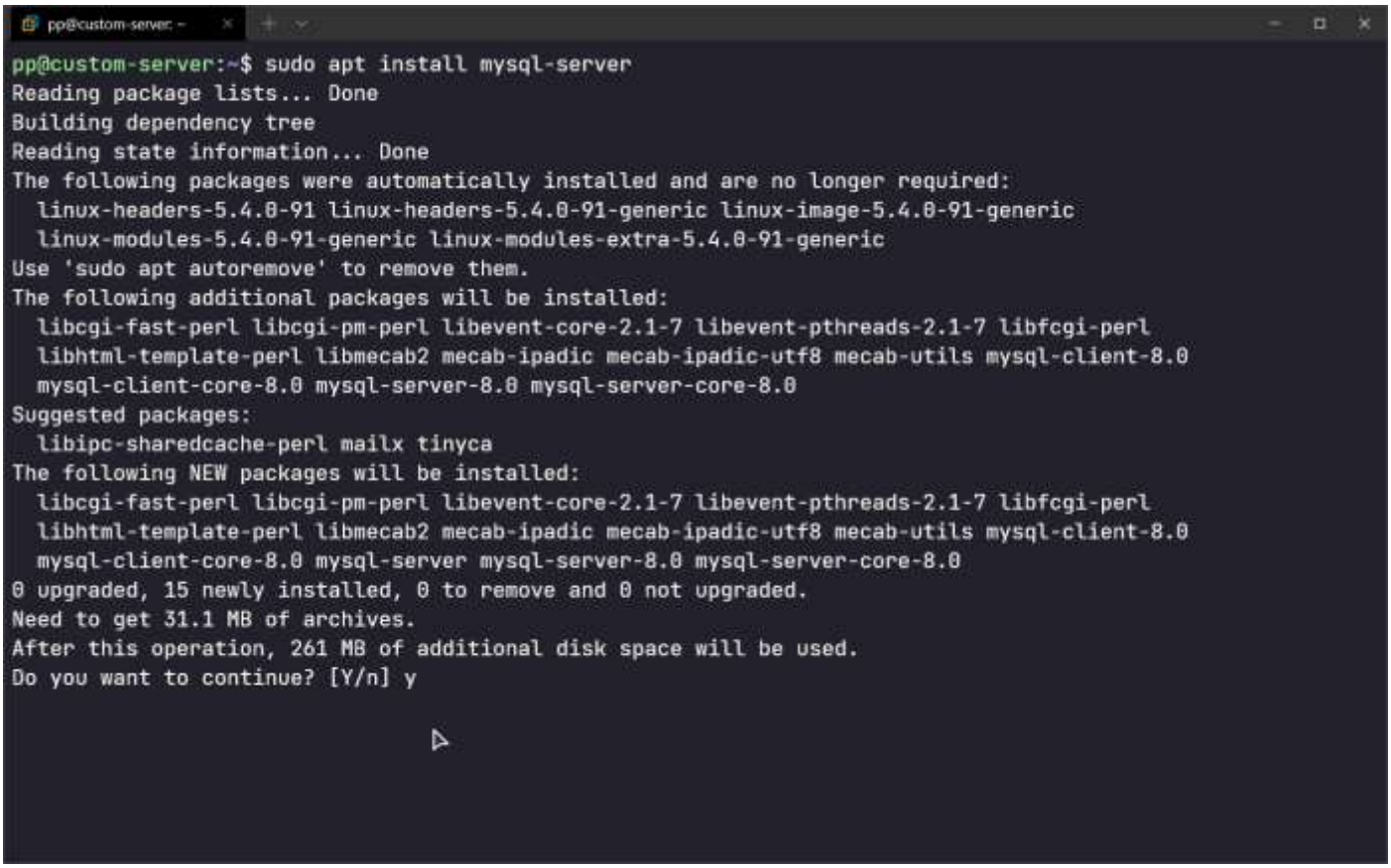
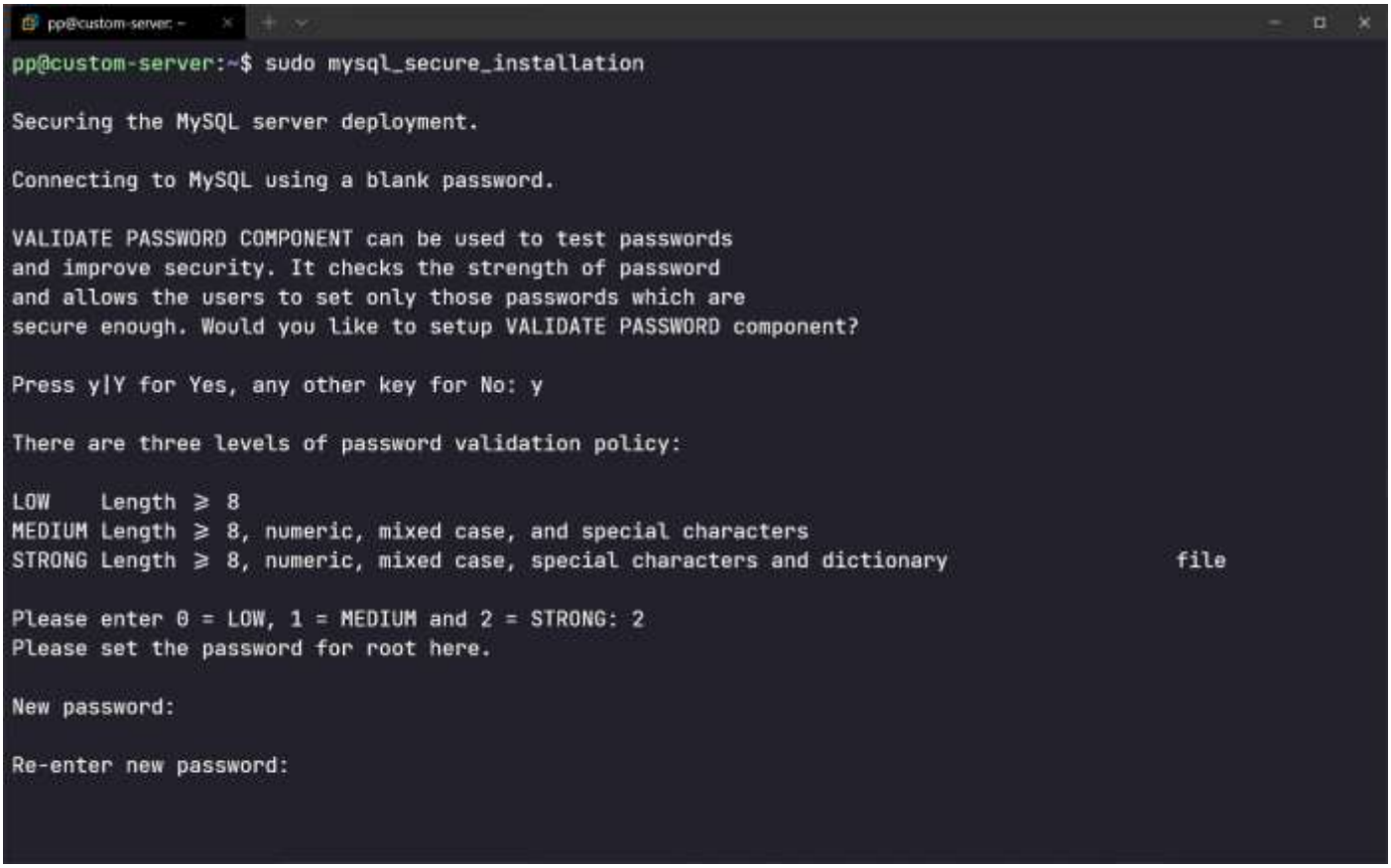
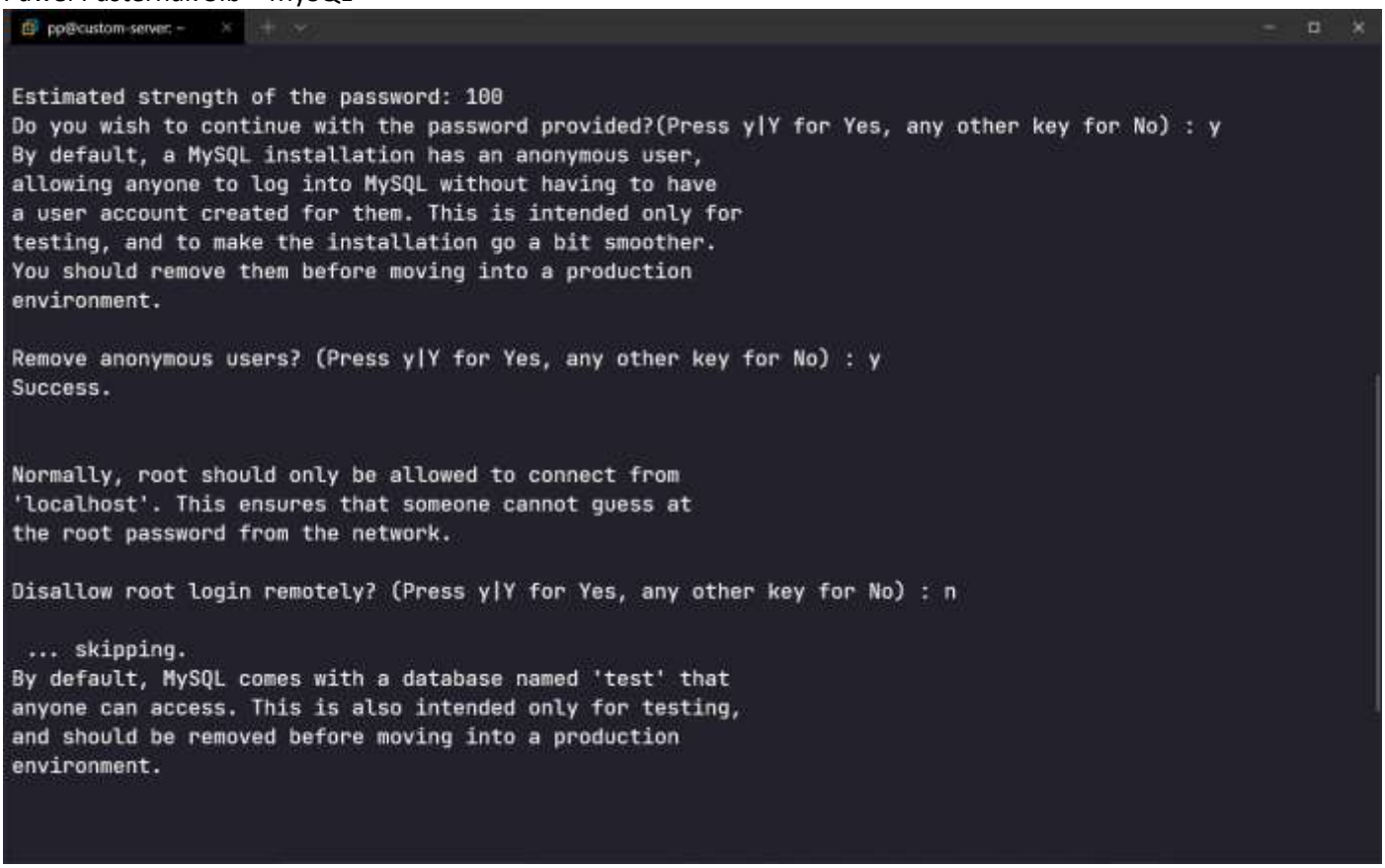
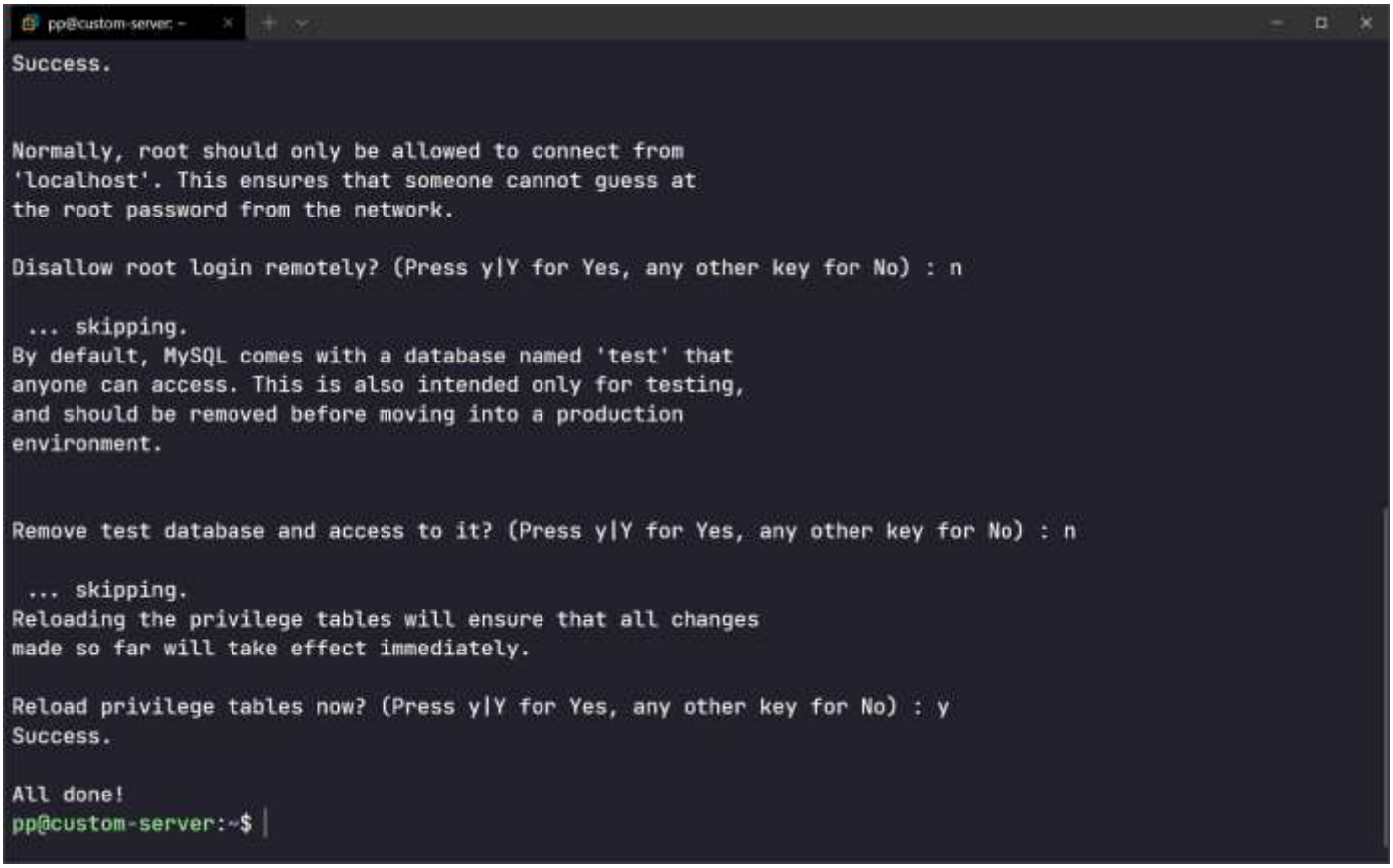
1. Instalacja serwera MySQL

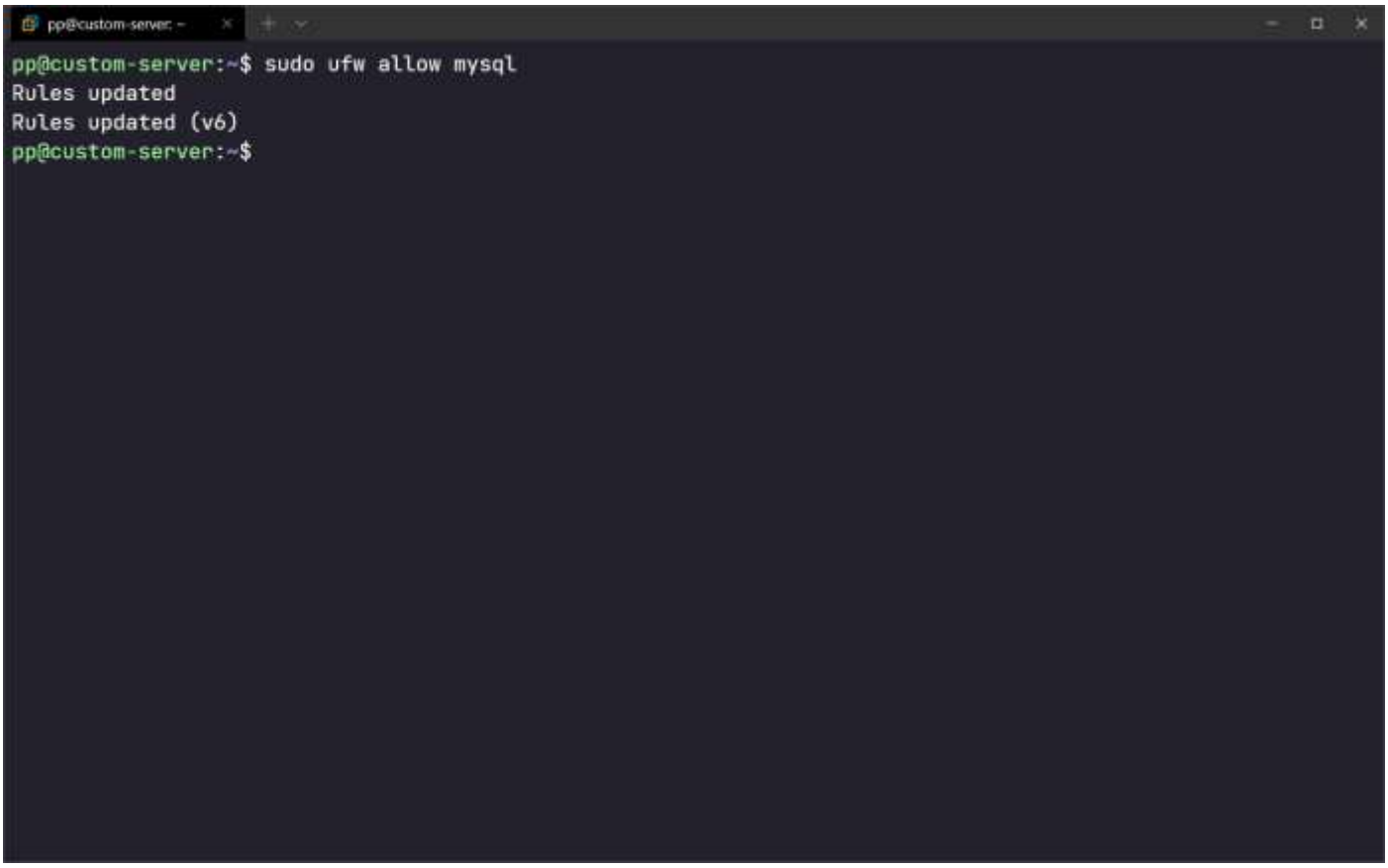




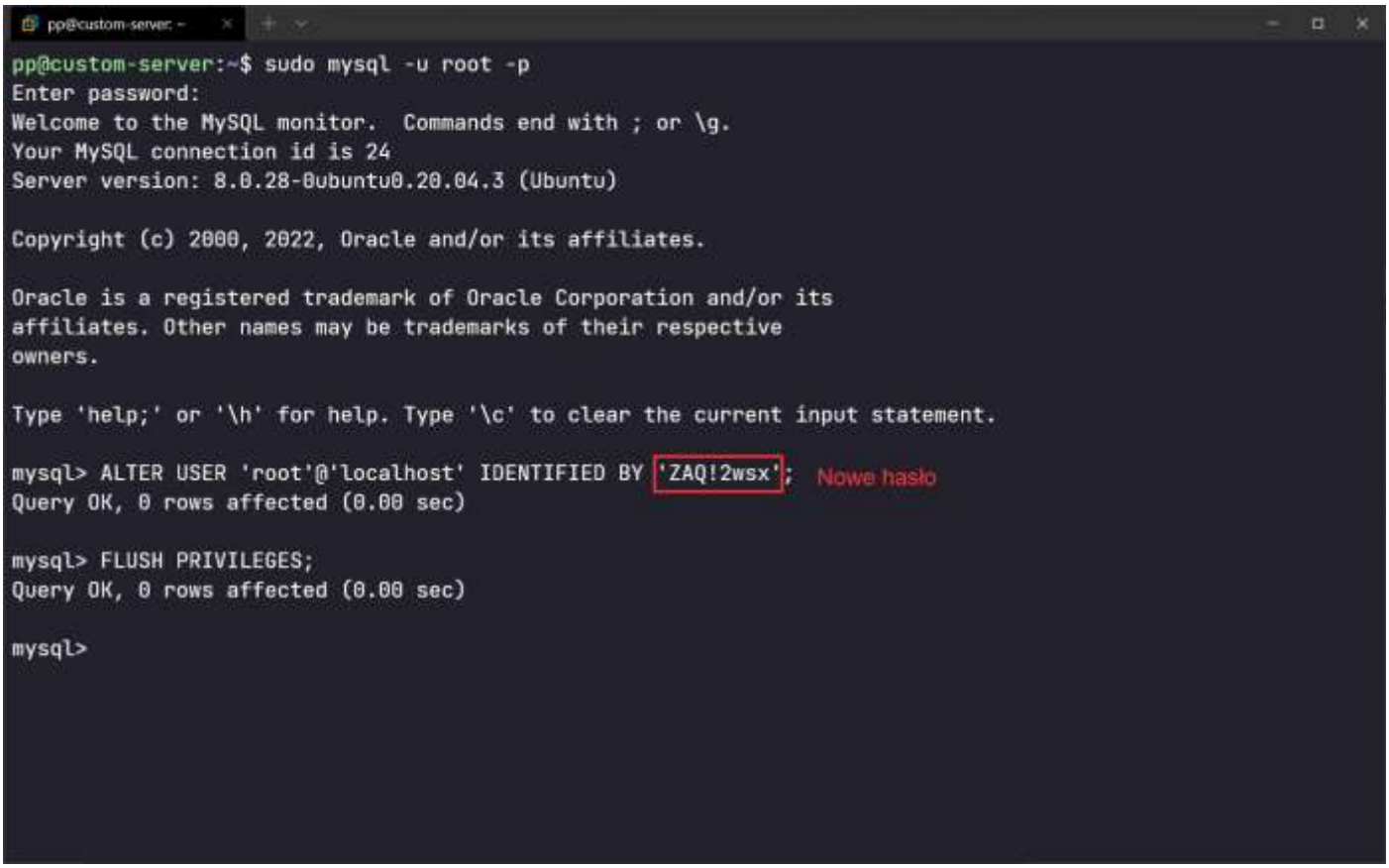

pp@custom-server: ~
Estimated strength of the password: 100
Do you wish to continue with the password provided?(Press y|Y for Yes, any other key for No) : y
By default, a MySQL installation has an anonymous user,
allowing anyone to log into MySQL without having to have
a user account created for them. This is intended only for
testing, and to make the installation go a bit smoother.
You should remove them before moving into a production
environment.
Remove anonymous users? (Press y|Y for Yes, any other key for No) : y
Success.
Normally, root should only be allowed to connect from
'localhost'. This ensures that someone cannot guess at
the root password from the network.
Disallow root login remotely? (Press y|Y for Yes, any other key for No) : n
... skipping.
By default, MySQL comes with a database named 'test' that
anyone can access. This is also intended only for testing,
and should be removed before moving into a production
environment.


pp@custom-server: ~
Success.
Normally, root should only be allowed to connect from
'localhost'. This ensures that someone cannot guess at
the root password from the network.
Disallow root login remotely? (Press y|Y for Yes, any other key for No) : n
... skipping.
By default, MySQL comes with a database named 'test' that
anyone can access. This is also intended only for testing,
and should be removed before moving into a production
environment.
Remove test database and access to it? (Press y|Y for Yes, any other key for No) : n
... skipping.
Reloading the privilege tables will ensure that all changes
made so far will take effect immediately.
Reload privilege tables now? (Press y|Y for Yes, any other key for No) : y
Success.
All done!
pp@custom-server:~$

- Zmiana ustawień zapory

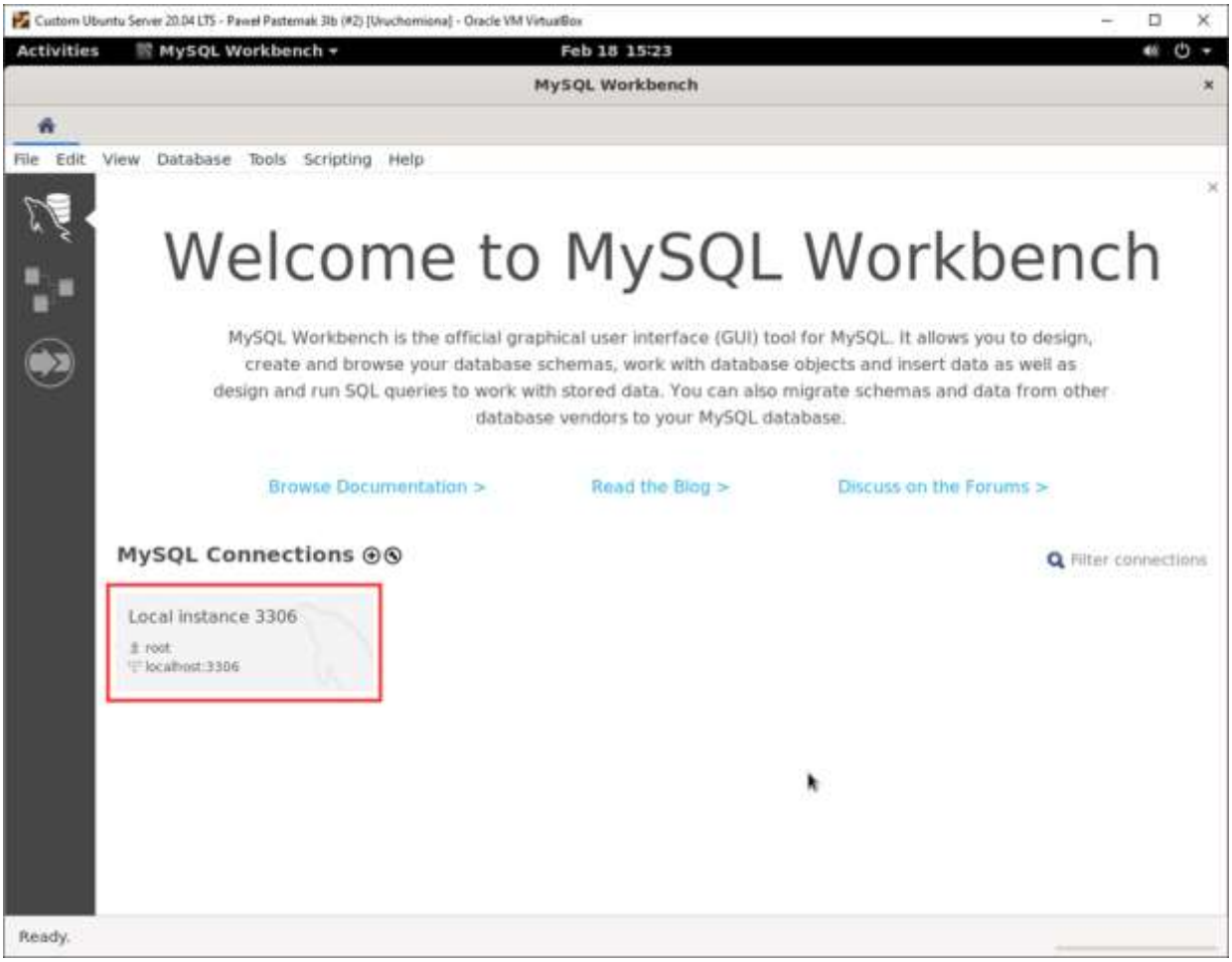


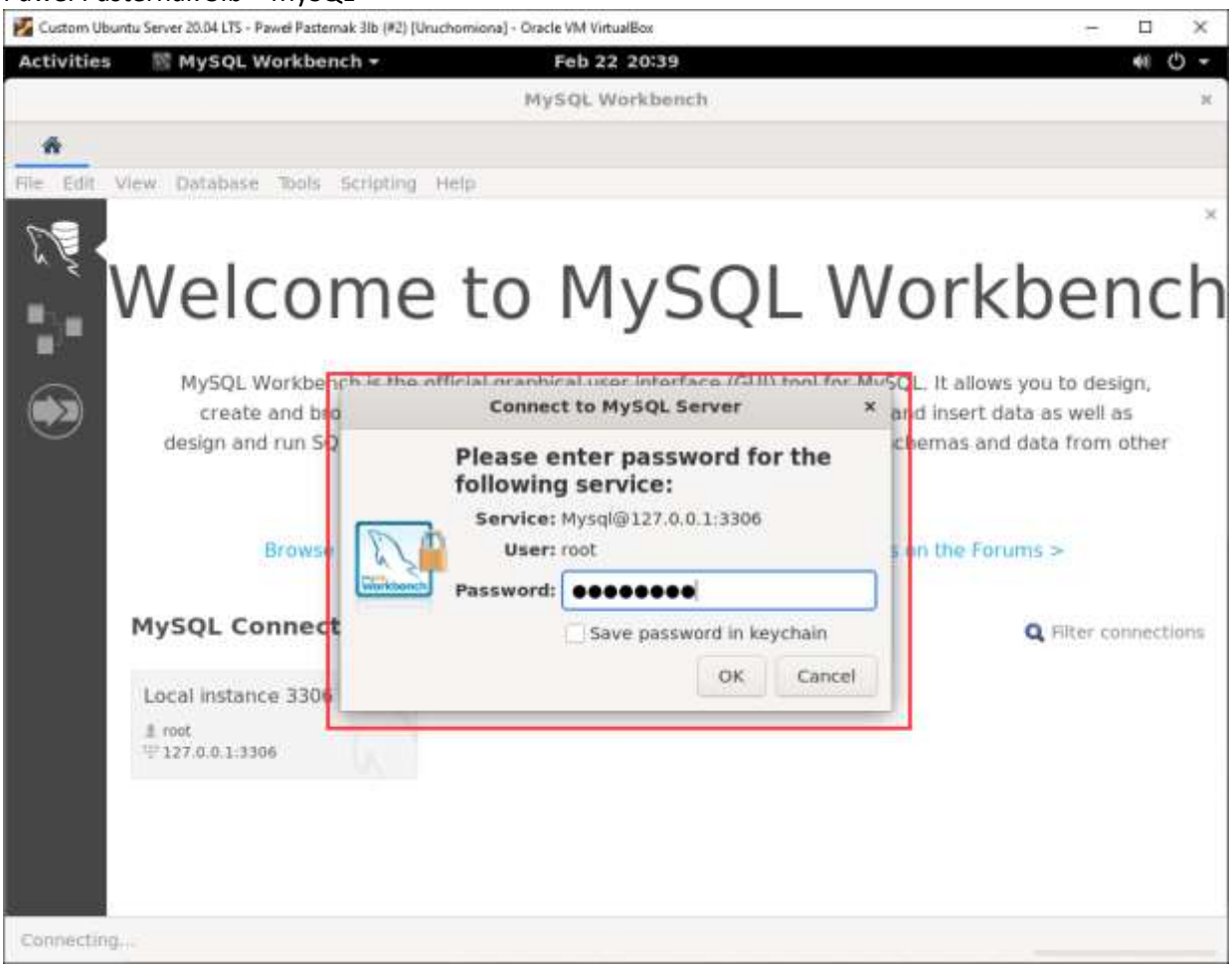
- Zmiana hasła dla danego użytkownika



2. Instalacja MySQL Workbench i pierwsze logowanie

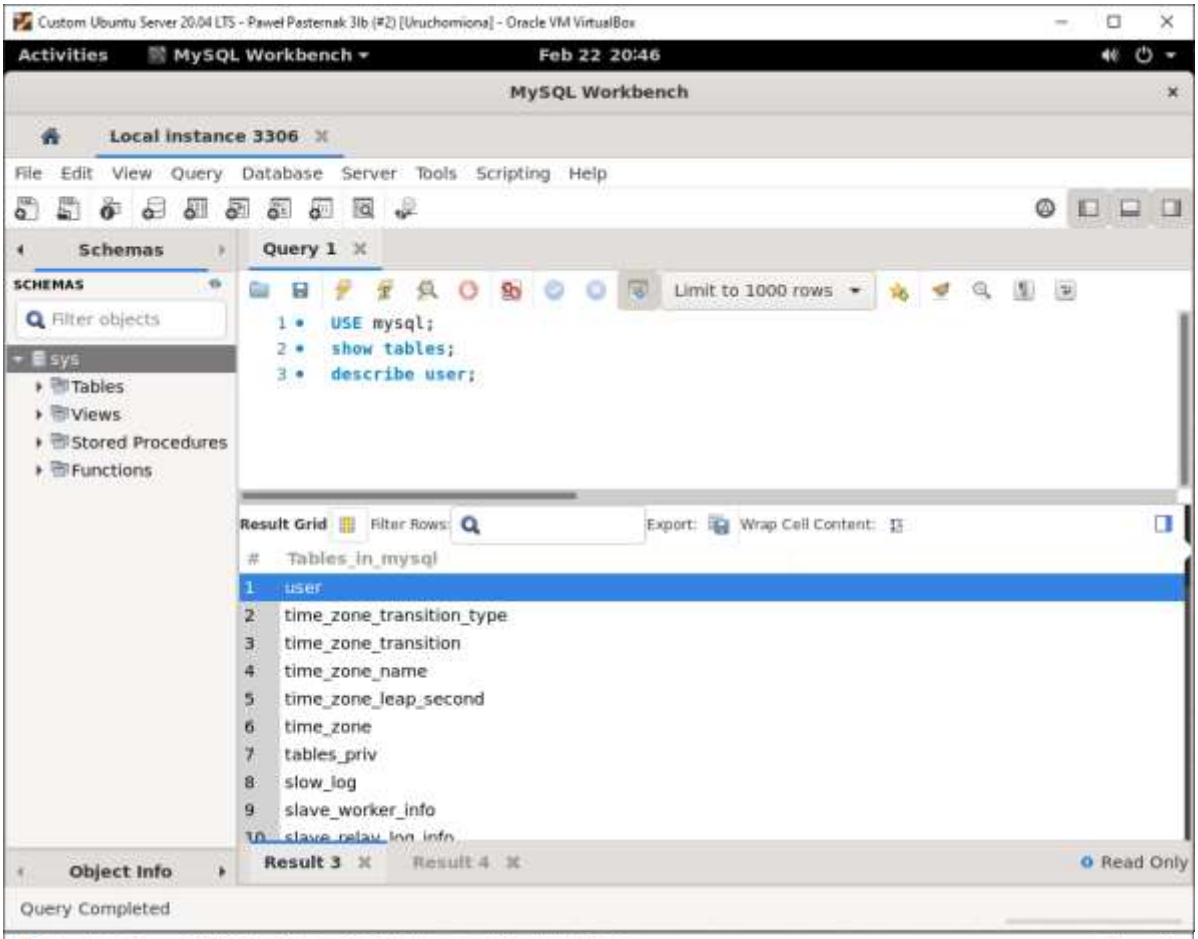
```
pp@custom-server:~$ sudo snap install mysql-workbench-community
snap "mysql-workbench-community" is already installed, see 'snap help refresh'
pp@custom-server:~$ sudo snap connect mysql-workbench-community:password-manager-service
pp@custom-server:~$ sudo snap connect mysql-workbench-community:ssh-keys
pp@custom-server:~$ sudo snap connect mysql-workbench-community:cups-control
pp@custom-server:~$
```

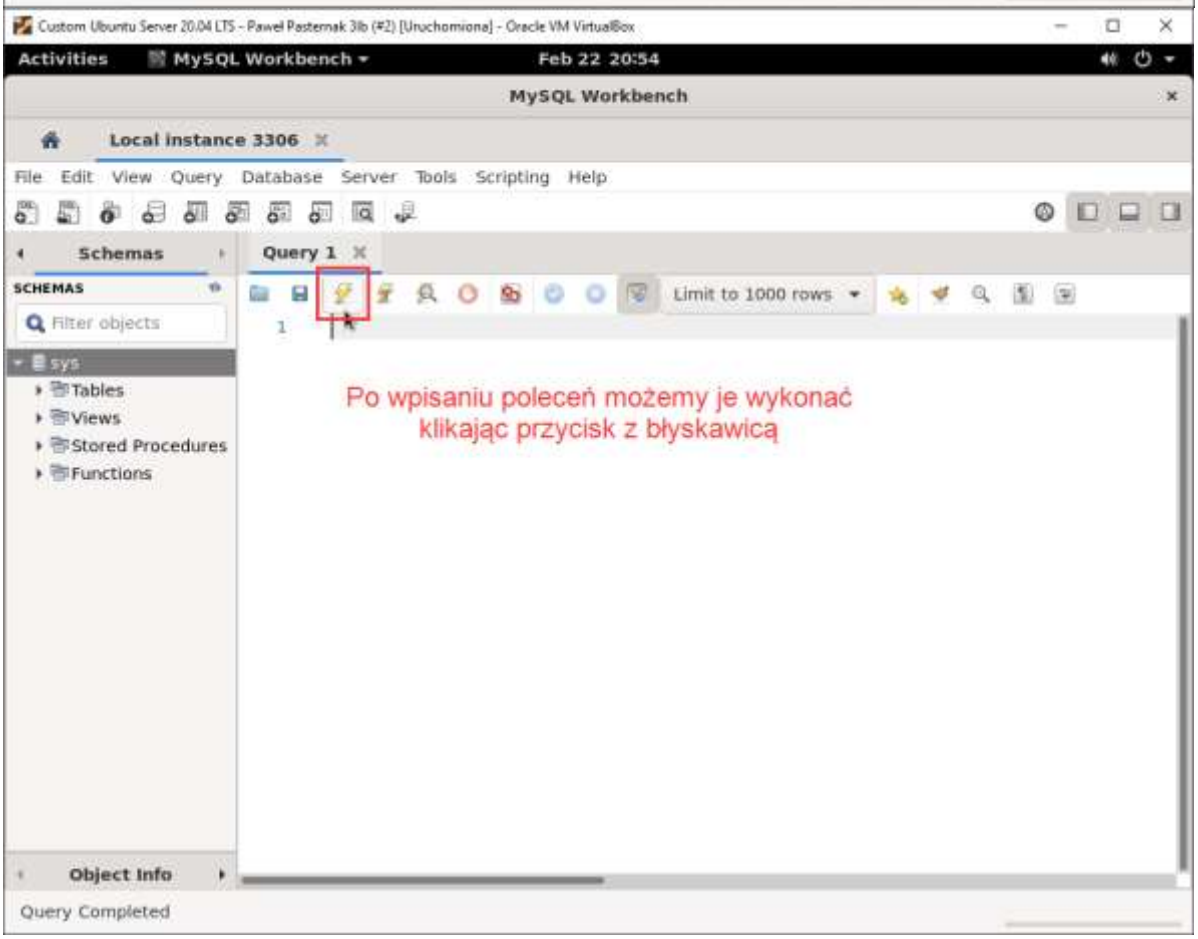



Custom Ubuntu Server 20.04 LTS - Paweł Pasternak 3Ib (#2) [Uruchomiona] - Oracle VM VirtualBox
Activities
MySQL Workbench
Feb 22 20:39
MySQL Workbench
File Edit View Database Tools Scripting Help
Welcome to MySQL Workbench
Connect to MySQL Server
Please enter password for the following service:
Service: Mysql@127.0.0.1:3306
User: root
Password:
Save password in keychain
OK
Cancel
MySQL Connect
Filter connections
Local instance 3306
root
127.0.0.1:3306
Connecting...

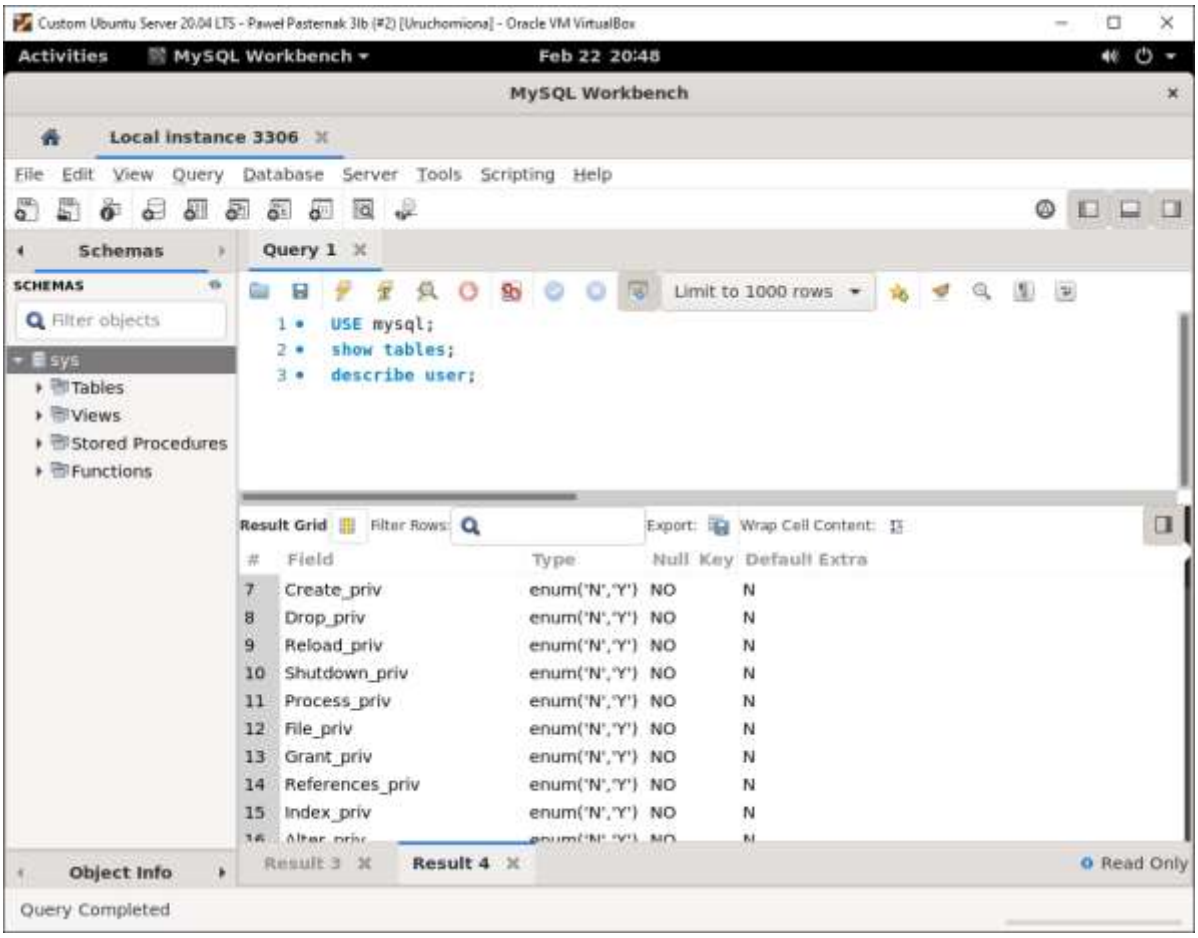
3. Wyświetlenie informacji za pomocą kwerend:

- tabele w bazie danych

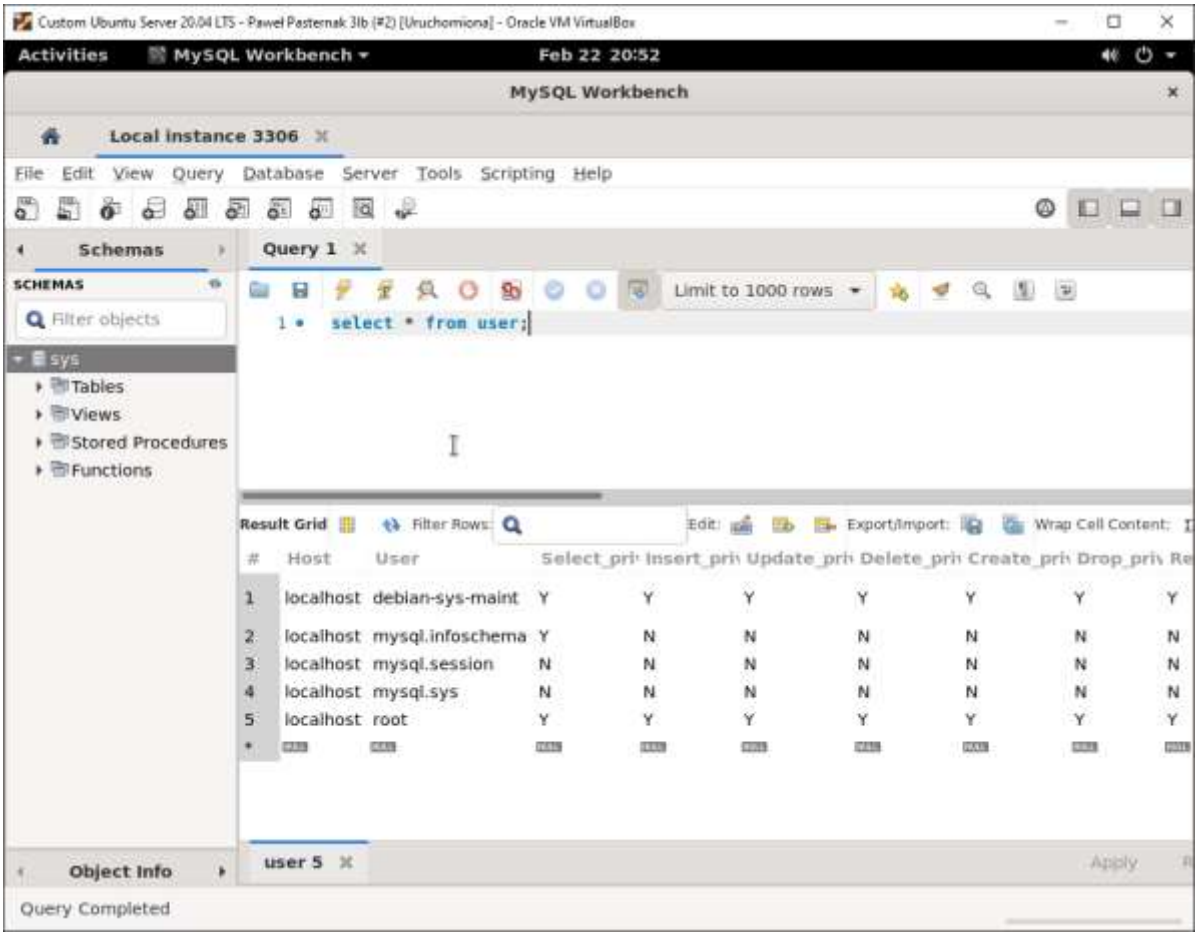




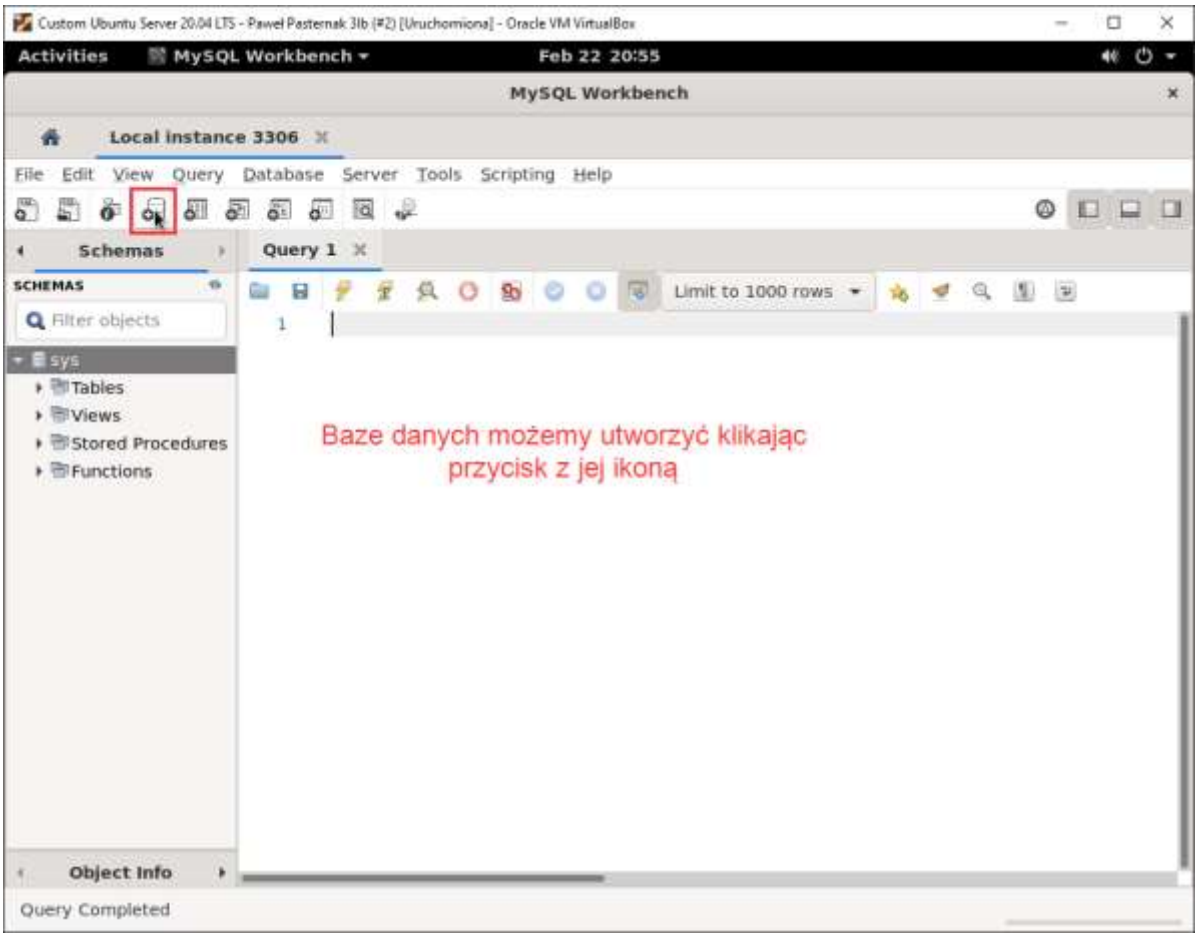
- opcje użytkownika

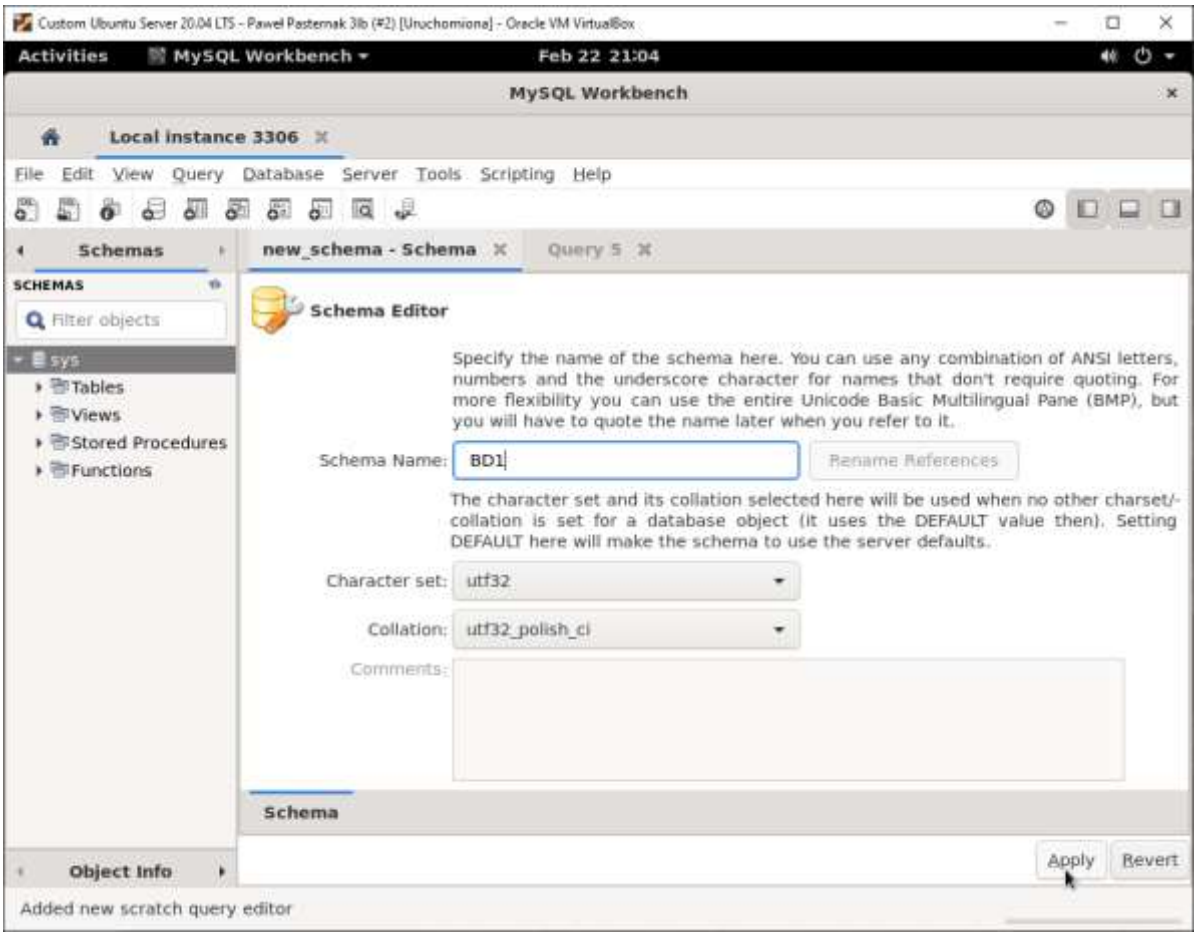


- lista użytkowników

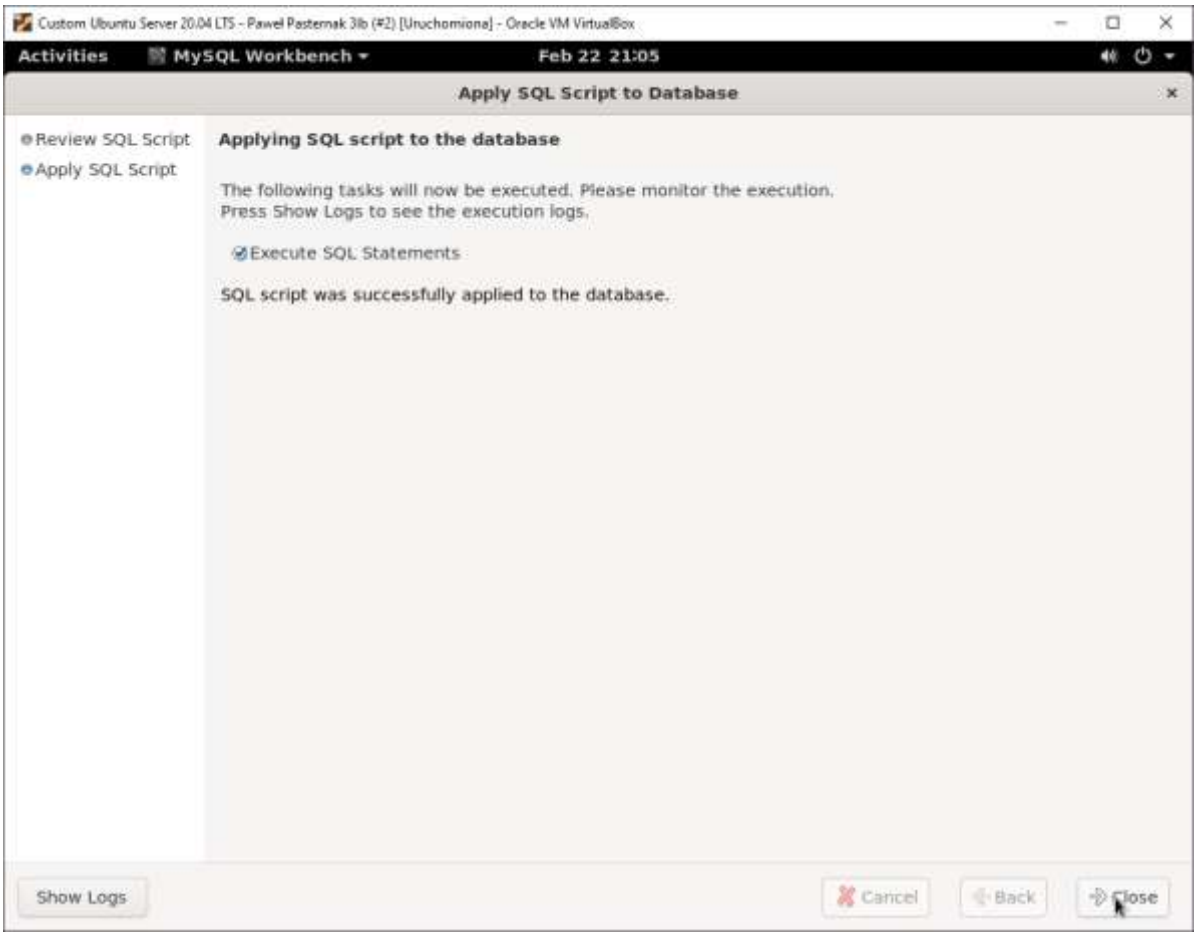


4. Tworzenie bazy danych

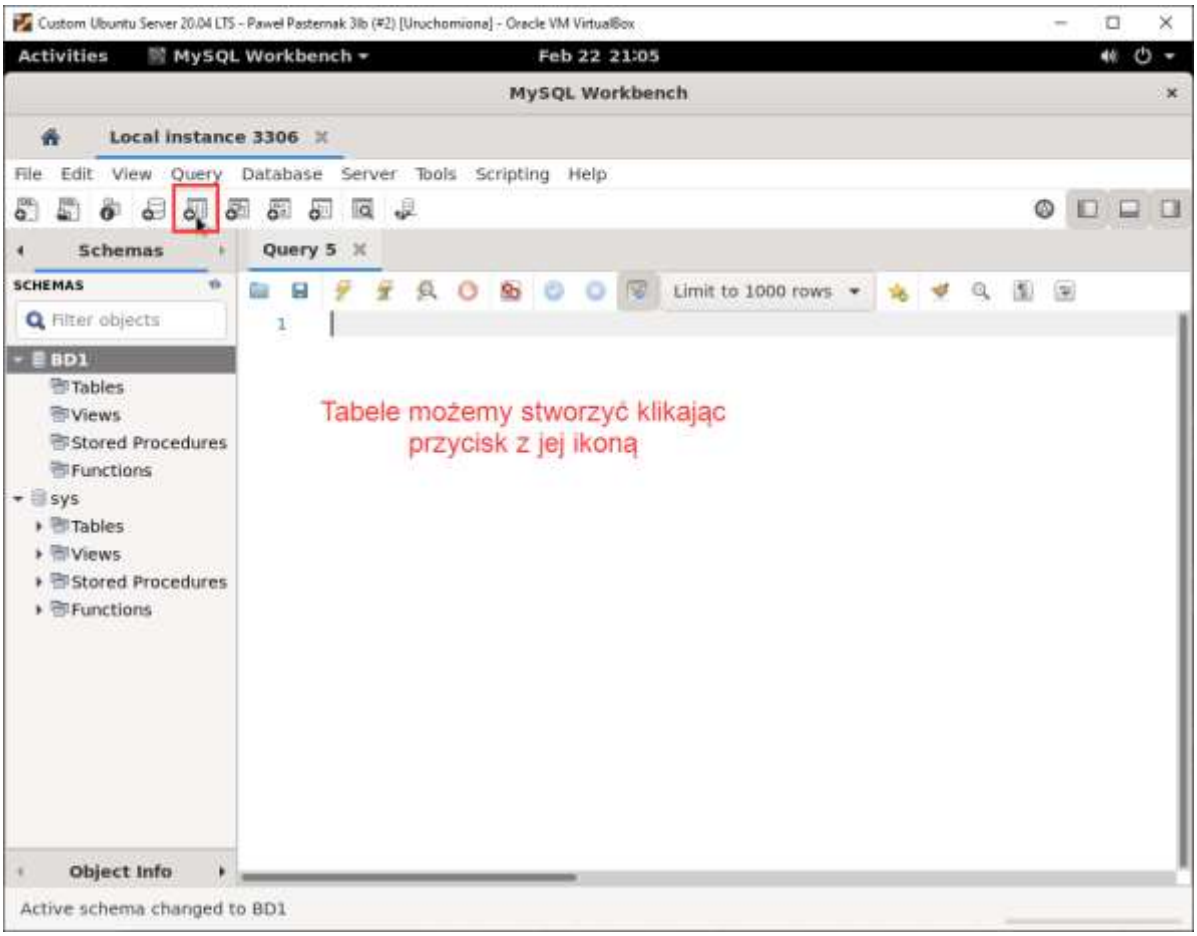


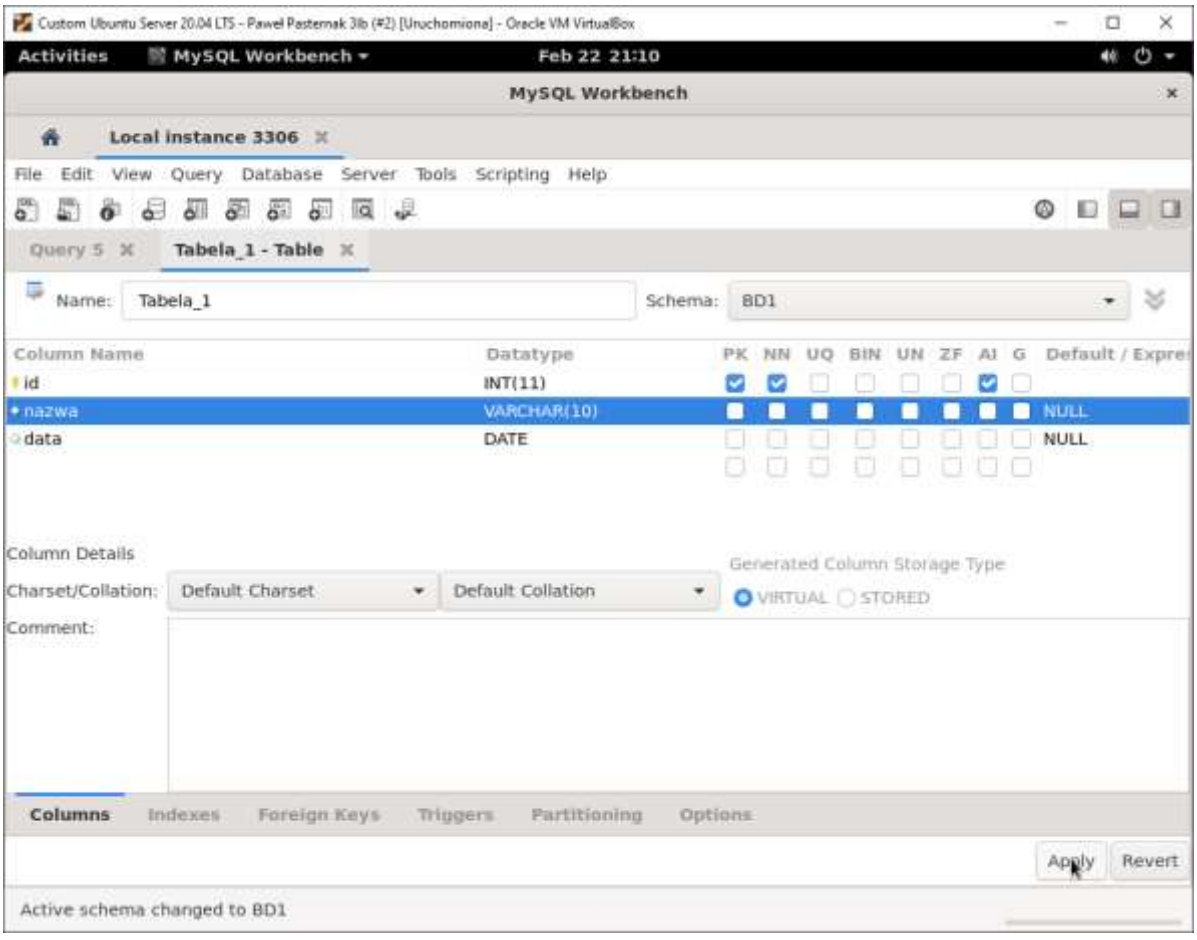


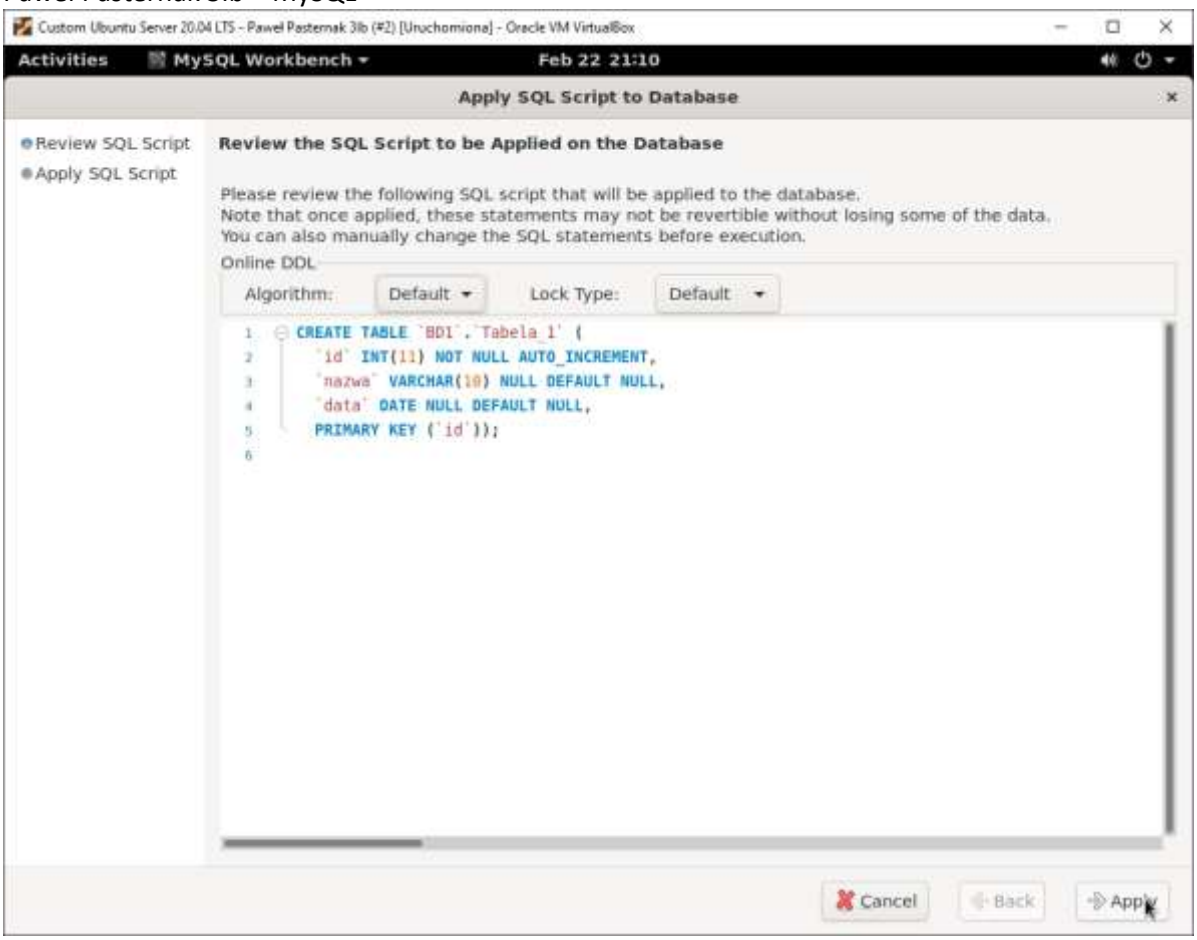
Custom Ubuntu Server 20.04 LTS - Paweł Pasternak 3Ib (#2) [Uruchomiona] - Oracle VM VirtualBox
Activities
MySQL Workbench
Feb 22 21:05
Apply SQL Script to Database
Review SQL Script
Apply SQL Script
Review the SQL Script to be Applied on the Database
Please review the following SQL script that will be applied to the database.
Note that once applied, these statements may not be revertible without losing some of the data.
You can also manually change the SQL statements before execution.
Online DDL
Algorithm:
Default
Lock Type:
Default
1 CREATE SCHEMA `BD1` DEFAULT CHARACTER SET utf32 COLLATE utf32_polish_ci ;
2
Cancel
Back
Apply

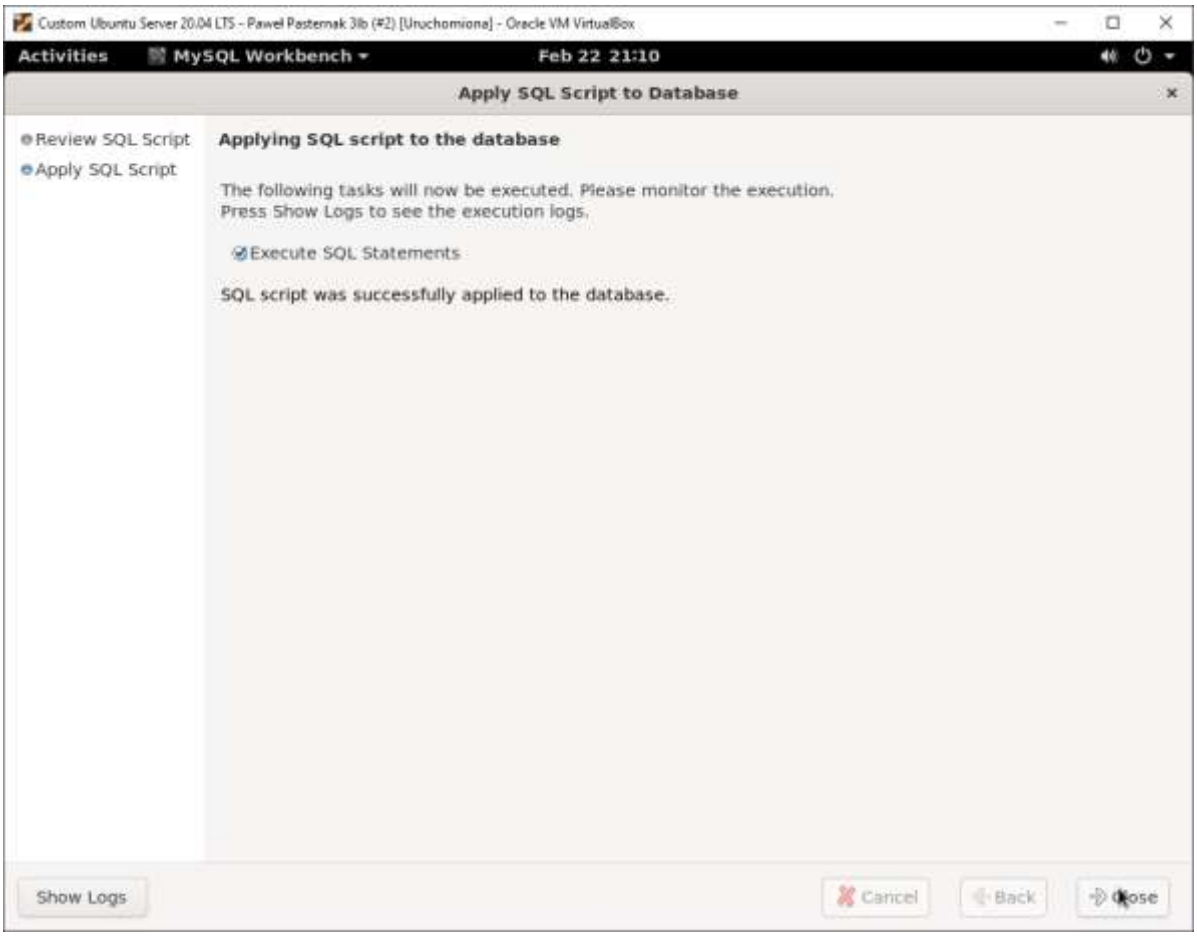

Custom Ubuntu Server 20.04 LTS - Paweł Pasternak 3Ib (#2) [Uruchomiona] - Oracle VM VirtualBox
Activities
MySQL Workbench
Feb 22 21:05
Apply SQL Script to Database
Review SQL Script
Apply SQL Script
Applying SQL script to the database
The following tasks will now be executed. Please monitor the execution.
Press Show Logs to see the execution logs.
Execute SQL Statements
SQL script was successfully applied to the database.
Show Logs
Cancel
Back
Close

5. Dodawanie tabeli do bazy danych



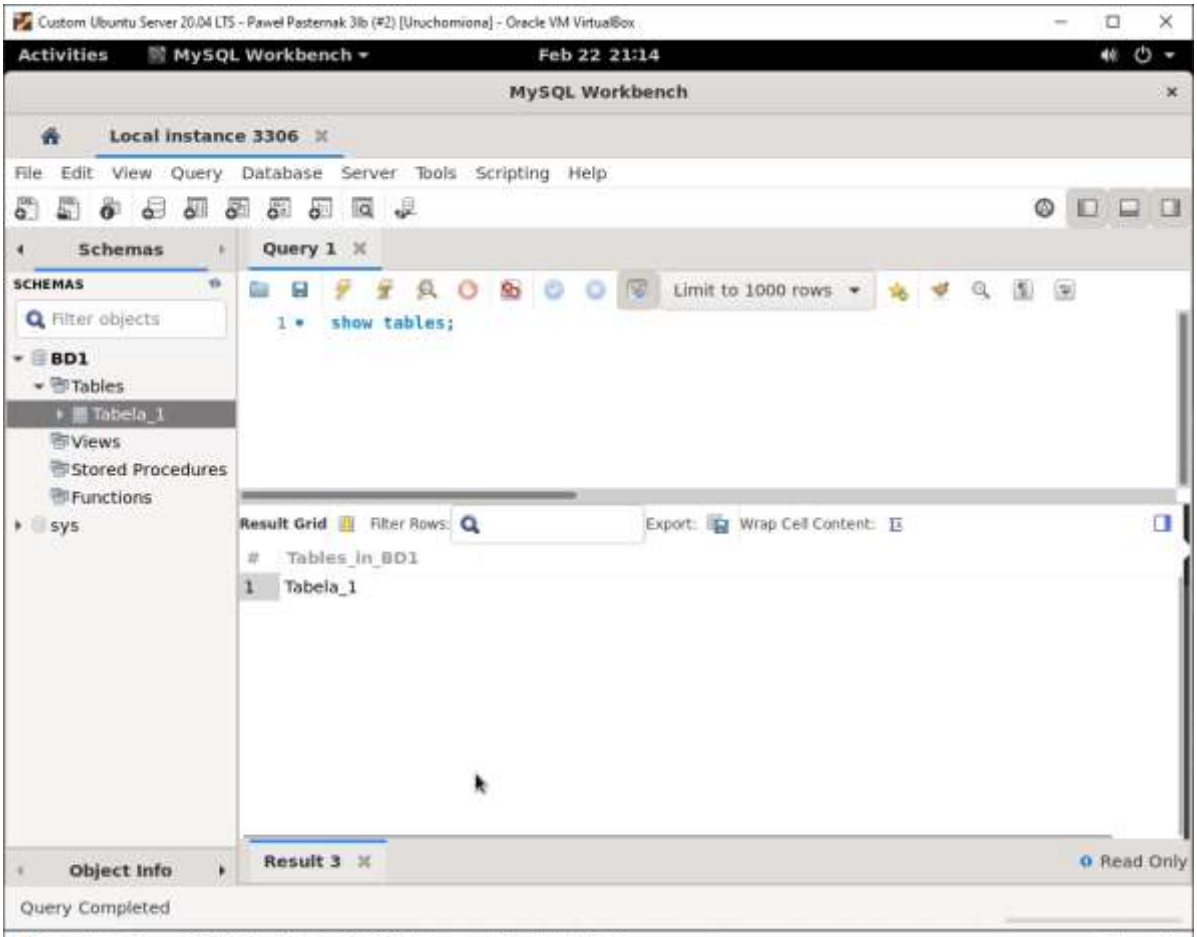


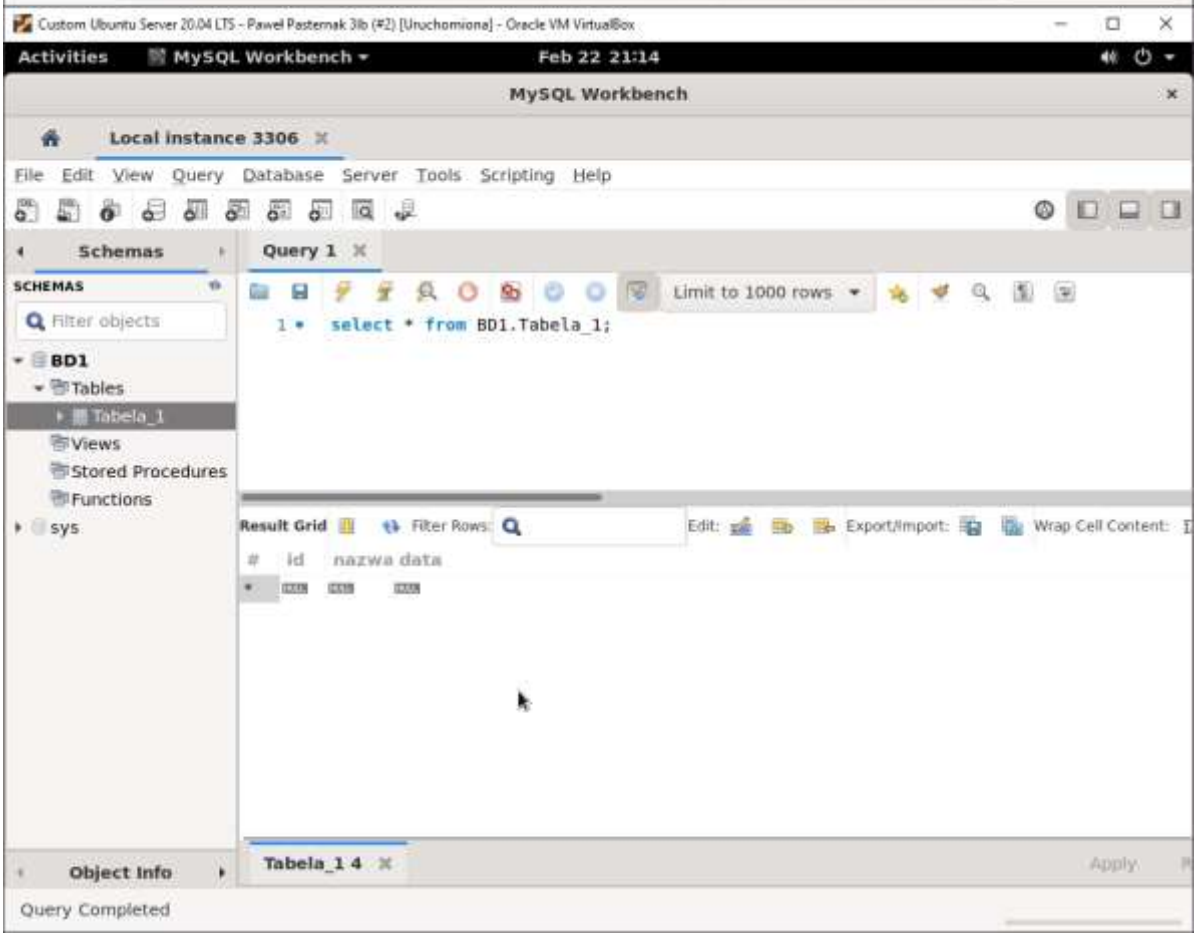

Custom Ubuntu Server 20.04 LTS - Paweł Pasternak 3Ib (#2) [Uruchomiona] - Oracle VM VirtualBox
Activities
MySQL Workbench
Feb 22 21:10
Apply SQL Script to Database
Review SQL Script
Apply SQL Script
Review the SQL Script to be Applied on the Database
Please review the following SQL script that will be applied to the database.
Note that once applied, these statements may not be revertible without losing some of the data.
You can also manually change the SQL statements before execution.
Online DDL
Algorithm:
Default
Lock Type:
Default
CREATE TABLE `BD1`.`Tabela_1` (
`id` INT(11) NOT NULL AUTO_INCREMENT,
`nazwa` VARCHAR(10) NULL DEFAULT NULL,
`data` DATE NULL DEFAULT NULL,
PRIMARY KEY (`id`));
Cancel
Back
Apply


Custom Ubuntu Server 20.04 LTS - Paweł Pasternak 3Ib (#2) [Uruchomiona] - Oracle VM VirtualBox
Activities
MySQL Workbench
Feb 22 21:10
Apply SQL Script to Database
Review SQL Script
Apply SQL Script
Applying SQL script to the database
The following tasks will now be executed. Please monitor the execution.
Press Show Logs to see the execution logs.
Execute SQL Statements
SQL script was successfully applied to the database.
Show Logs
Cancel
Back
Close

6. Praca z bazą danych

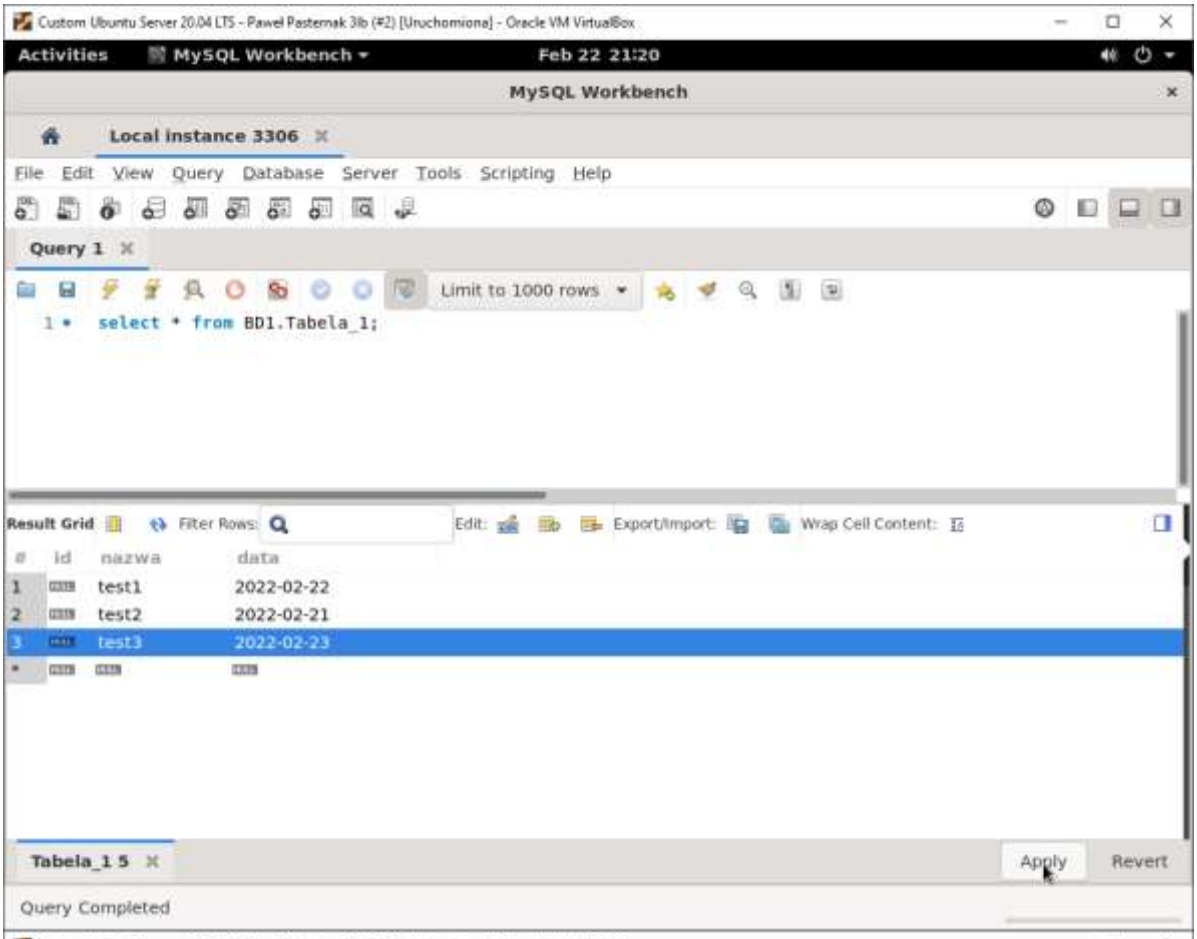
- Pokazanie istniejących w niej tabel i wszystkich w niej danych

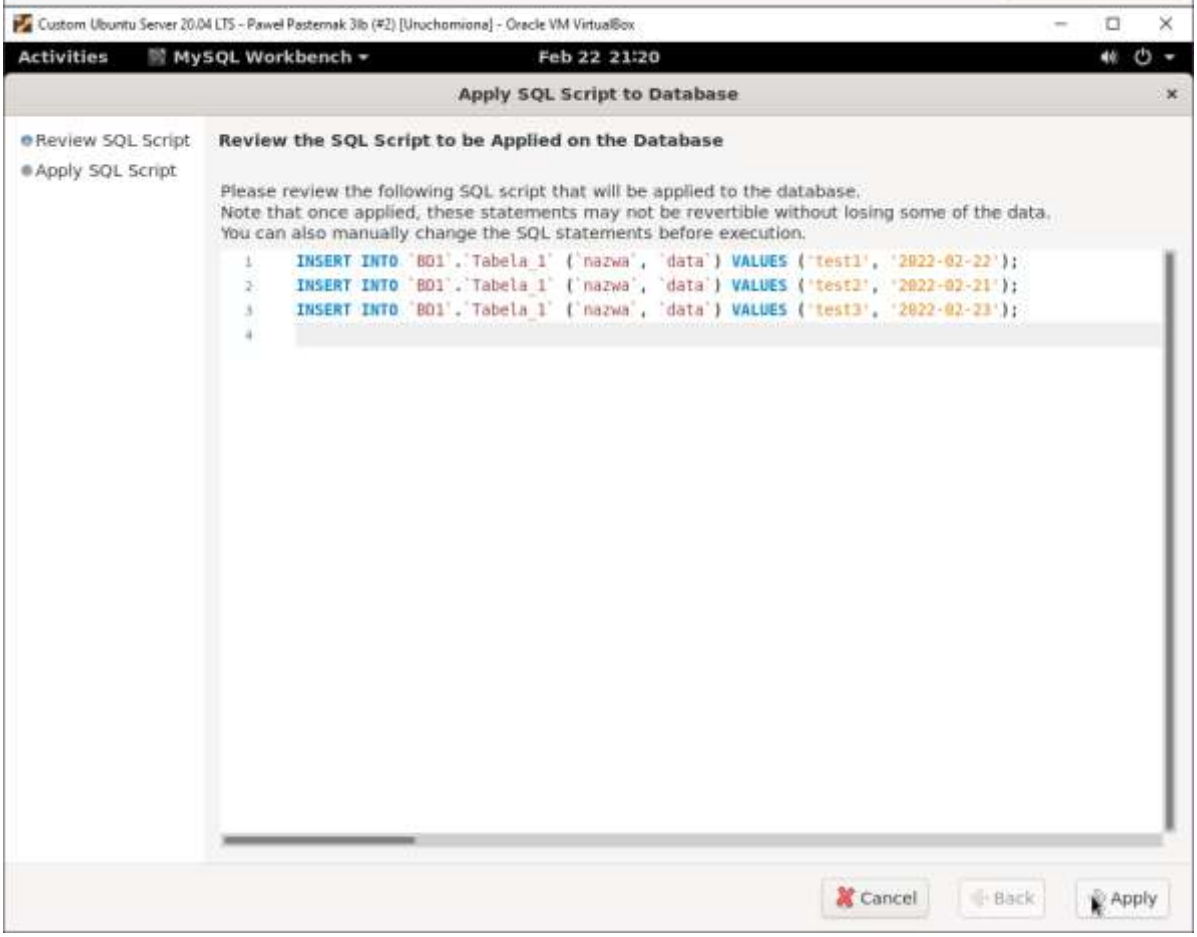


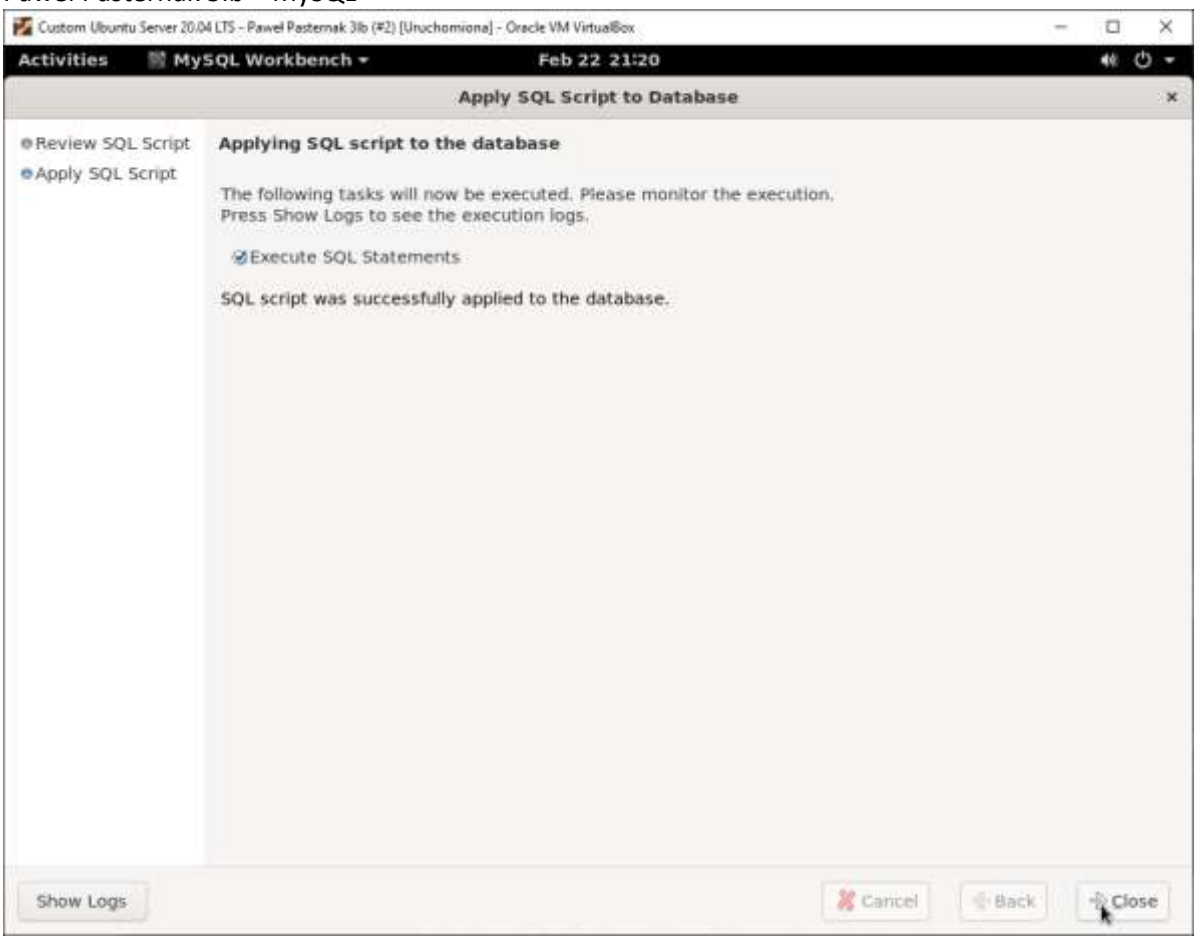


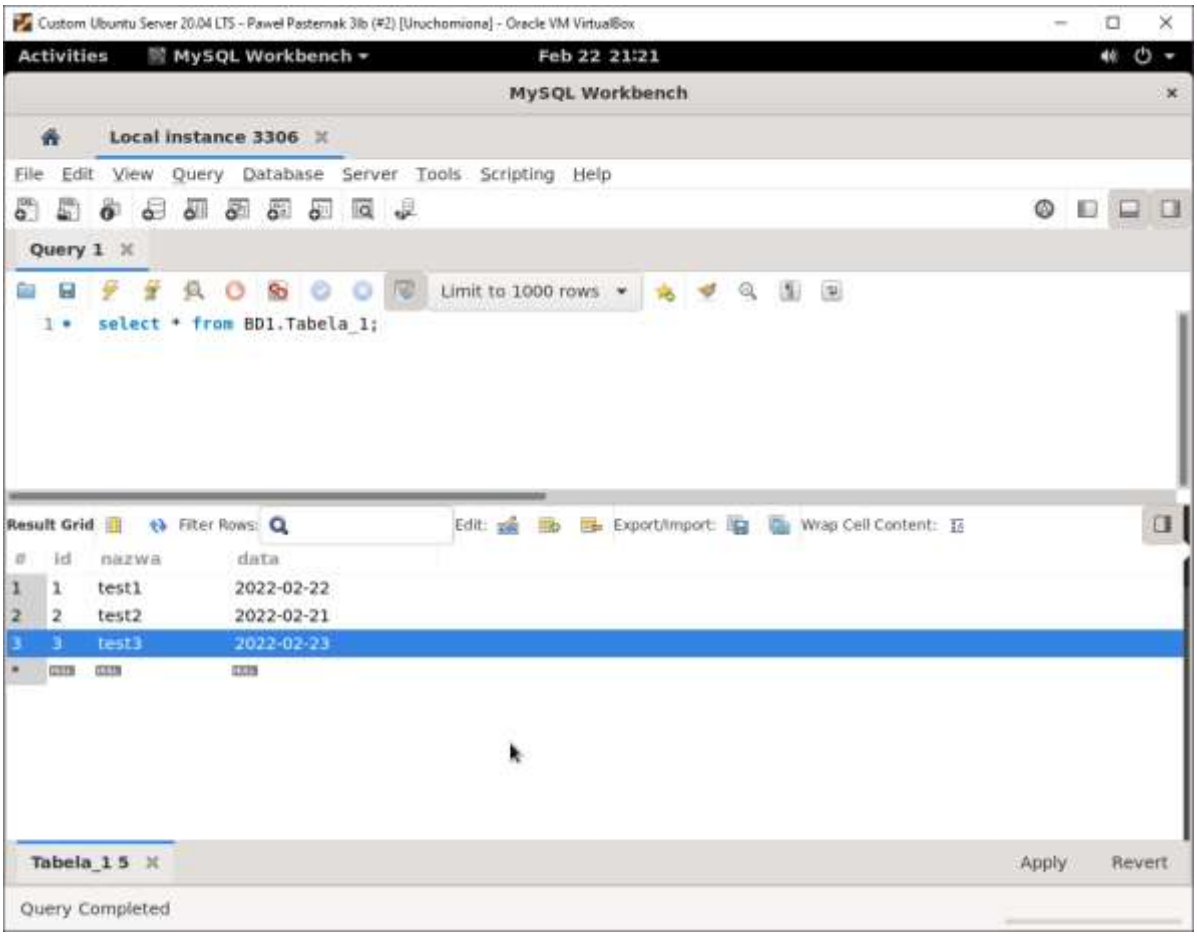
7. Dodawanie rekordów do tabeli

- Za pomocą GUI

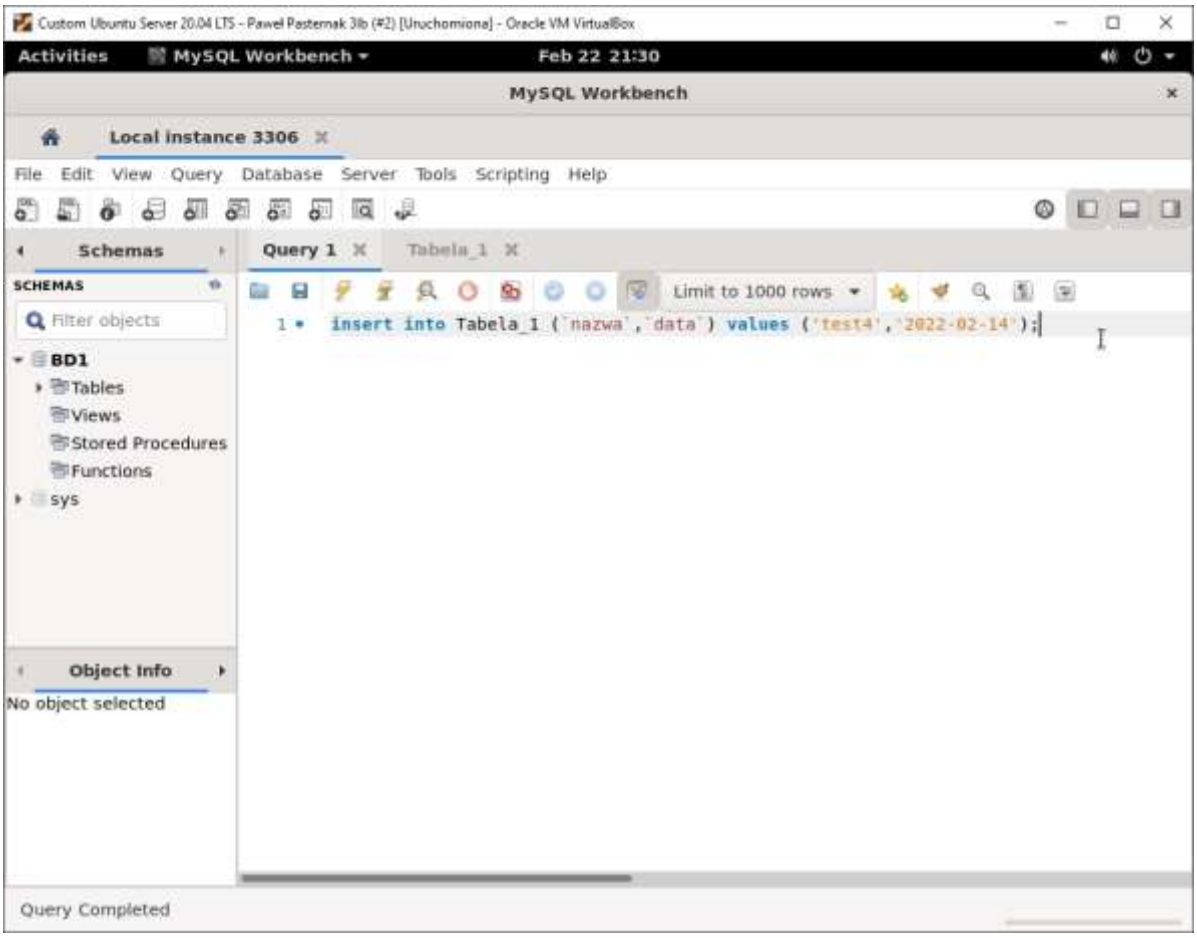


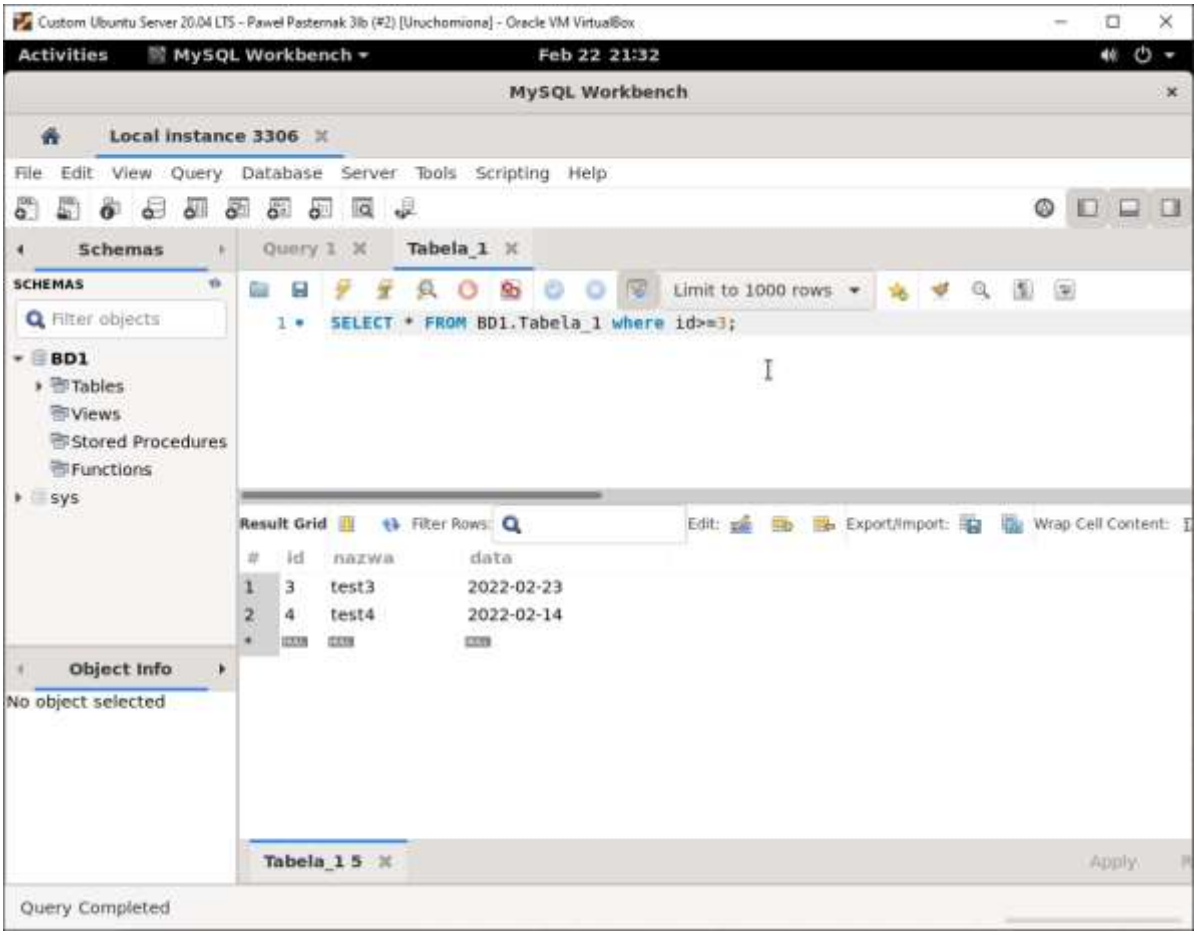



Custom Ubuntu Server 20.04 LTS - Paweł Pasternak 3Ib (#2) [Uruchomiona] - Oracle VM VirtualBox
Activities
MySQL Workbench
Feb 22 21:20
Apply SQL Script to Database
Review SQL Script
Apply SQL Script
Applying SQL script to the database
The following tasks will now be executed. Please monitor the execution.
Press Show Logs to see the execution logs.
Execute SQL Statements
SQL script was successfully applied to the database.
Show Logs
Cancel
Back
Close

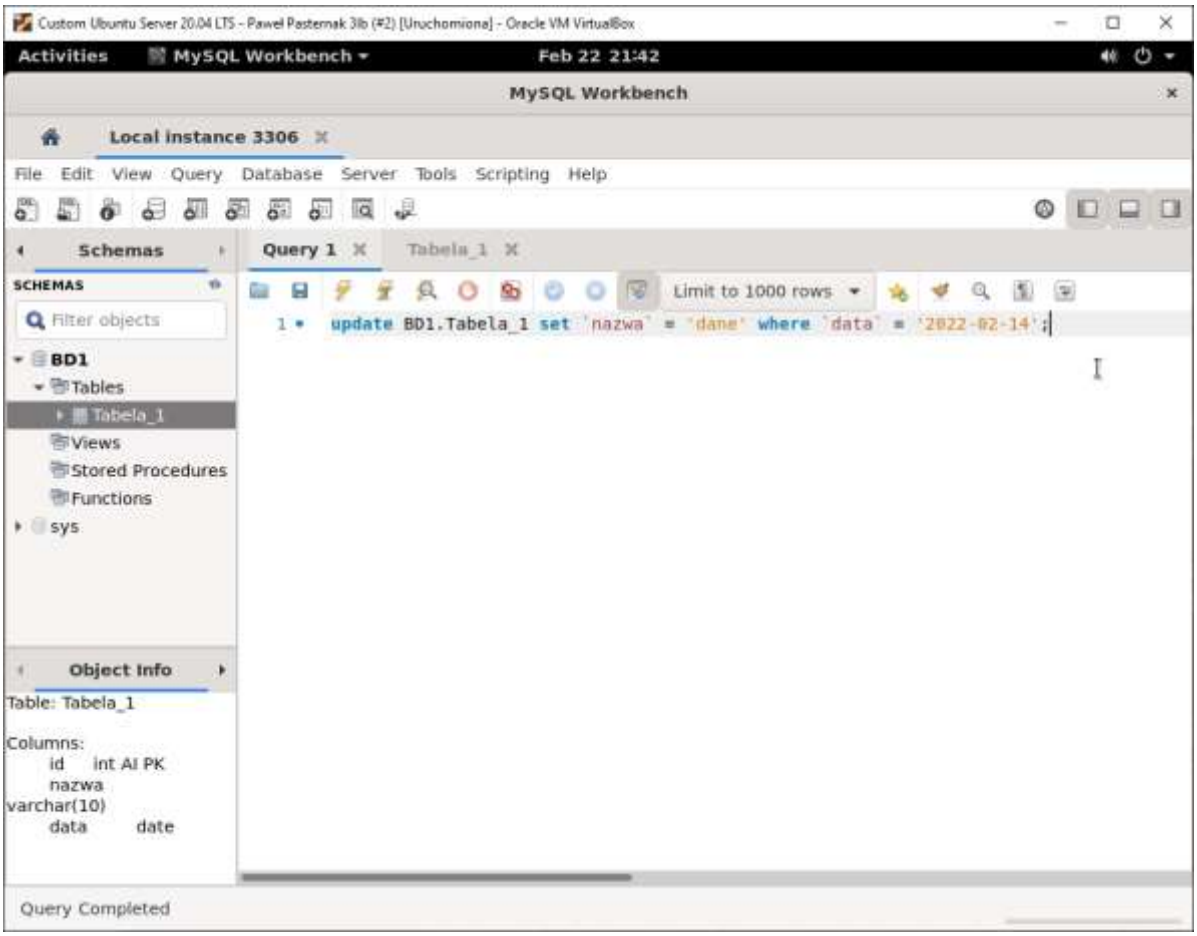

Custom Ubuntu Server 20.04 LTS - Paweł Pasternak 3Ib (#2) [Uruchomiona] - Oracle VM VirtualBox
Activities
MySQL Workbench
Feb 22 21:21
MySQL Workbench
Local instance 3306
File Edit View Query Database Server Tools Scripting Help
Query 1
Limit to 1000 rows
1 • select * from BD1.Tabela_1;
Result Grid
Filter Rows:
Edit:
Export/Import:
Wrap Cell Content:
id nazwa data
1 1 test1 2022-02-22
2 2 test2 2022-02-21
3 3 test3 2022-02-23
Tabela_1 5
Apply
Revert
Query Completed

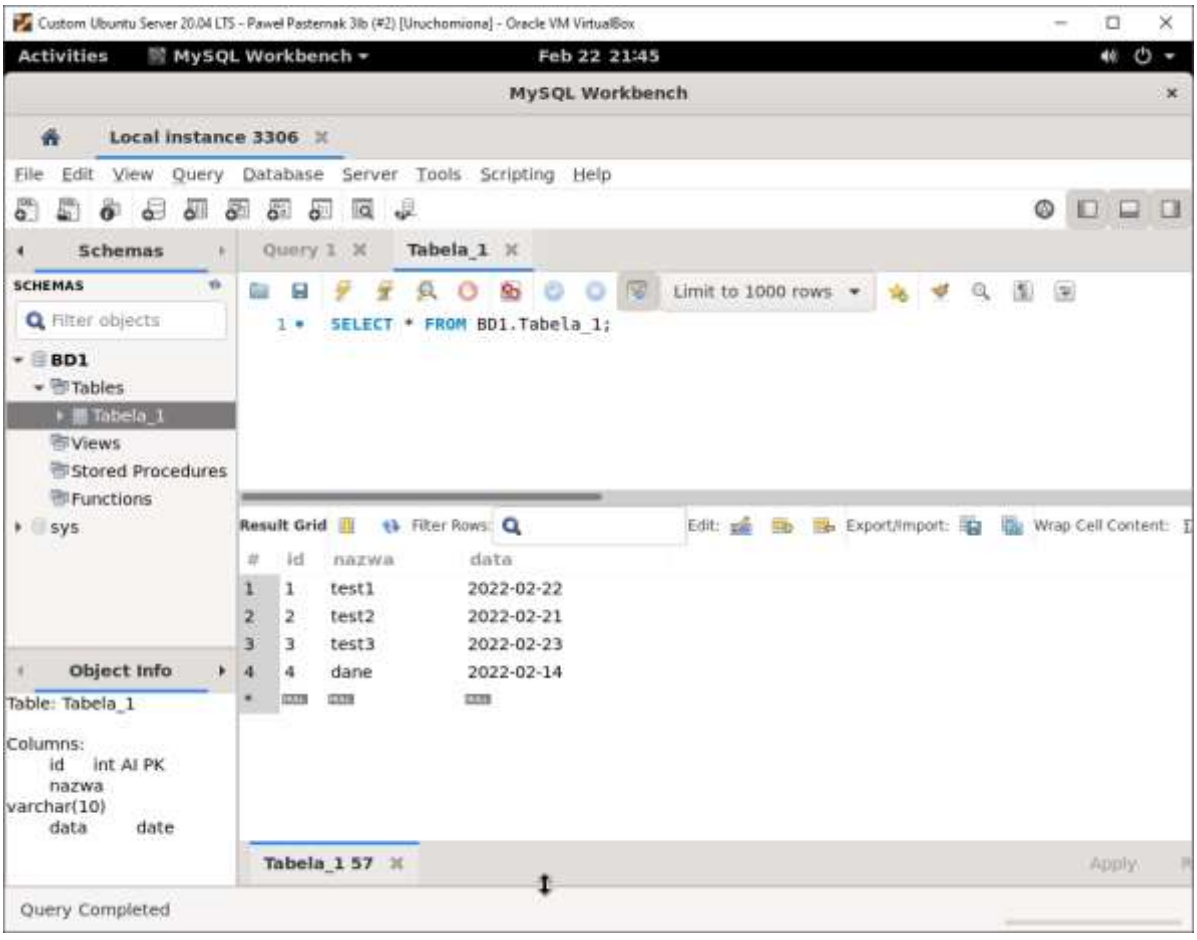
- Za pomocą poleceń



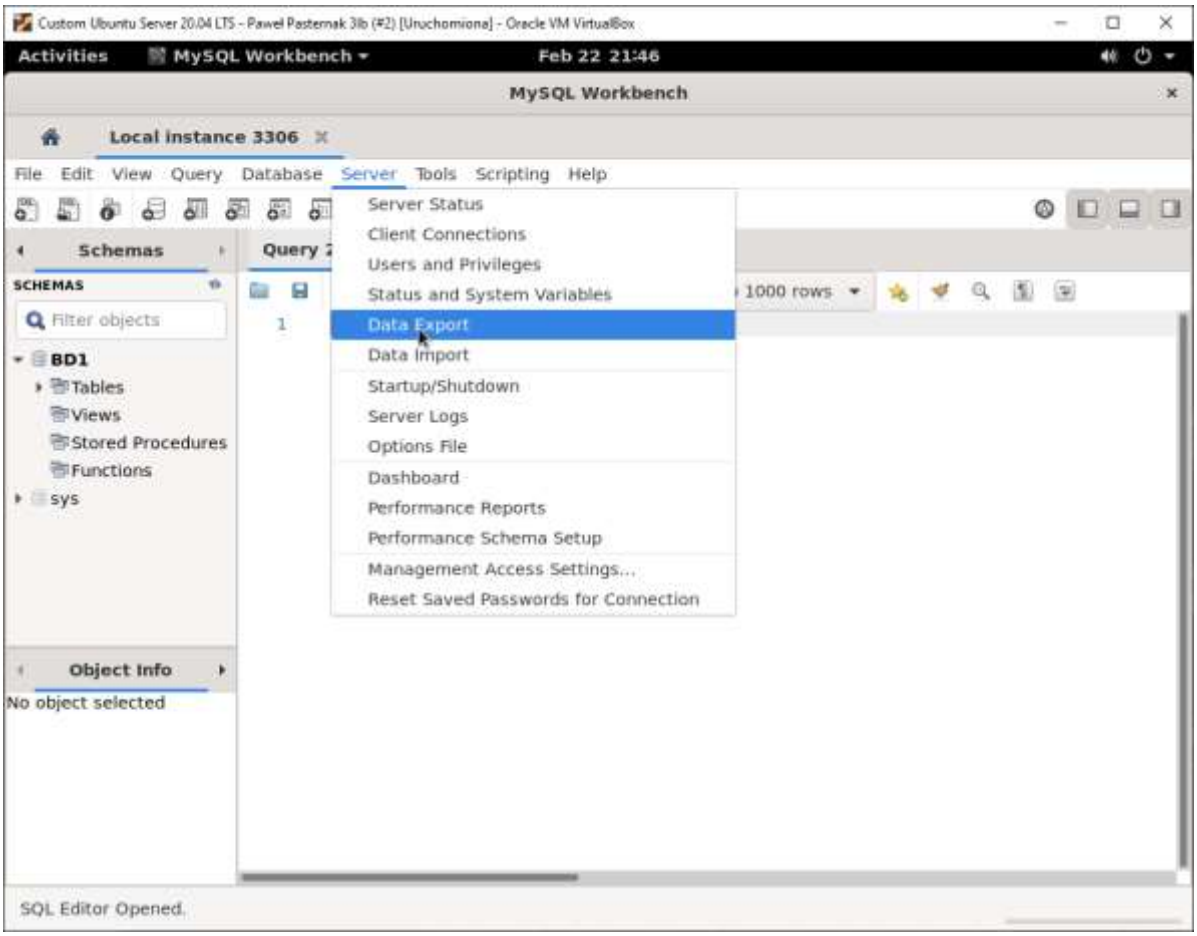


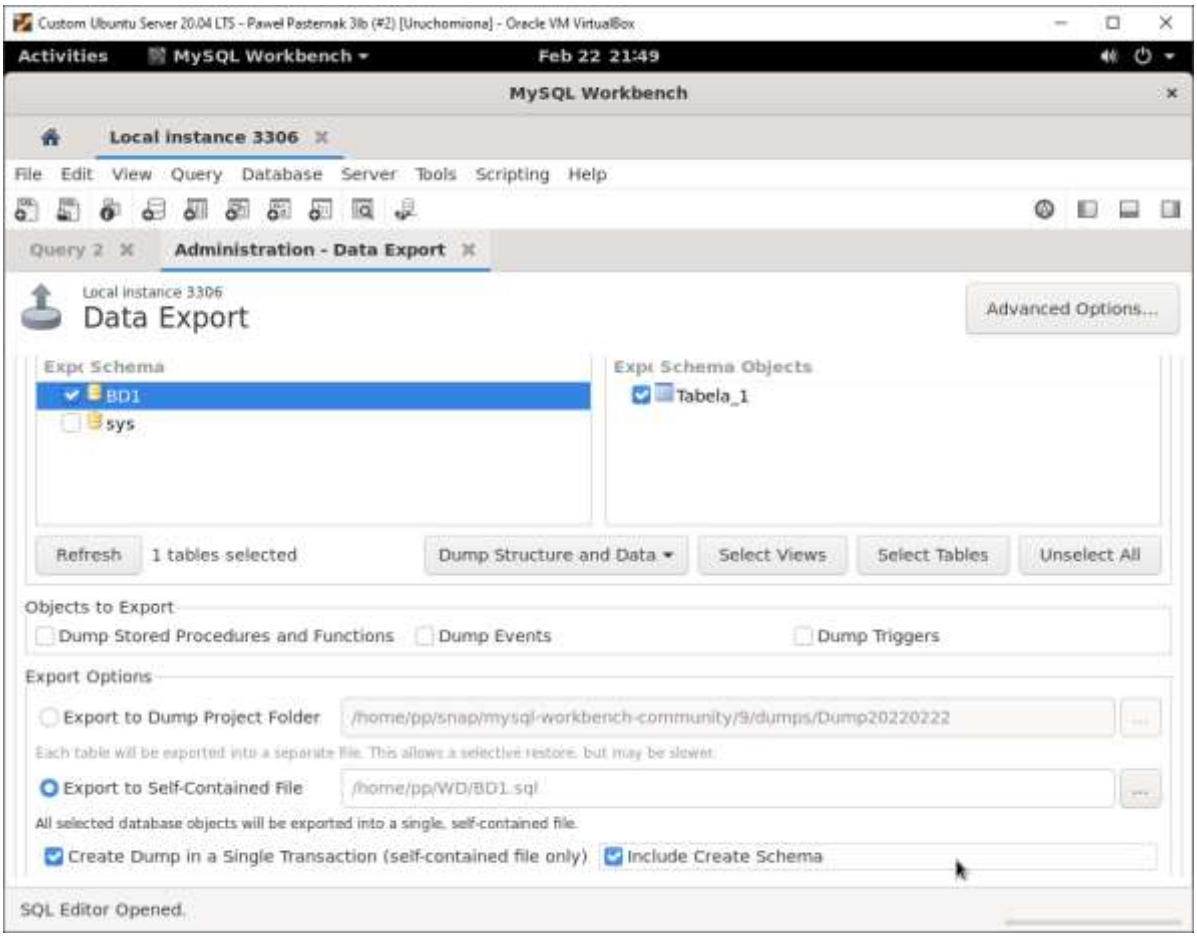
8. Aktualizowanie rekordów w tabeli

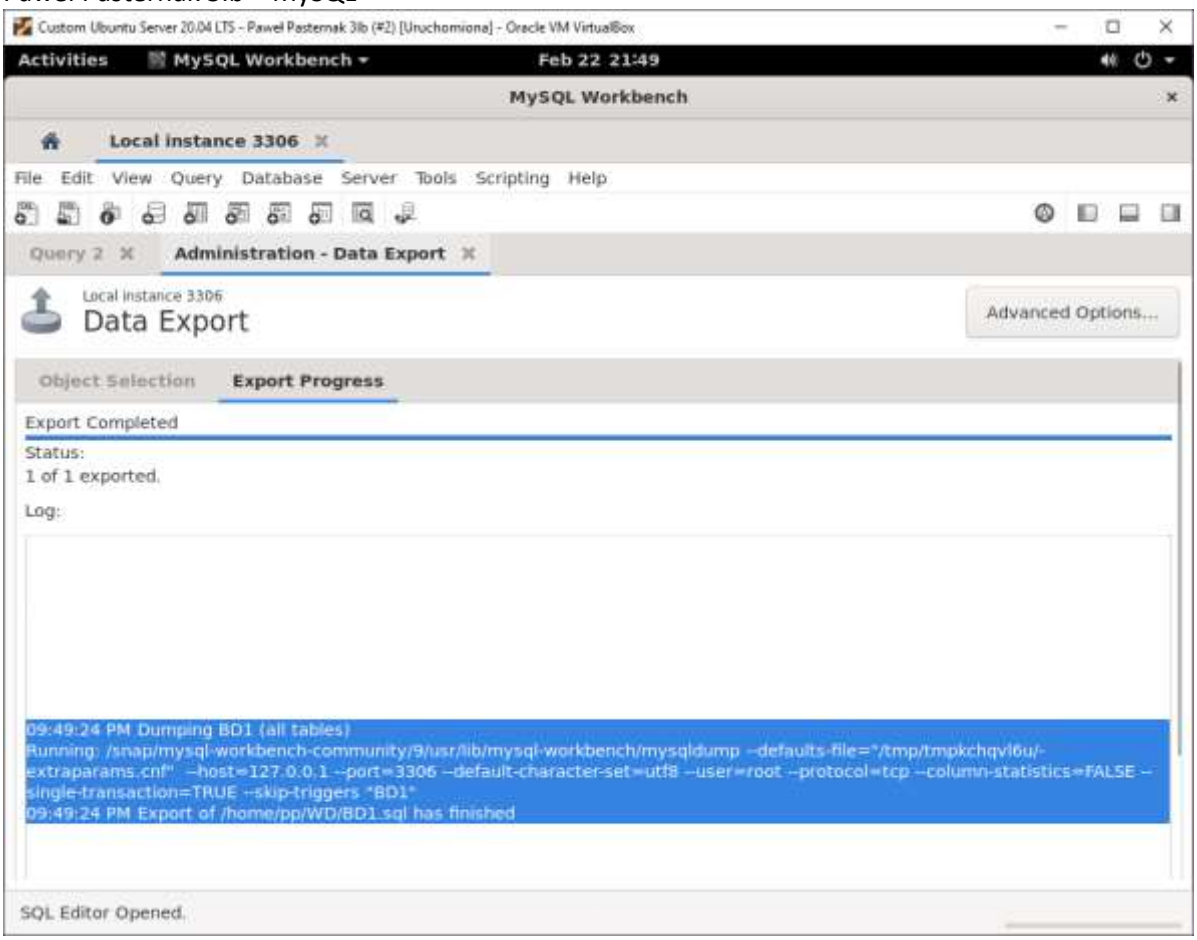




9. Eksportowanie baz danych



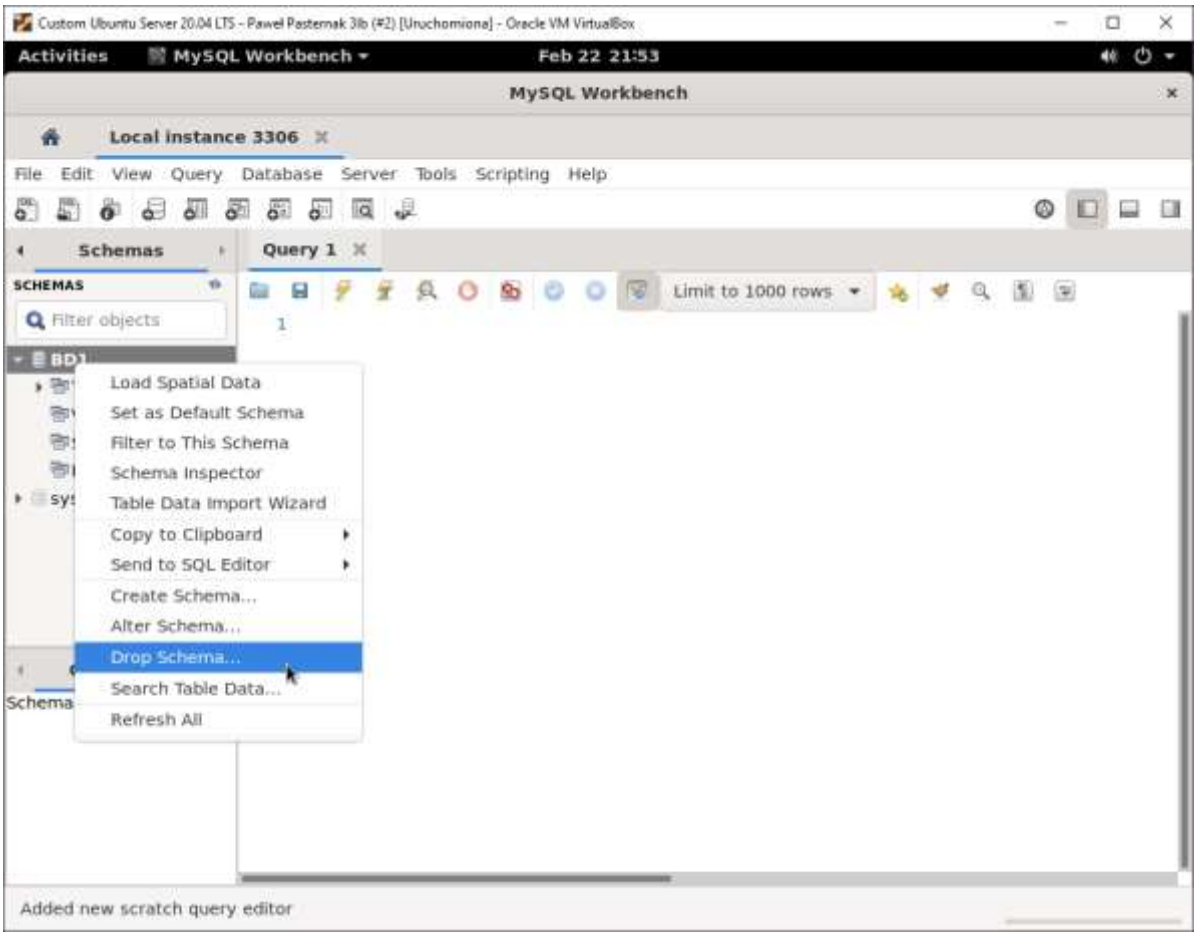


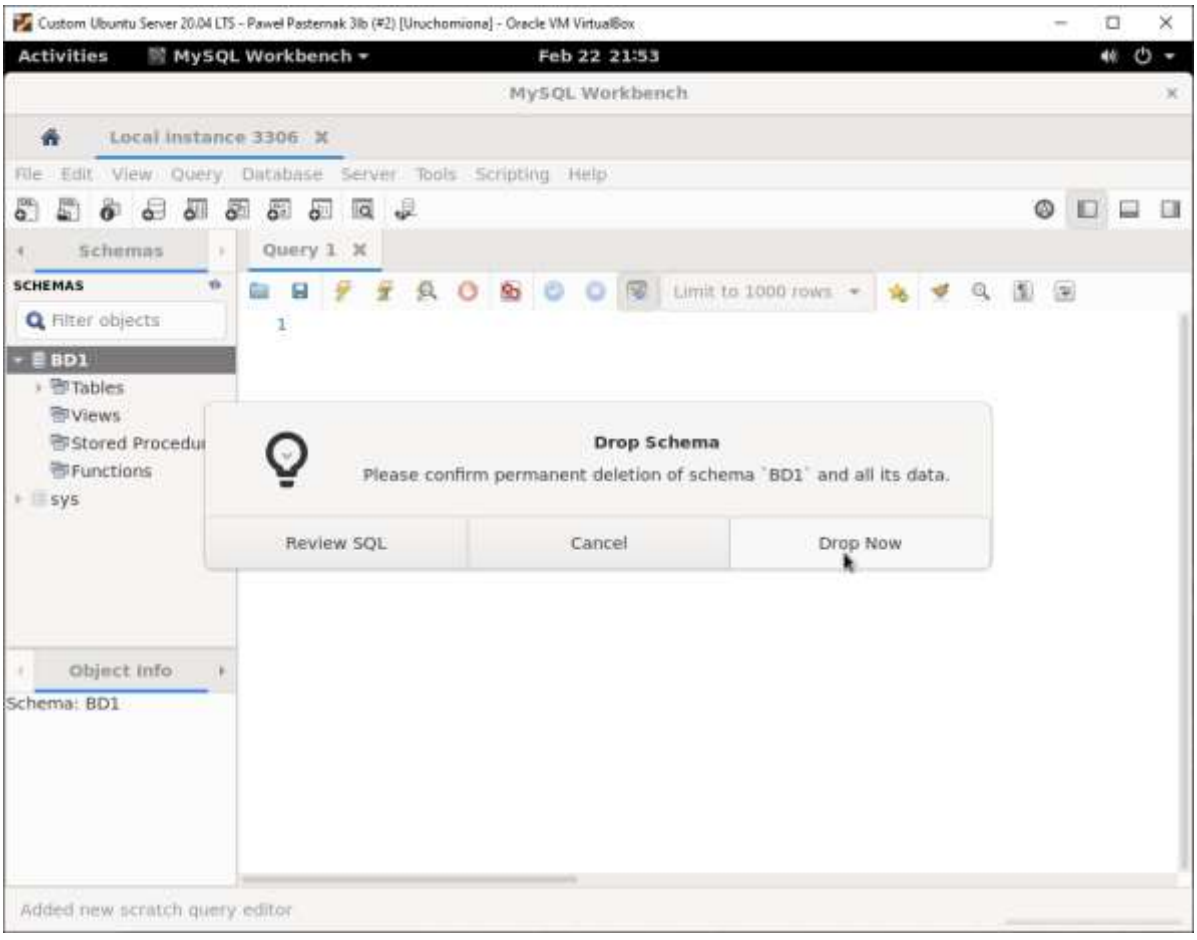


- Schemat do utworzenia tabeli:

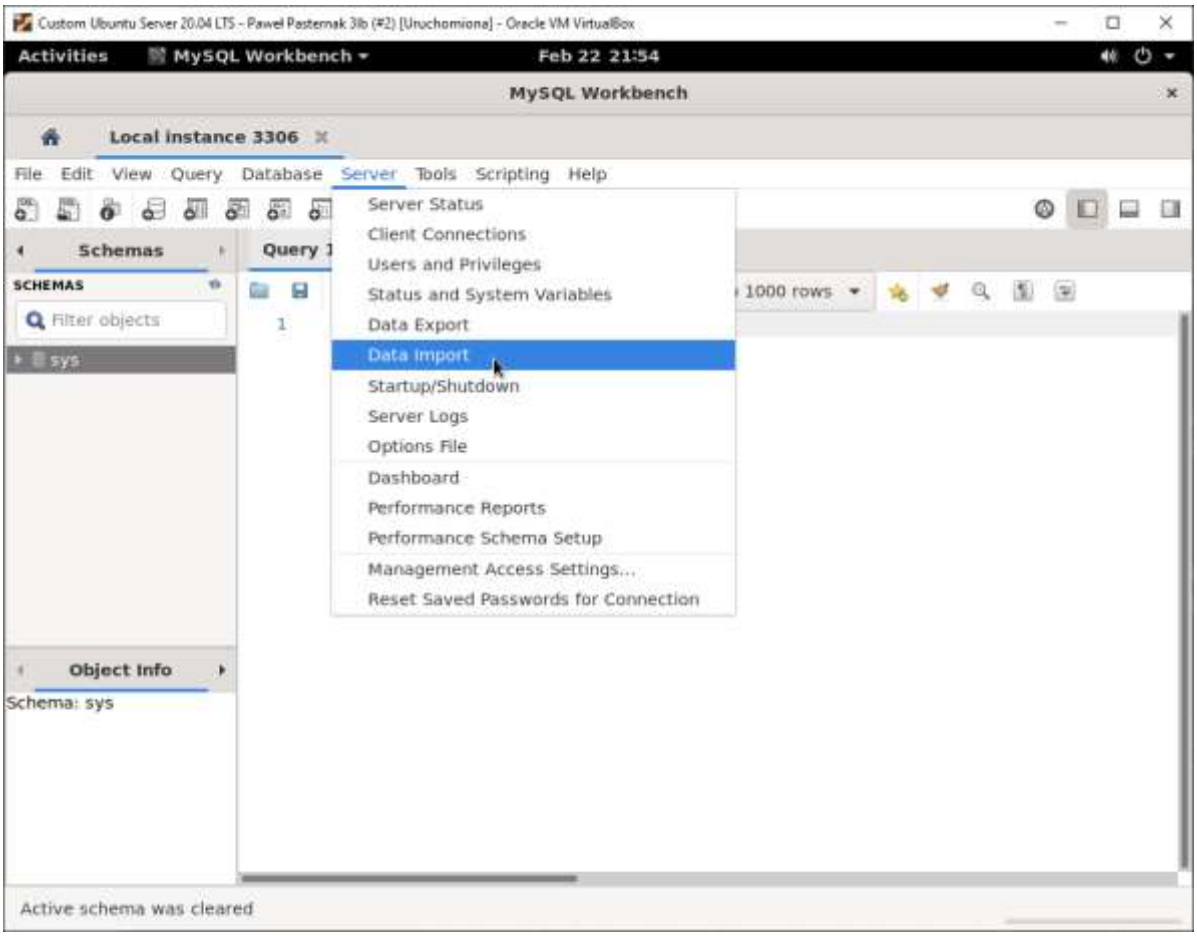
```
CREATE DATABASE  IF NOT EXISTS `BD1` /*!40100 DEFAULT CHARACTER SET utf32 COLLATE utf32_polish_ci */ /*!80
016 DEFAULT ENCRYPTION='N' */;
USE `BD1`;
-- MySQL dump 10.13  Distrib 8.0.25, for Linux (x86_64)
--
-- Host: 127.0.0.1    Database: BD1
-- ------------------------------------------------------
-- Server version       8.0.28-0ubuntu0.20.04.3

/*!40101 SET @OLD_CHARACTER_SET_CLIENT=@@CHARACTER_SET_CLIENT */;
/*!40101 SET @OLD_CHARACTER_SET_RESULTS=@@CHARACTER_SET_RESULTS */;
/*!40101 SET @OLD_COLLATION_CONNECTION=@@COLLATION_CONNECTION */;
/*!50503 SET NAMES utf8 */;
/*!40103 SET @OLD_TIME_ZONE=@@TIME_ZONE */;
/*!40103 SET TIME_ZONE='+00:00' */;
/*!40014 SET @OLD_UNIQUE_CHECKS=@@UNIQUE_CHECKS, UNIQUE_CHECKS=0 */;
/*!40014 SET @OLD_FOREIGN_KEY_CHECKS=@@FOREIGN_KEY_CHECKS, FOREIGN_KEY_CHECKS=0 */;
/*!40101 SET @OLD_SQL_MODE=@@SQL_MODE, SQL_MODE='NO_AUTO_VALUE_ON_ZERO' */;
/*!40111 SET @OLD_SQL_NOTES=@@SQL_NOTES, SQL_NOTES=0 */;

--
-- Table structure for table `Tabela_1`
--

DROP TABLE IF EXISTS `Tabela_1`;
BD1.sql                                                    3,1           Top
```

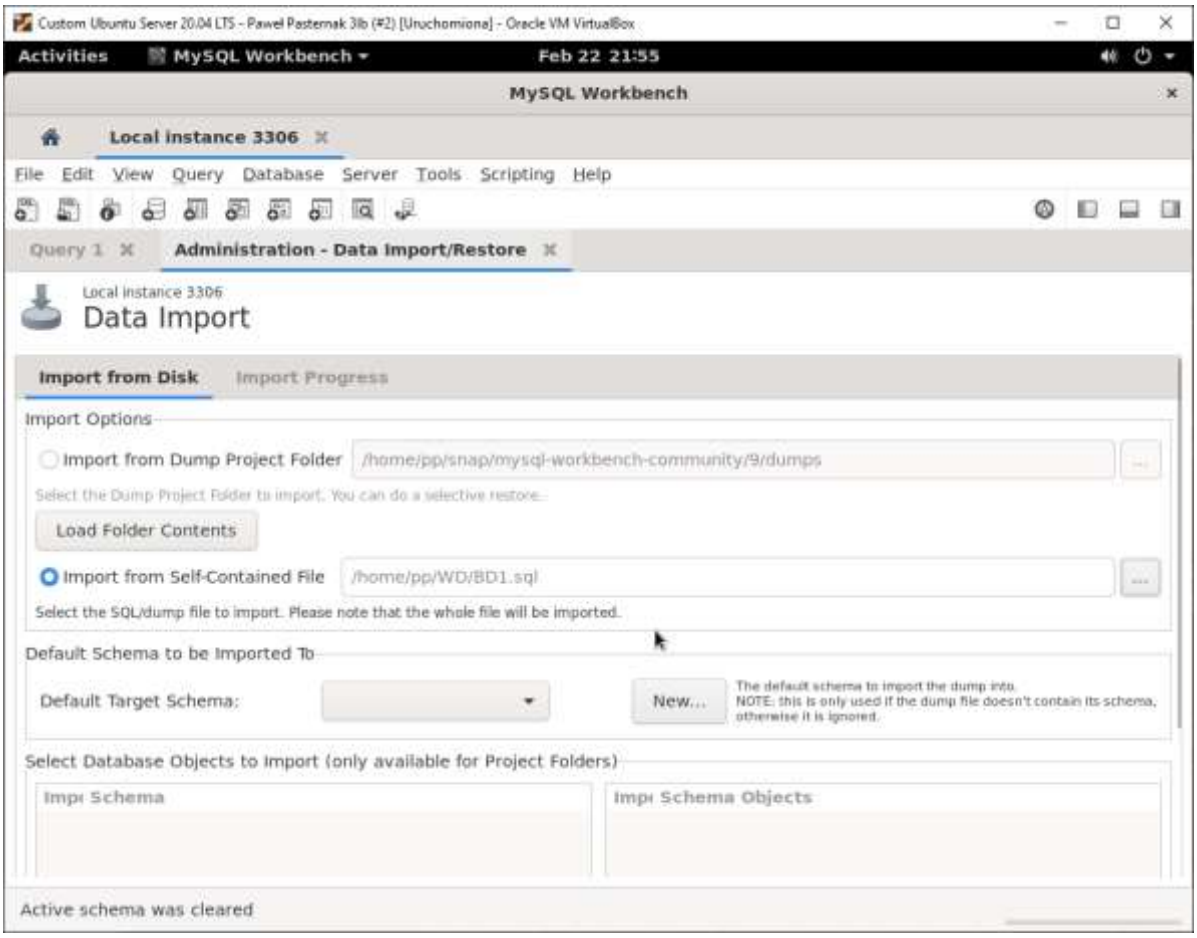
10. Usunięcie bazy danych

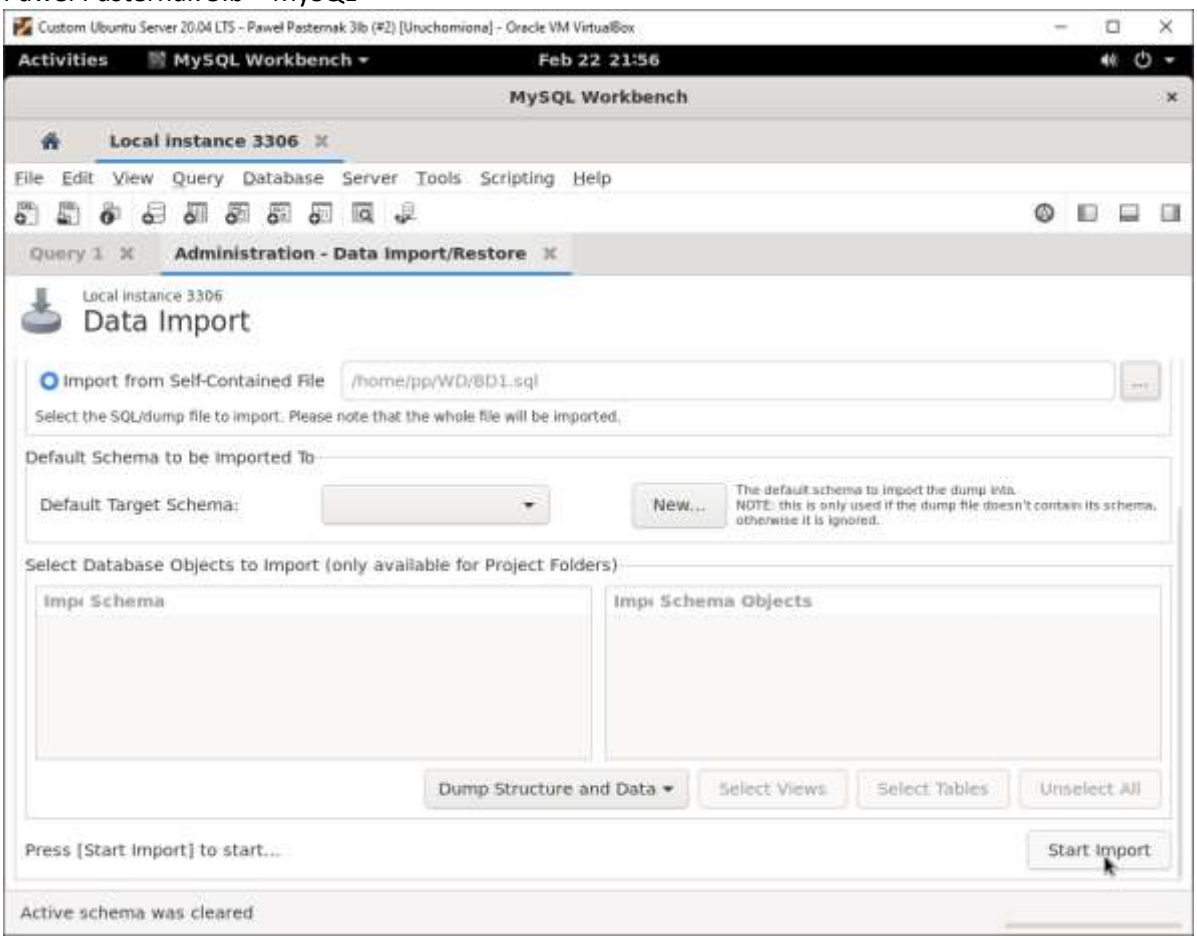


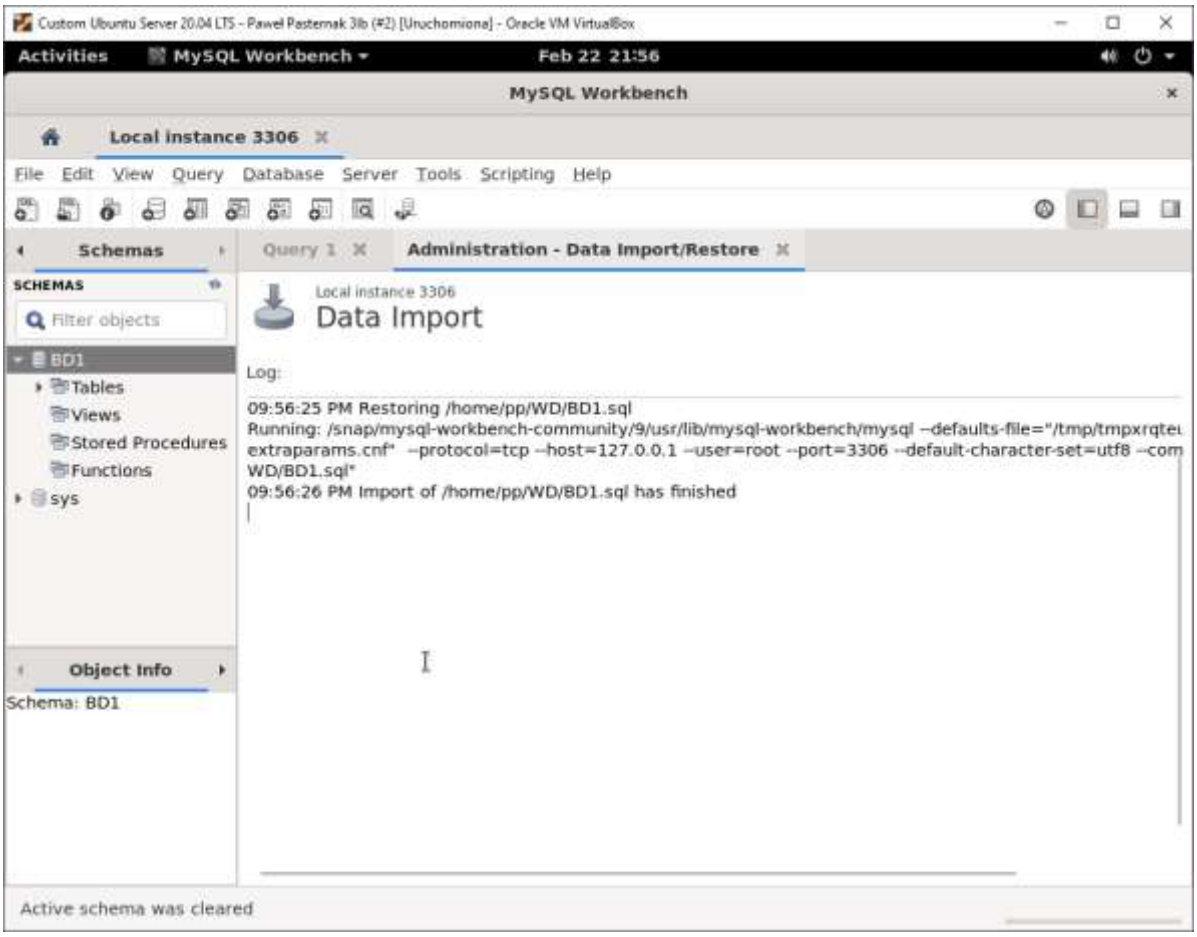


11. Importowanie bazy danych

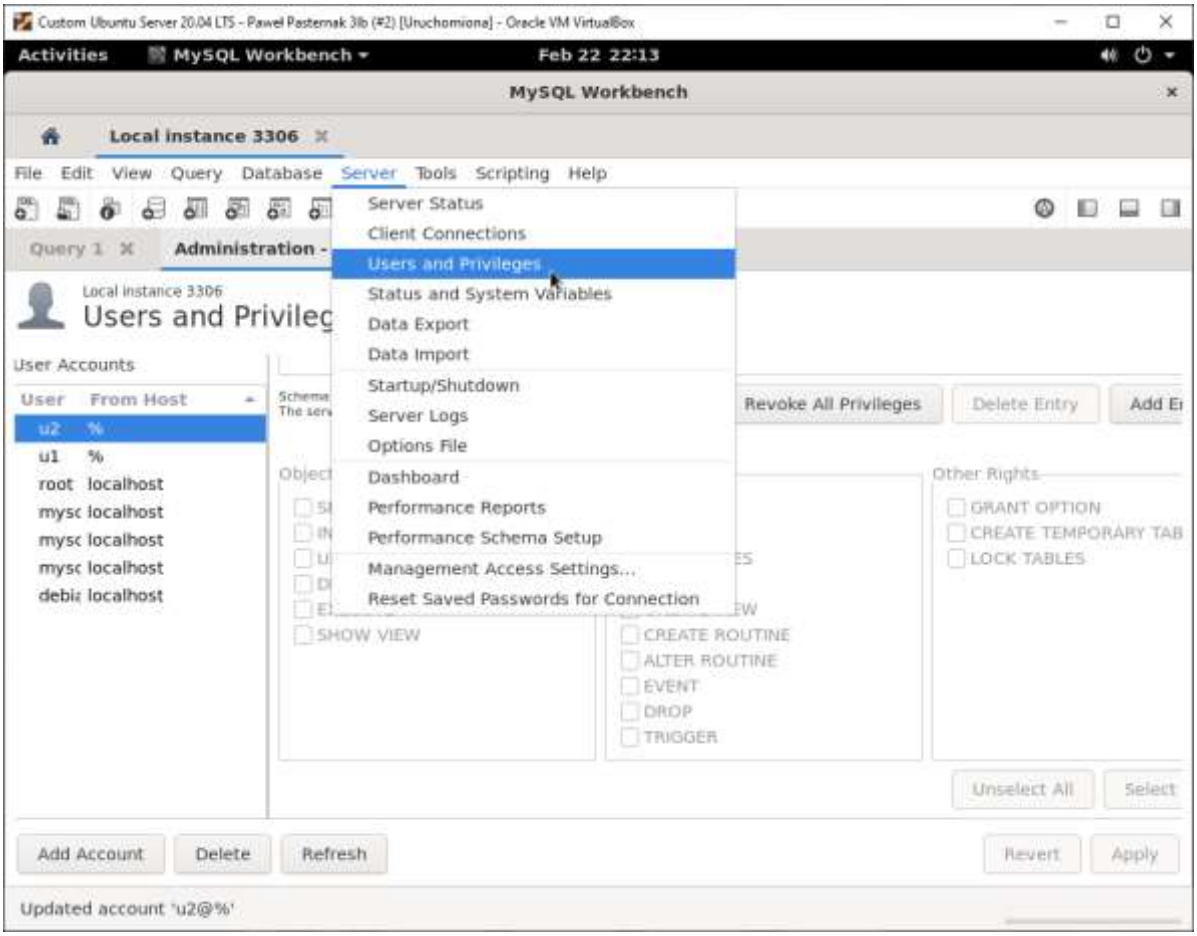




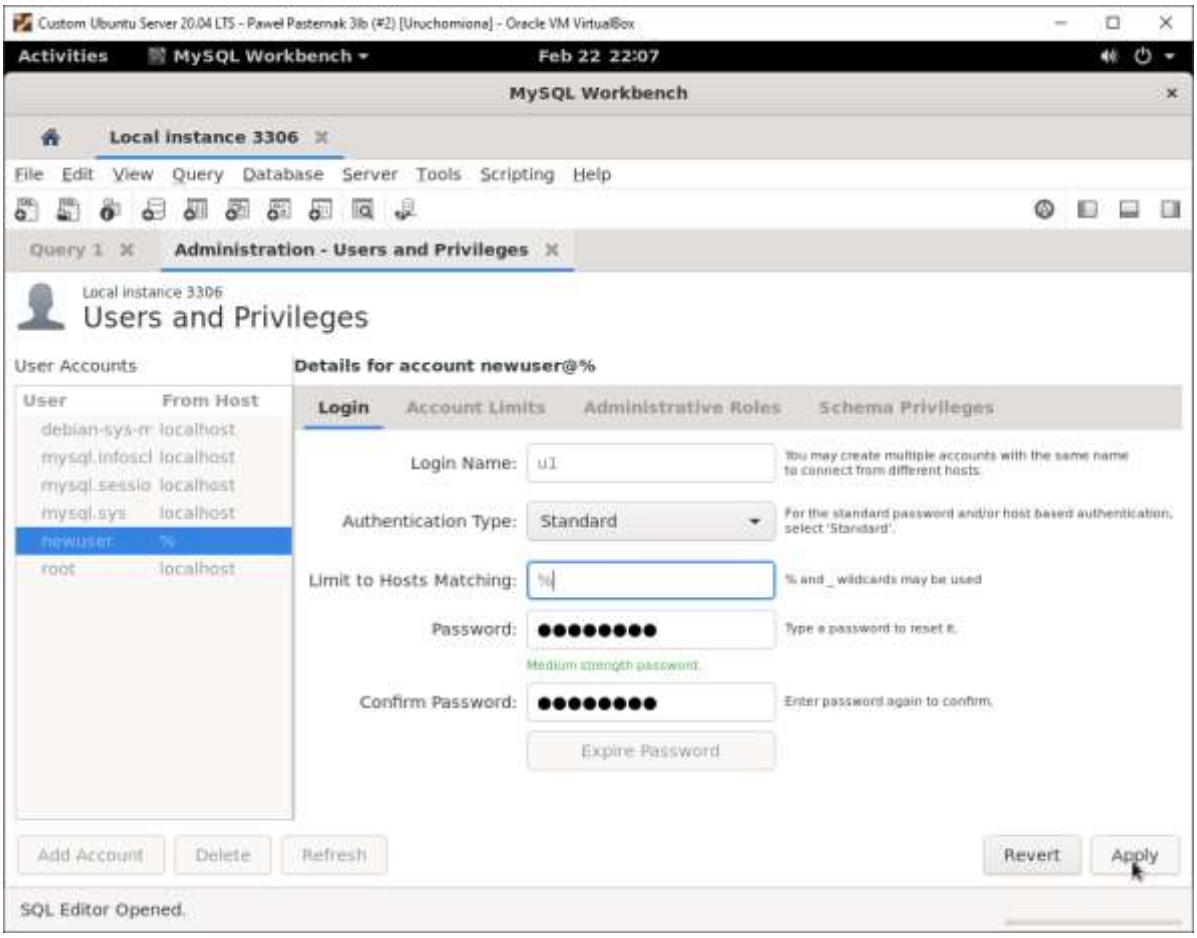

Custom Ubuntu Server 20.04 LTS - Paweł Pasternak 3Ib (#2) [Uruchomiona] - Oracle VM VirtualBox
Activities
MySQL Workbench
Feb 22 21:56
MySQL Workbench
Local instance 3306
File Edit View Query Database Server Tools Scripting Help
Query 1
Administration - Data Import/Restore
Local instance 3306
Data Import
Import from Self-Contained File
/home/pp/WD/BD1.sql
Select the SQL/dump file to import. Please note that the whole file will be imported.
Default Schema to be Imported To
Default Target Schema:
New...
The default schema to import the dump into.
NOTE: this is only used if the dump file doesn't contain its schema, otherwise it is ignored.
Select Database Objects to Import (only available for Project Folders)
Import Schema
Import Schema Objects
Dump Structure and Data
Select Views
Select Tables
Unselect All
Press [Start Import] to start...
Start Import
Active schema was cleared

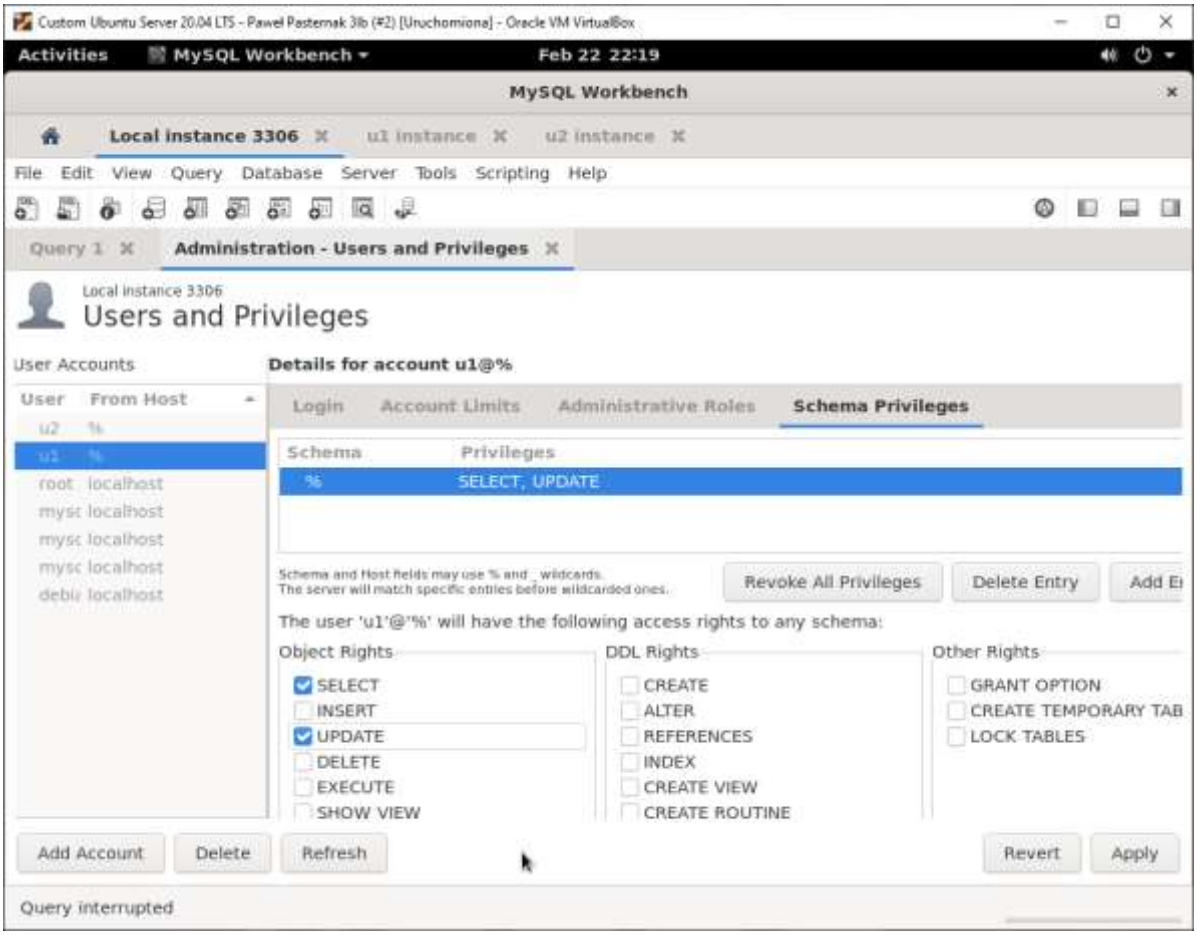

Custom Ubuntu Server 20.04 LTS - Paweł Pasternak 3Ib (#2) [Uruchomiona] - Oracle VM VirtualBox
Activities
MySQL Workbench
Feb 22 21:56
MySQL Workbench
Local instance 3306
File Edit View Query Database Server Tools Scripting Help
Schemas
SCHEMAS
Filter objects
BD1
Tables
Views
Stored Procedures
Functions
sys
Query 1
Administration - Data Import/Restore
Local instance 3306
Data Import
Log:
09:56:25 PM Restoring /home/pp/WD/BD1.sql
Running: /snap/mysql-workbench-community/9/usr/lib/mysql-workbench/mysql --defaults-file="/tmp/tmpxrqteu
extraparams.cnf" --protocol=tcp --host=127.0.0.1 --user=root --port=3306 --default-character-set=utf8 --com
WD/BD1.sql"
09:56:26 PM Import of /home/pp/WD/BD1.sql has finished
Object Info
Schema: BD1
Active schema was cleared

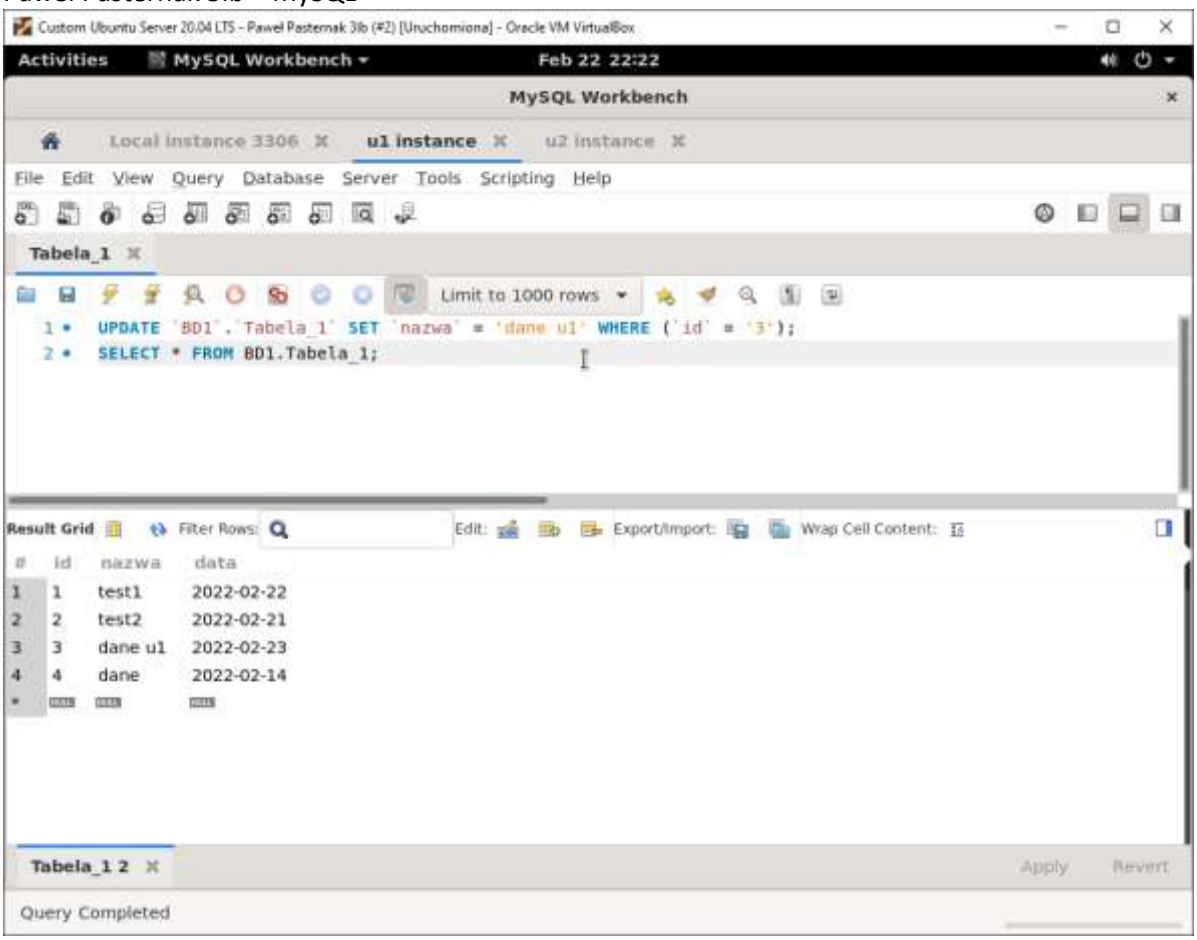
12. Dodawanie użytkowników i uprawnień dla nich

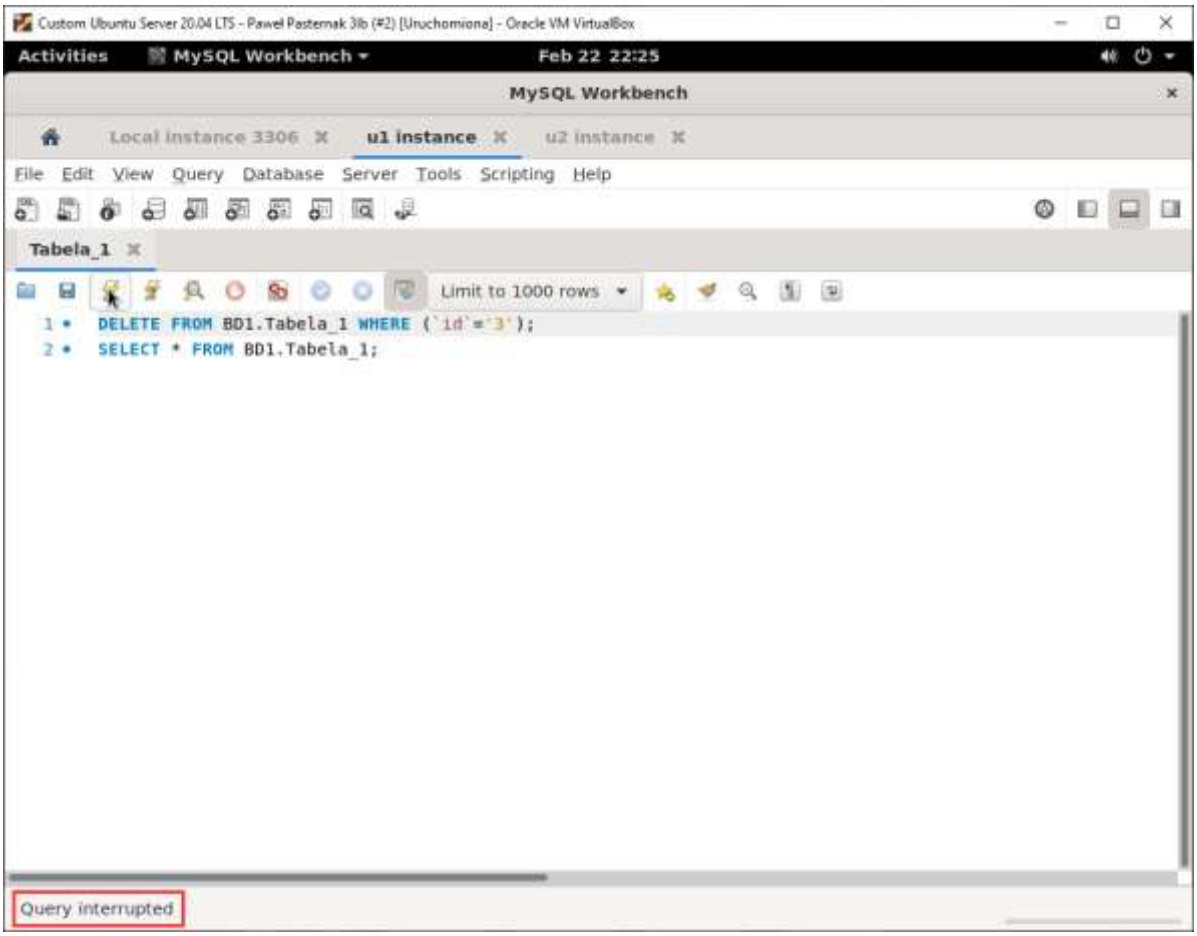


- U1

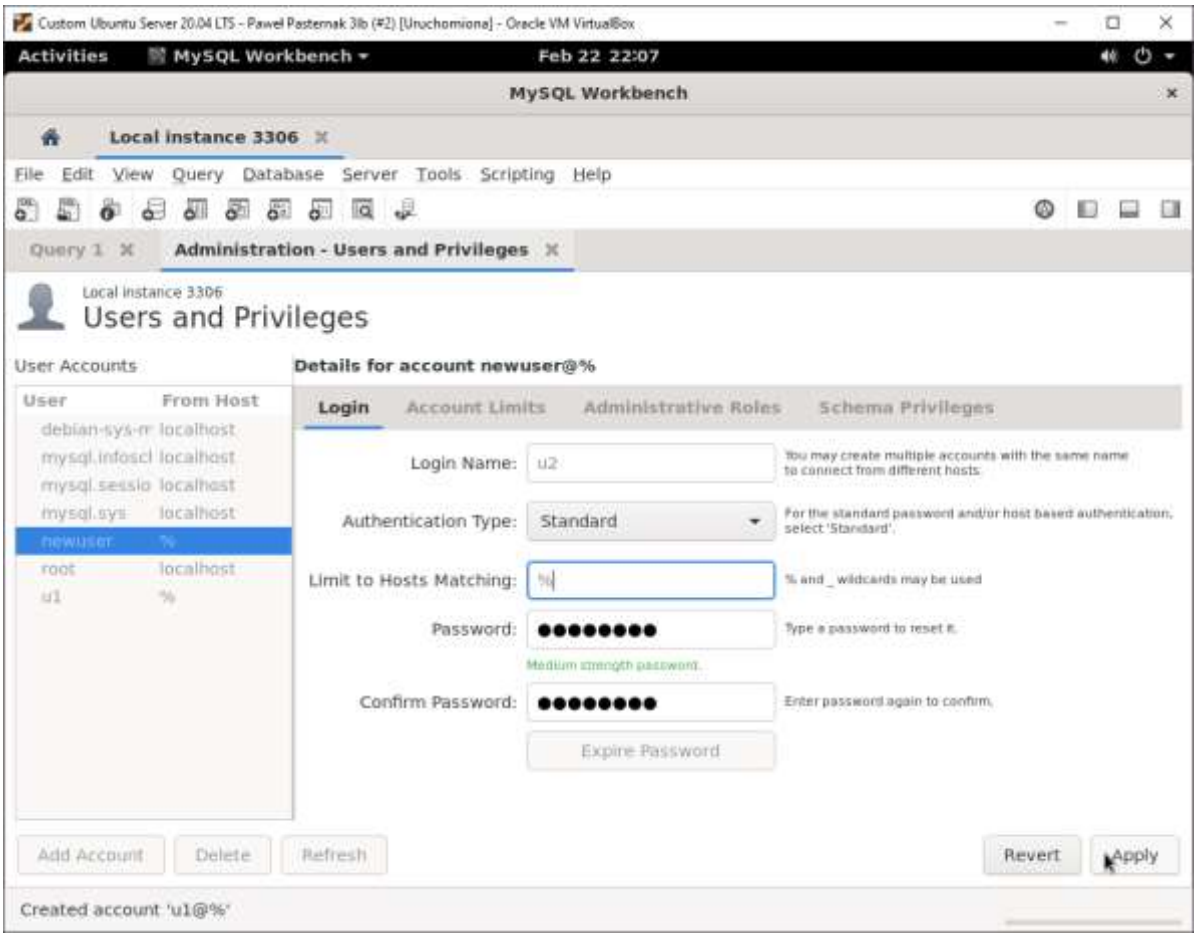

Custom Ubuntu Server 20.04 LTS - Paweł Pasternak 3Ib (#2) [Uruchomiona] - Oracle VM VirtualBox
Activities
MySQL Workbench
Feb 22 22:07
MySQL Workbench
Local instance 3306
File Edit View Query Database Server Tools Scripting Help
Query 1
Administration - Users and Privileges
Local instance 3306
Users and Privileges
User Accounts
User From Host
debian-sys-m localhost
mysql.infoscl localhost
mysql.sessio localhost
mysql.sys localhost
newuser %
root localhost
Details for account newuser@%
Login
Account Limits
Administrative Roles
Schema Privileges
Login Name: u1
You may create multiple accounts with the same name to connect from different hosts.
Authentication Type: Standard
For the standard password and/or host based authentication, select 'Standard'.
Limit to Hosts Matching: %
% and _ wildcards may be used
Password:
Type a password to reset it.
Medium strength password.
Confirm Password:
Enter password again to confirm.
Expire Password
Add Account
Delete
Refresh
Revert
Apply
SQL Editor Opened.

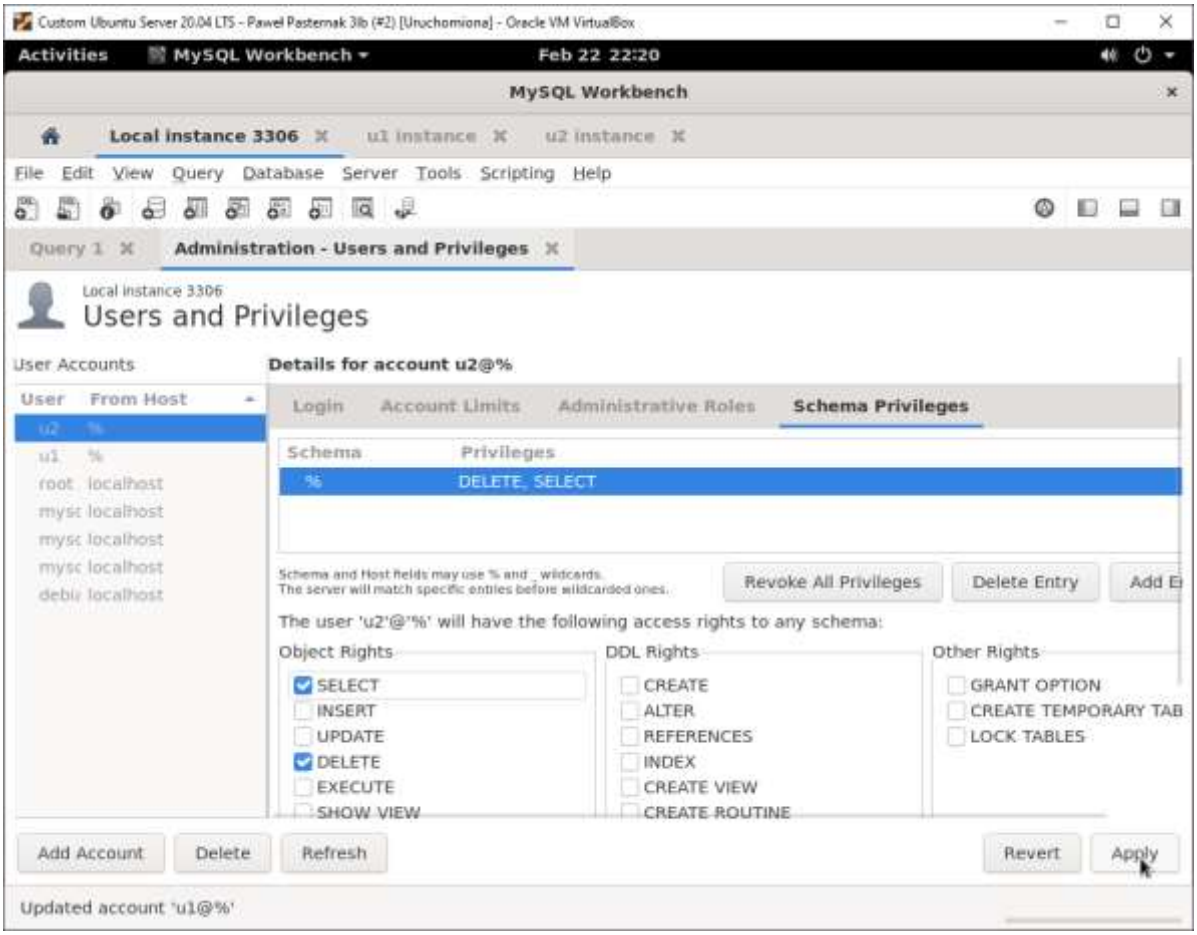

Custom Ubuntu Server 20.04 LTS - Paweł Pasternak 3Ib (#2) [Uruchomiona] - Oracle VM VirtualBox
Activities
MySQL Workbench
Feb 22 22:19
MySQL Workbench
Local instance 3306
u1 instance
u2 instance
File Edit View Query Database Server Tools Scripting Help
Query 1
Administration - Users and Privileges
Local instance 3306
Users and Privileges
User Accounts
User From Host
u2 %
u1 %
root localhost
Details for account u1@%
Login
Account Limits
Administrative Roles
Schema Privileges
Schema Privileges
% SELECT, UPDATE
Schema and Host fields may use % and _ wildcards.
The server will match specific entries before wildcarded ones.
Revoke All Privileges
Delete Entry
The user 'u1'@'%' will have the following access rights to any schema:
Object Rights
SELECT
INSERT
UPDATE
DELETE
EXECUTE
SHOW VIEW
DDL Rights
CREATE
ALTER
REFERENCES
INDEX
CREATE VIEW
CREATE ROUTINE
Other Rights
GRANT OPTION
LOCK TABLES
Add Account
Delete
Refresh
Revert
Apply
Query interrupted

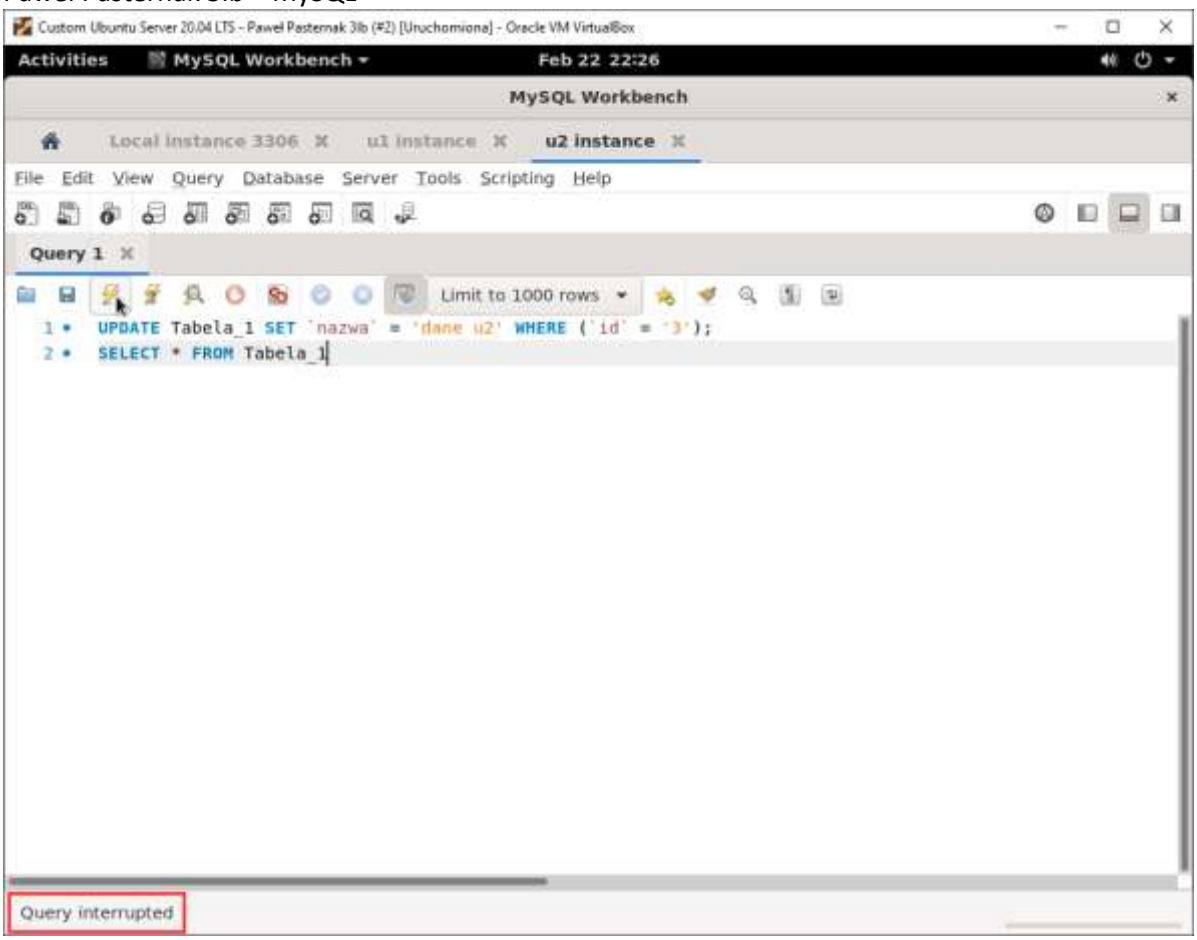

Custom Ubuntu Server 20.04 LTS - Paweł Pasternak 3Ib (#2) [Uruchomiona] - Oracle VM VirtualBox
Activities
MySQL Workbench
Feb 22 22:22
MySQL Workbench
Local instance 3306
u1 instance
u2 instance
File Edit View Query Database Server Tools Scripting Help
Tabela_1
Limit to 1000 rows
1 • UPDATE `BD1`.`Tabela_1` SET `nazwa` = 'dane u1' WHERE (`id` = '3');
2 • SELECT * FROM BD1.Tabela_1;
Result Grid
Filter Rows:
Edit:
Export/Import:
Wrap Cell Content:
id nazwa data
1 1 test1 2022-02-22
2 2 test2 2022-02-21
3 3 dane u1 2022-02-23
4 4 dane 2022-02-14
Tabela_1 2
Apply
Revert
Query Completed

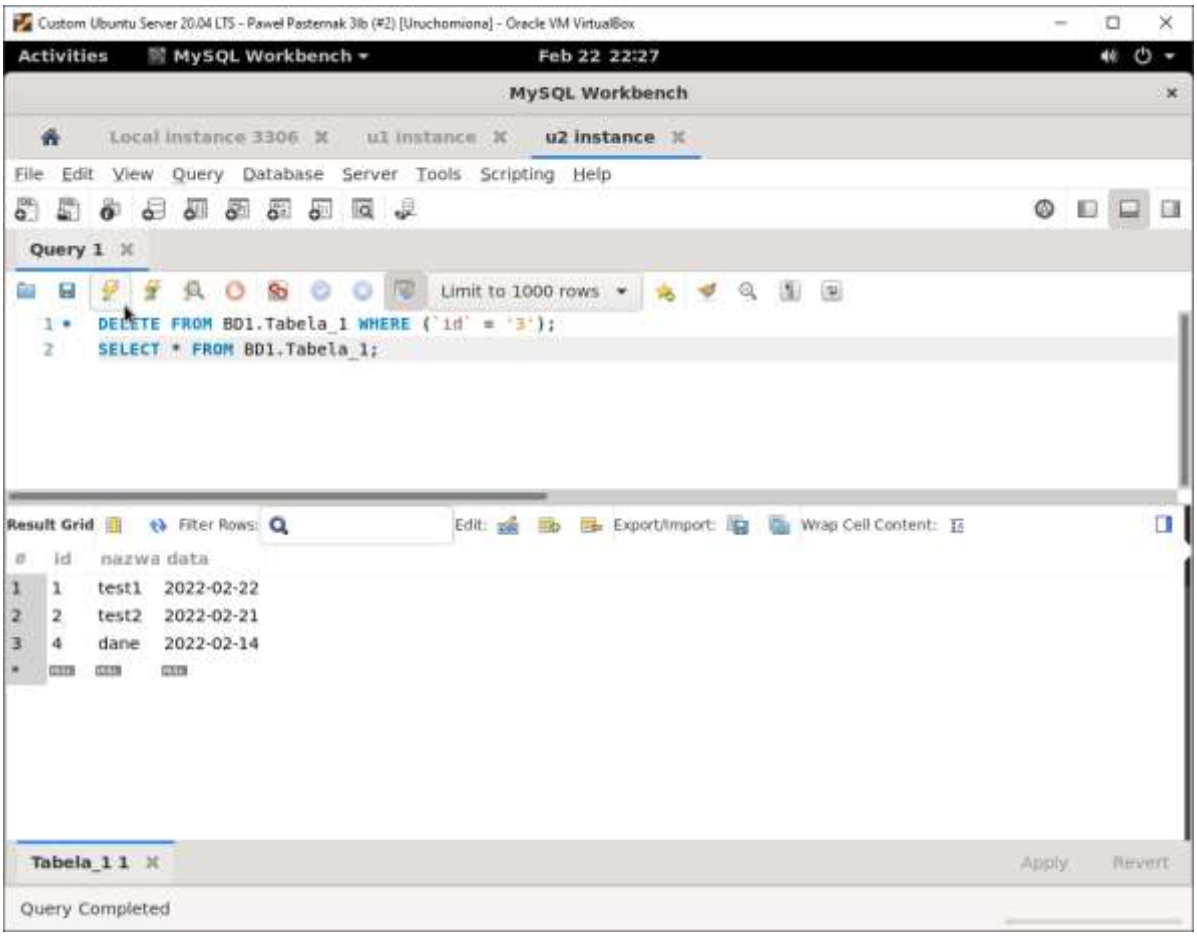

Custom Ubuntu Server 20.04 LTS - Paweł Pasternak 3Ib (#2) [Uruchomiona] - Oracle VM VirtualBox
Activities
MySQL Workbench
Feb 22 22:25
MySQL Workbench
Local instance 3306
u1 instance
u2 instance
File Edit View Query Database Server Tools Scripting Help
Tabela_1
Limit to 1000 rows
1 • DELETE FROM BD1.Tabela_1 WHERE (`id`='3');
2 • SELECT * FROM BD1.Tabela_1;
Query interrupted

- U2


Custom Ubuntu Server 20.04 LTS - Paweł Pasternak 3Ib (#2) [Uruchomiona] - Oracle VM VirtualBox
Activities
MySQL Workbench
Feb 22 22:07
MySQL Workbench
Local instance 3306
File Edit View Query Database Server Tools Scripting Help
Query 1
Administration - Users and Privileges
Local instance 3306
Users and Privileges
User Accounts
User From Host
debian-sys-m localhost
mysql.infoscl localhost
mysql.sessio localhost
mysql.sys localhost
newuser %
root localhost
u1 %
Details for account newuser@%
Login
Account Limits
Administrative Roles
Schema Privileges
Login Name: u2
You may create multiple accounts with the same name to connect from different hosts.
Authentication Type: Standard
For the standard password and/or host based authentication, select 'Standard'.
Limit to Hosts Matching: %
% and _ wildcards may be used
Password:
Type a password to reset it.
Medium strength password.
Confirm Password:
Enter password again to confirm.
Expire Password
Add Account
Delete
Refresh
Revert
Apply
Created account 'u1@%'


Custom Ubuntu Server 20.04 LTS - Paweł Pasternak 3Ib (#2) [Uruchomiona] - Oracle VM VirtualBox
Activities
MySQL Workbench
Feb 22 22:20
MySQL Workbench
Local instance 3306
u1 instance
u2 instance
File Edit View Query Database Server Tools Scripting Help
Query 1
Administration - Users and Privileges
Local instance 3306
Users and Privileges
User Accounts
User From Host
u2 %
u1 %
root localhost
Details for account u2@%
Login
Account Limits
Administrative Roles
Schema Privileges
Schema Privileges
% DELETE, SELECT
Schema and Host fields may use % and _ wildcards.
The server will match specific entries before wildcarded ones.
Revoke All Privileges
Delete Entry
The user 'u2'@'%' will have the following access rights to any schema:
Object Rights
SELECT
INSERT
UPDATE
DELETE
EXECUTE
SHOW VIEW
DDL Rights
CREATE
ALTER
REFERENCES
INDEX
CREATE VIEW
CREATE ROUTINE
Other Rights
GRANT OPTION
LOCK TABLES
Add Account
Delete
Refresh
Revert
Apply
Updated account 'u1@%'


Custom Ubuntu Server 20.04 LTS - Paweł Pasternak 3Ib (#2) [Uruchomiona] - Oracle VM VirtualBox
Activities
MySQL Workbench
Feb 22 22:26
MySQL Workbench
Local instance 3306
u1 instance
u2 instance
File Edit View Query Database Server Tools Scripting Help
Query 1
Limit to 1000 rows
1 • UPDATE Tabela_1 SET `nazwa` = 'dane u2' WHERE (`id` = '3');
2 • SELECT * FROM Tabela_1
Query interrupted


Custom Ubuntu Server 20.04 LTS - Paweł Pasternak 3Ib (#2) [Uruchomiona] - Oracle VM VirtualBox
Activities
MySQL Workbench
Feb 22 22:27
MySQL Workbench
Local instance 3306
u1 instance
u2 instance
File Edit View Query Database Server Tools Scripting Help
Query 1
Limit to 1000 rows
1 • DELETE FROM BD1.Tabela_1 WHERE (`id` = '3');
2 SELECT * FROM BD1.Tabela_1;
Result Grid
Filter Rows:
Edit:
Export/Import:
Wrap Cell Content:
id nazwa data
1 1 test1 2022-02-22
2 2 test2 2022-02-21
3 4 dane 2022-02-14
Tabela_1 1
Apply
Revert
Query Completed