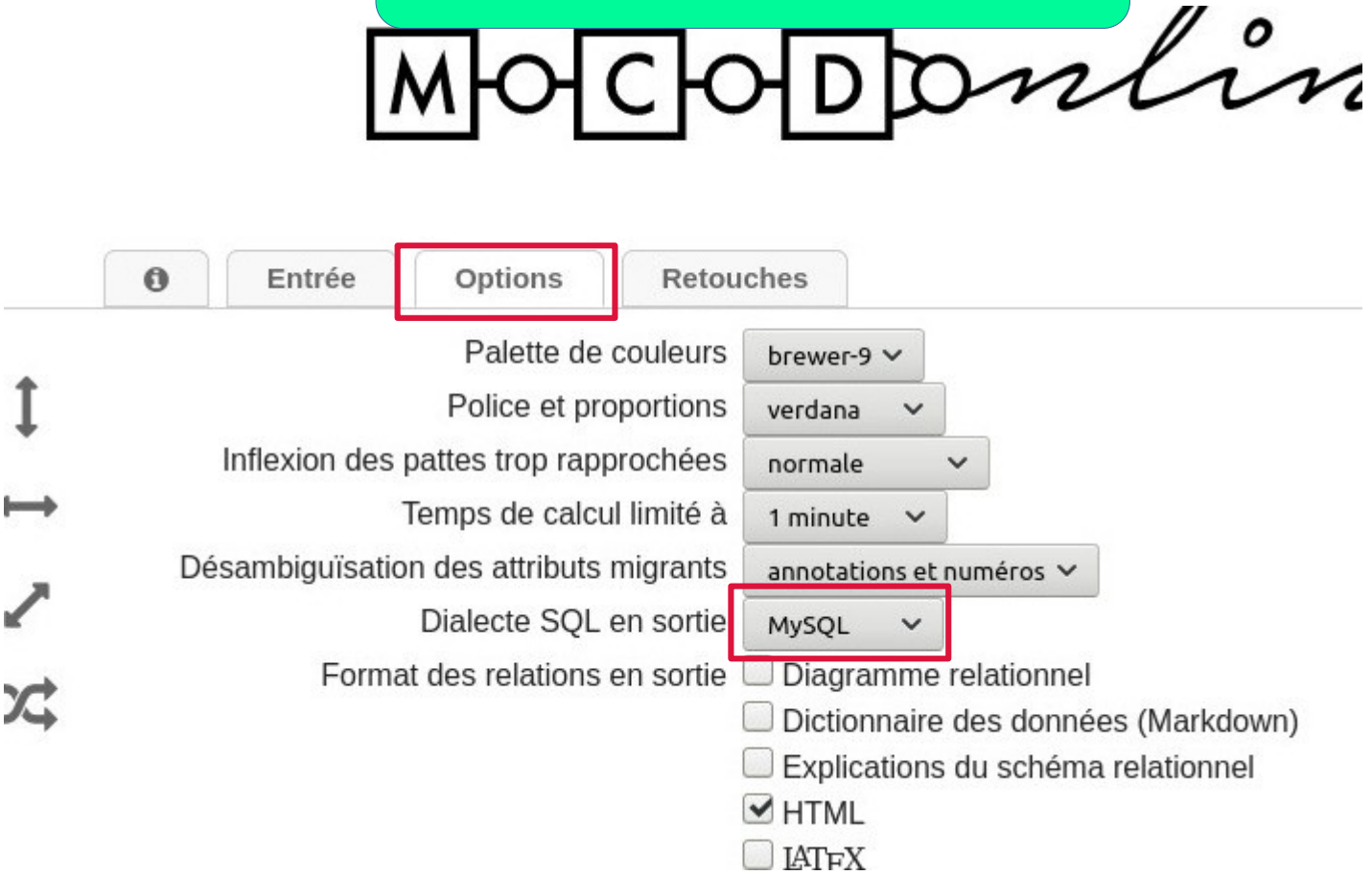
De MoCoDo au diagramme de Base de données relationnelles avec Mysql

Dans l'onglet "Options"
sélectionnez "MySQL"



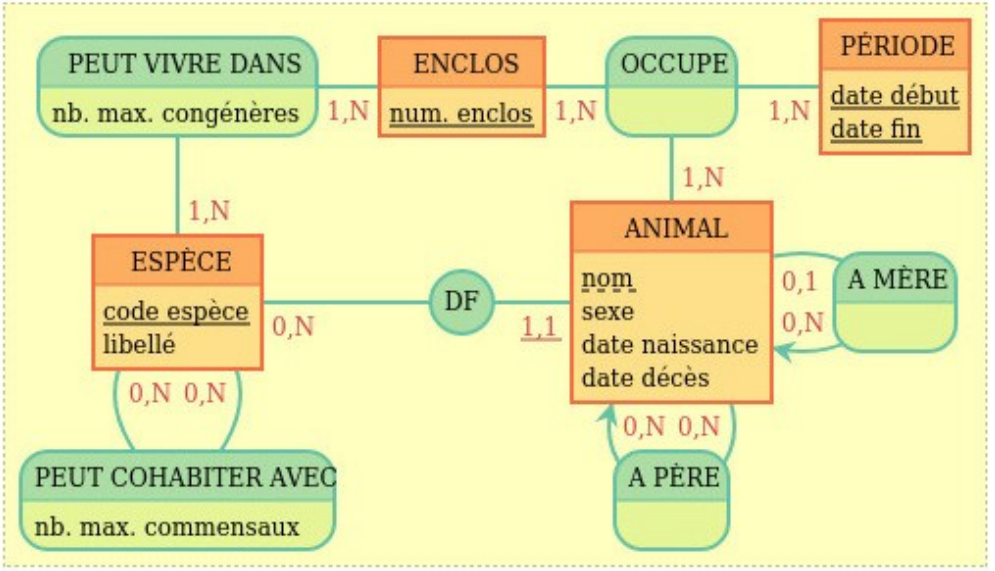
Désambiguïsation des attributs migrants : annotations et numéros

Dialecte SQL en sortie : MySQL

Format des relations en sortie :
- [ ] Diagramme relationnel
- [ ] Dictionnaire des données (Ma
- [ ] Explications du schéma relati
- [x] HTML
- [ ] LaTeX
- [ ] Markdown
- [ ] Texte brut

Cliquez sur l'icône de mise à jour

Diagramme | Relations



PEUT VIVRE DANS (code_espèce, num_enclos, nb_max_congénères)

Diagramme | Relations

Dans l'onglet "Relations"
copier le code SQL
dans un fichier

/tmp/animaux.sql

HTML

```
<html>
<head>
<meta charset='utf-8'>
<style>
  #mld .relation { font-variant: small-caps
  #mld .primary { text-decoration: underlin
```

MySQL

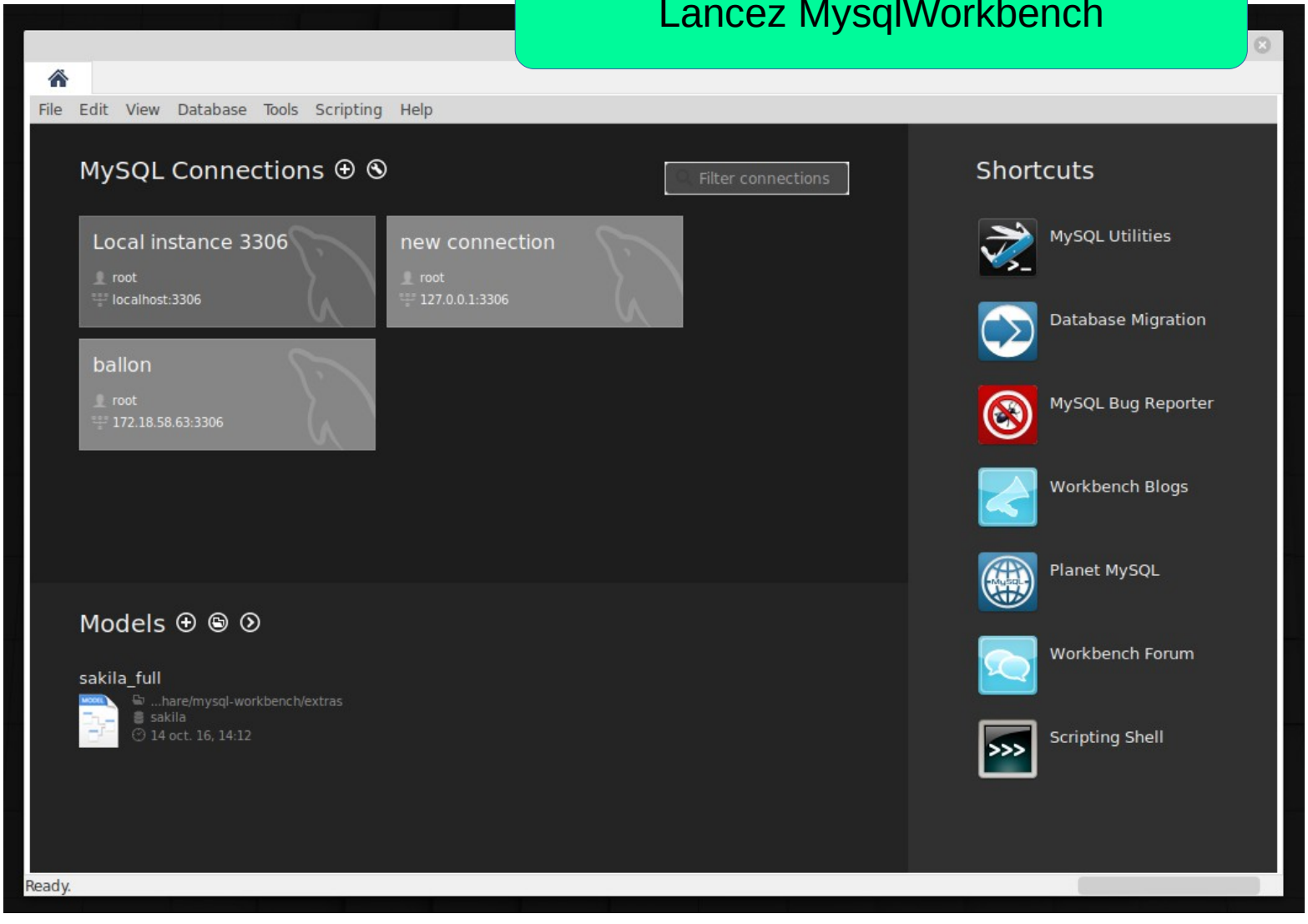
```
CREATE DATABASE IF NOT EXISTS `ANIMAUX` DEFAULT CHARACTER SET utf8 COLLATE utf8_general_ci;
USE `ANIMAUX`;

CREATE TABLE `PEUT_VIVRE_DANS` (
  `code_espèce` VARCHAR(42),
  `num_enclos` VARCHAR(42),
  `nb_max_congénères` VARCHAR(42),
  PRIMARY KEY (`code_espèce`, `num_enclos`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;

/*
CREATE TABLE `ENCLOS` (
  `num_enclos` VARCHAR(42),
  PRIMARY KEY (`num_enclos`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
*/

CREATE TABLE `OCCUPE` (
  `code_espèce` VARCHAR(42),
  `nom` VARCHAR(42),
  `date_début` VARCHAR(42),
  `date_fin` VARCHAR(42),
  `num_enclos` VARCHAR(42),
  PRIMARY KEY (`code_espèce`, `nom`, `date_début`, `date_fin`, `num_enclos`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;

CREATE TABLE `PÉRIODE` (
  `date_début` VARCHAR(42),
  `date_fin` VARCHAR(42),
  PRIMARY KEY (`date_début`, `date_fin`)
```

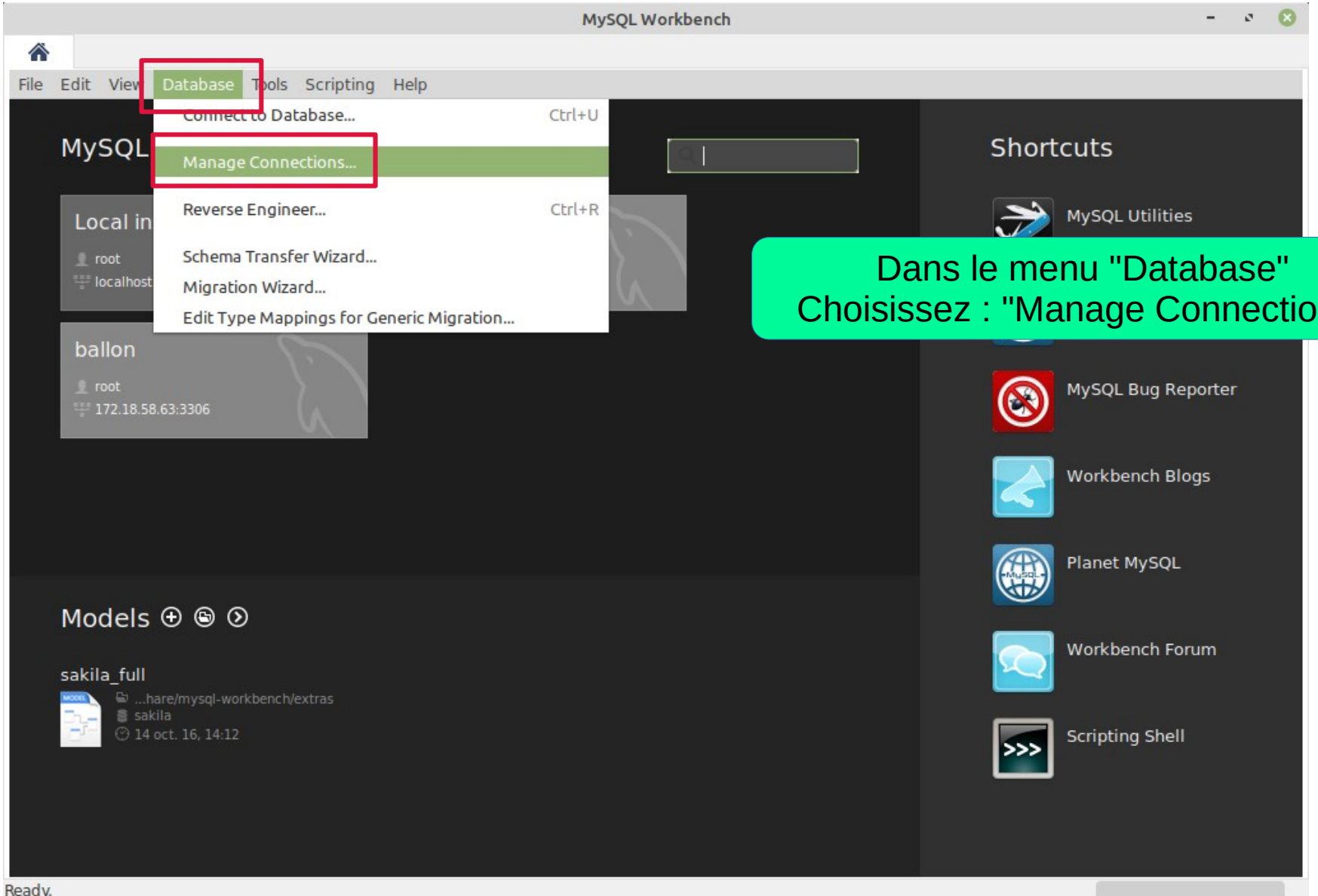
Dans un terminal :
+ placez vous dans le répertoire où vous avez sauvegardé le fichier .sql
+ tapez la commande mysql en adaptant les paramètres à votre configuration

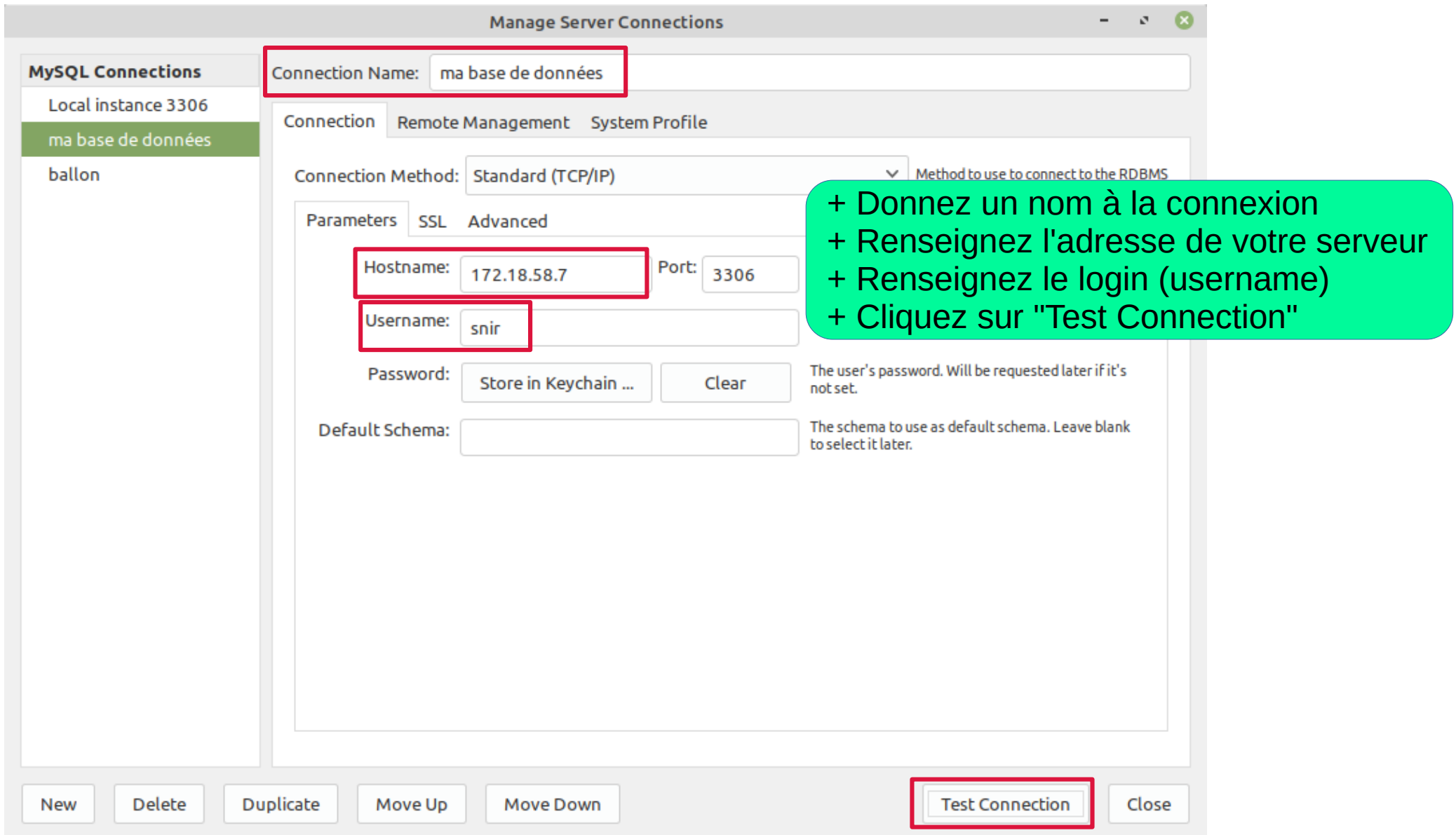
```
b108tu4prof:/tmp$ cd /tmp
b108tu4prof:/tmp$ mysql -h 172.18.58.7 -u snir -p <animaux.sql
```

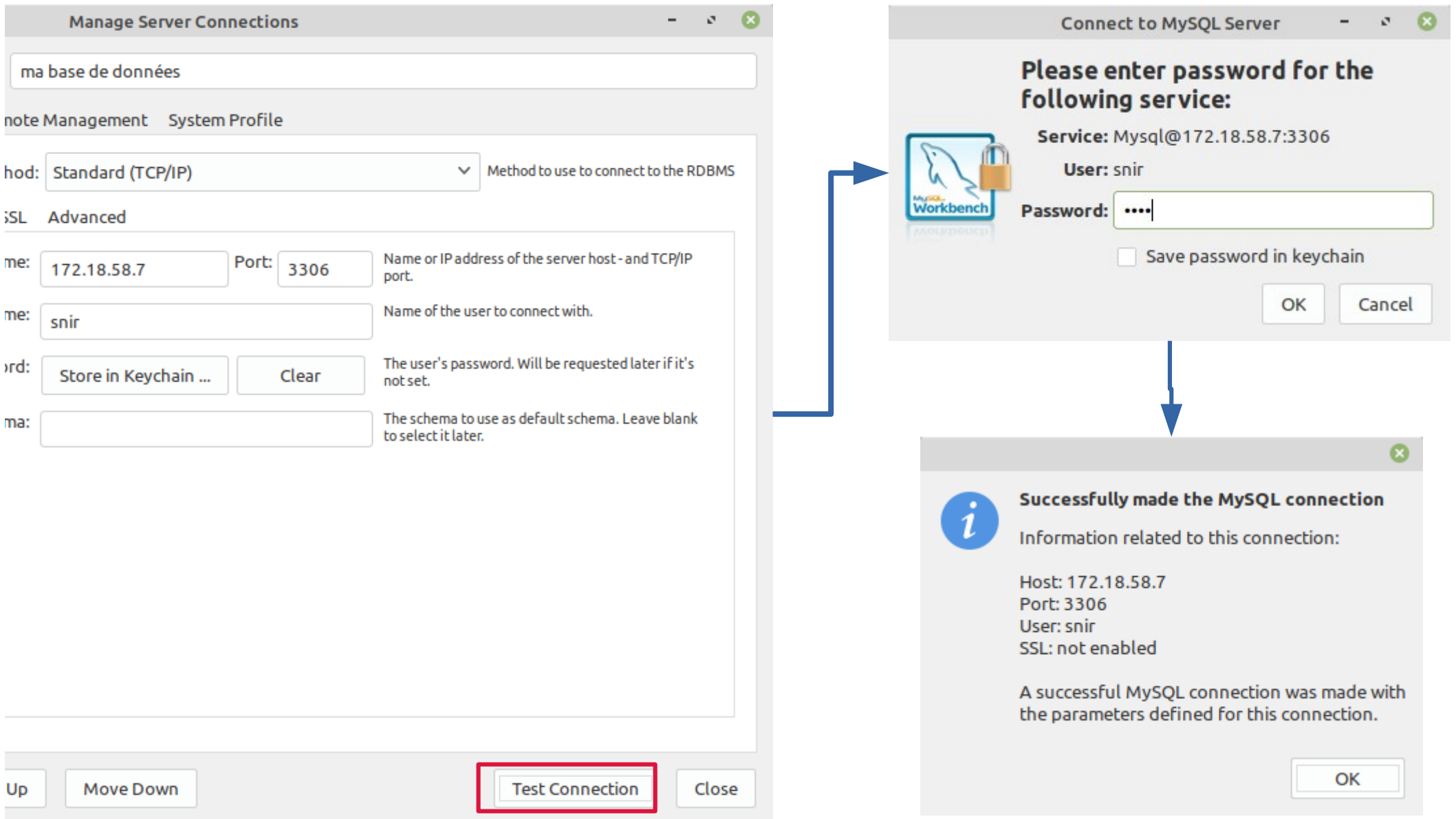
Adresse du serveur mysql : 172.18.58.7
Login du serveur mysql : snir
Nom du fichier sql à injecter : animaux.sql

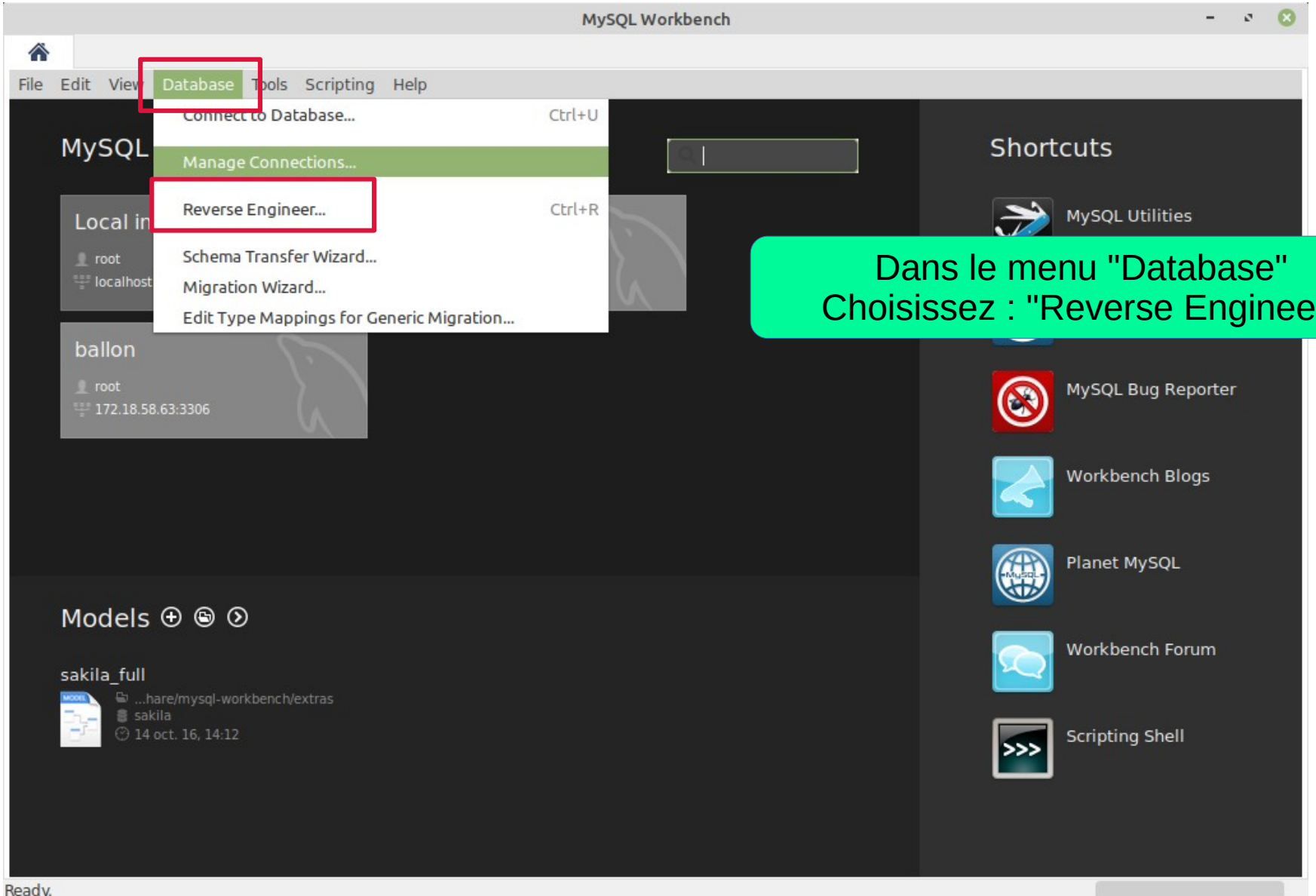
Lancez MysqlWorkbench




MySQL Workbench
File
Edit
View
Database
Tools
Scripting
Help
Connect to Database... Ctrl+U
Manage Connections...
Reverse Engineer... Ctrl+R
Schema Transfer Wizard...
Migration Wizard...
Edit Type Mappings for Generic Migration...
MySQL
Local in
root
localhost
ballon
root
172.18.58.63:3306
Models
sakila_full
...hare/mysql-workbench/extras
sakila
14 oct. 16, 14:12
Shortcuts
MySQL Utilities
MySQL Bug Reporter
Workbench Blogs
Planet MySQL
Workbench Forum
Scripting Shell
Dans le menu "Database"
Choisissez : "Manage Connections"
Ready.


Manage Server Connections
MySQL Connections
Local instance 3306
ma base de données
ballon
Connection Name: ma base de données
Connection
Remote Management
System Profile
Connection Method: Standard (TCP/IP)
Method to use to connect to the RDBMS
Parameters
SSL
Advanced
Hostname: 172.18.58.7
Port: 3306
Username: snir
Password:
Store in Keychain ...
Clear
The user's password. Will be requested later if it's not set.
Default Schema:
The schema to use as default schema. Leave blank to select it later.
+ Donnez un nom à la connexion
+ Renseignez l'adresse de votre serveur
+ Renseignez le login (username)
+ Cliquez sur "Test Connection"
New
Delete
Duplicate
Move Up
Move Down
Test Connection
Close


Manage Server Connections
ma base de données
note Management
System Profile
hod:
Standard (TCP/IP)
Method to use to connect to the RDBMS
SSL
Advanced
me:
172.18.58.7
Port:
3306
Name or IP address of the server host - and TCP/IP port.
me:
snir
Name of the user to connect with.
ord:
Store in Keychain ...
Clear
The user's password. Will be requested later if it's not set.
ma:
The schema to use as default schema. Leave blank to select it later.
Up
Move Down
Test Connection
Close
Connect to MySQL Server
Please enter password for the following service:
Service: Mysql@172.18.58.7:3306
User: snir
Password:
Save password in keychain
OK
Cancel
Successfully made the MySQL connection
Information related to this connection:
Host: 172.18.58.7
Port: 3306
User: snir
SSL: not enabled
A successful MySQL connection was made with the parameters defined for this connection.
OK


MySQL Workbench
File Edit View Database Tools Scripting Help
Connect to Database... Ctrl+U
Manage Connections...
Reverse Engineer... Ctrl+R
Schema Transfer Wizard...
Migration Wizard...
Edit Type Mappings for Generic Migration...
MySQL
Local in
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localhost
ballon
root
172.18.58.63:3306
Models
sakila_full
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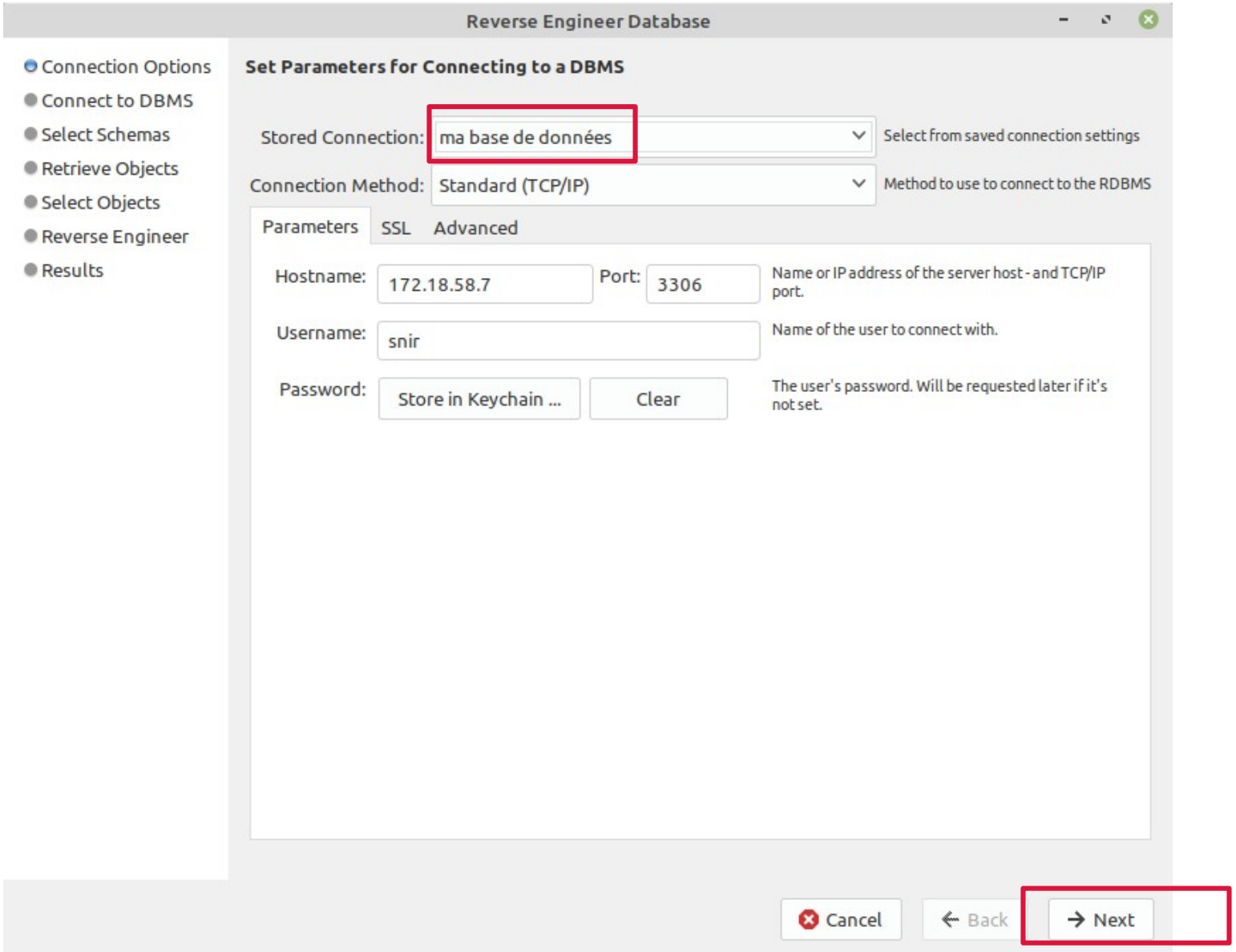
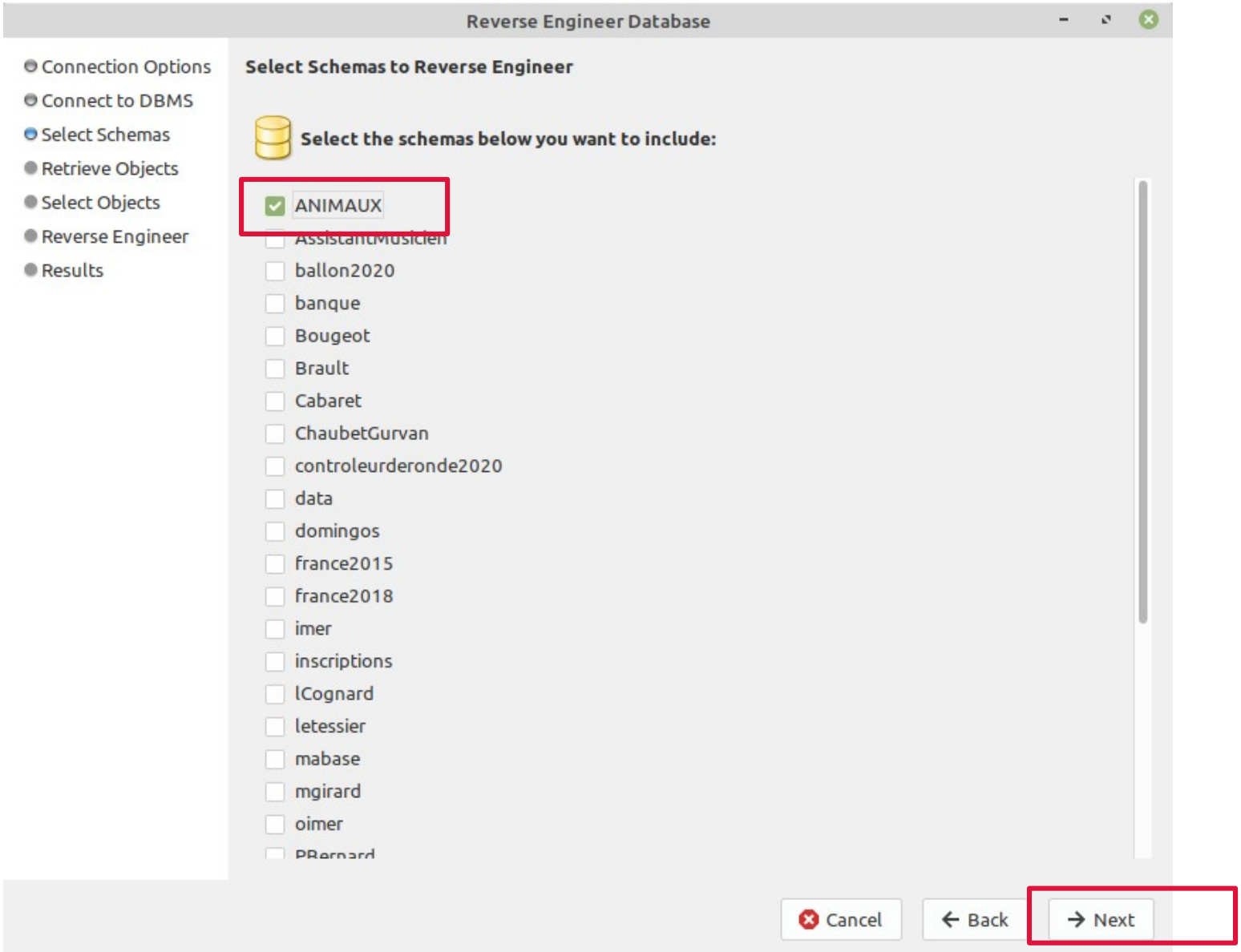
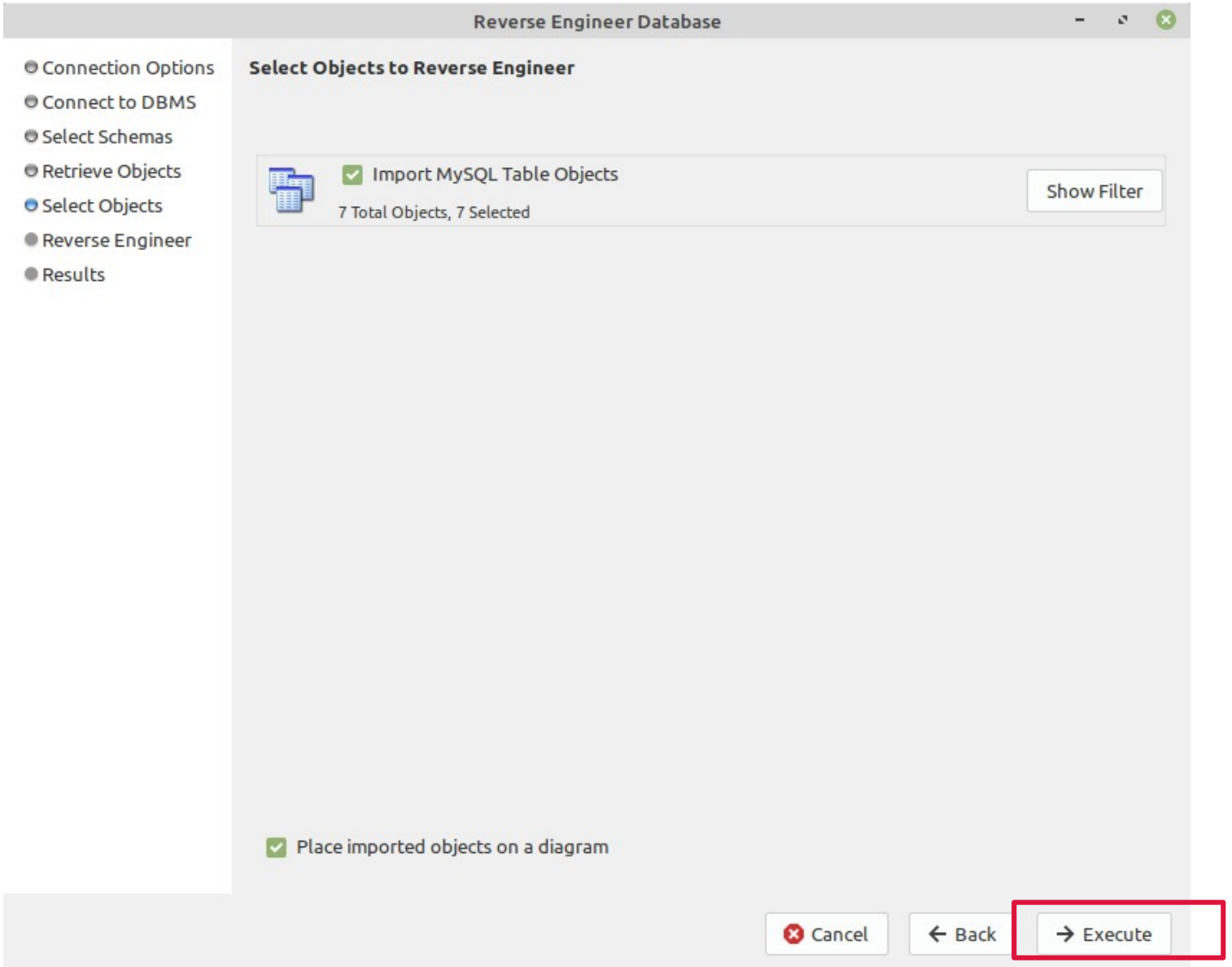
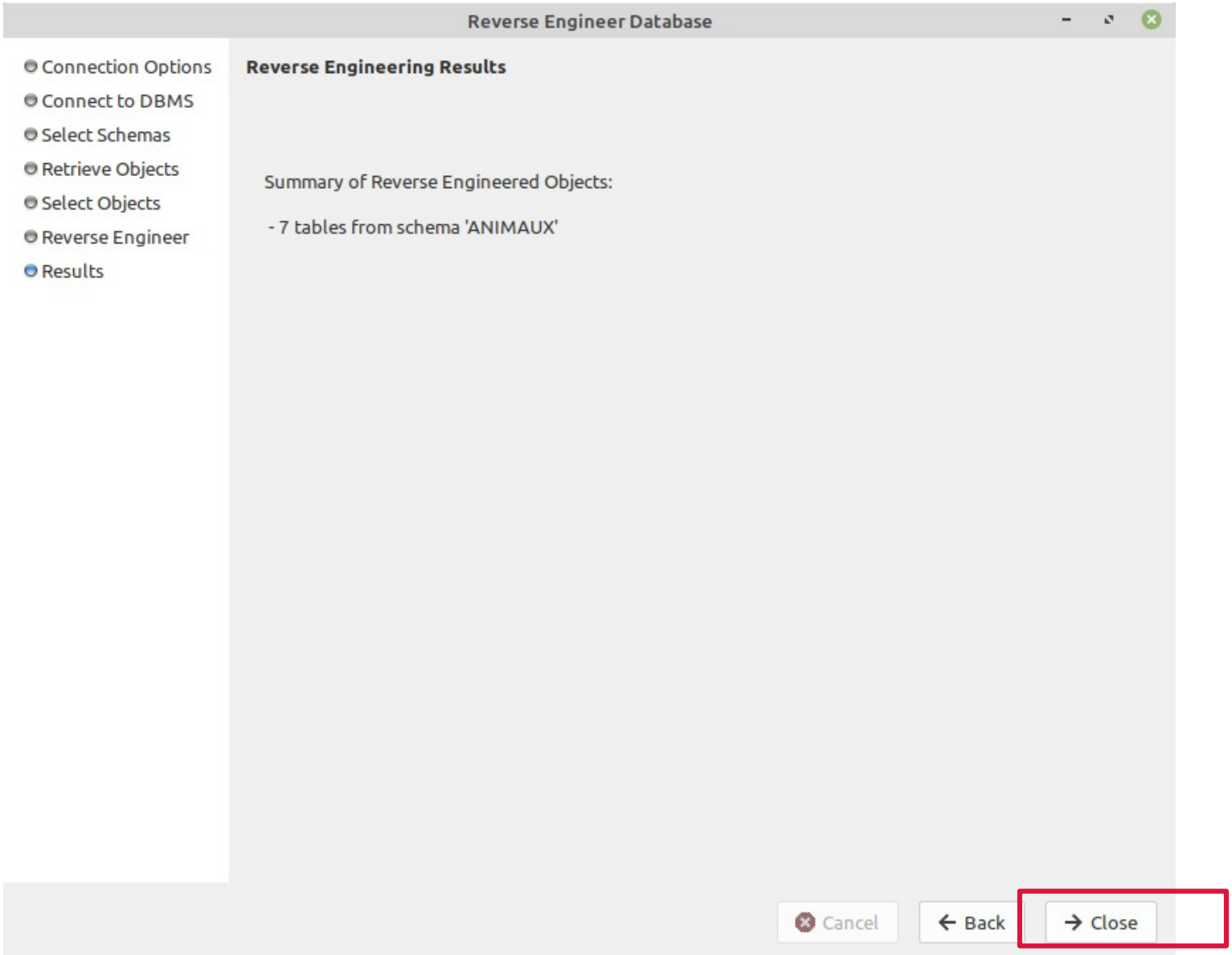
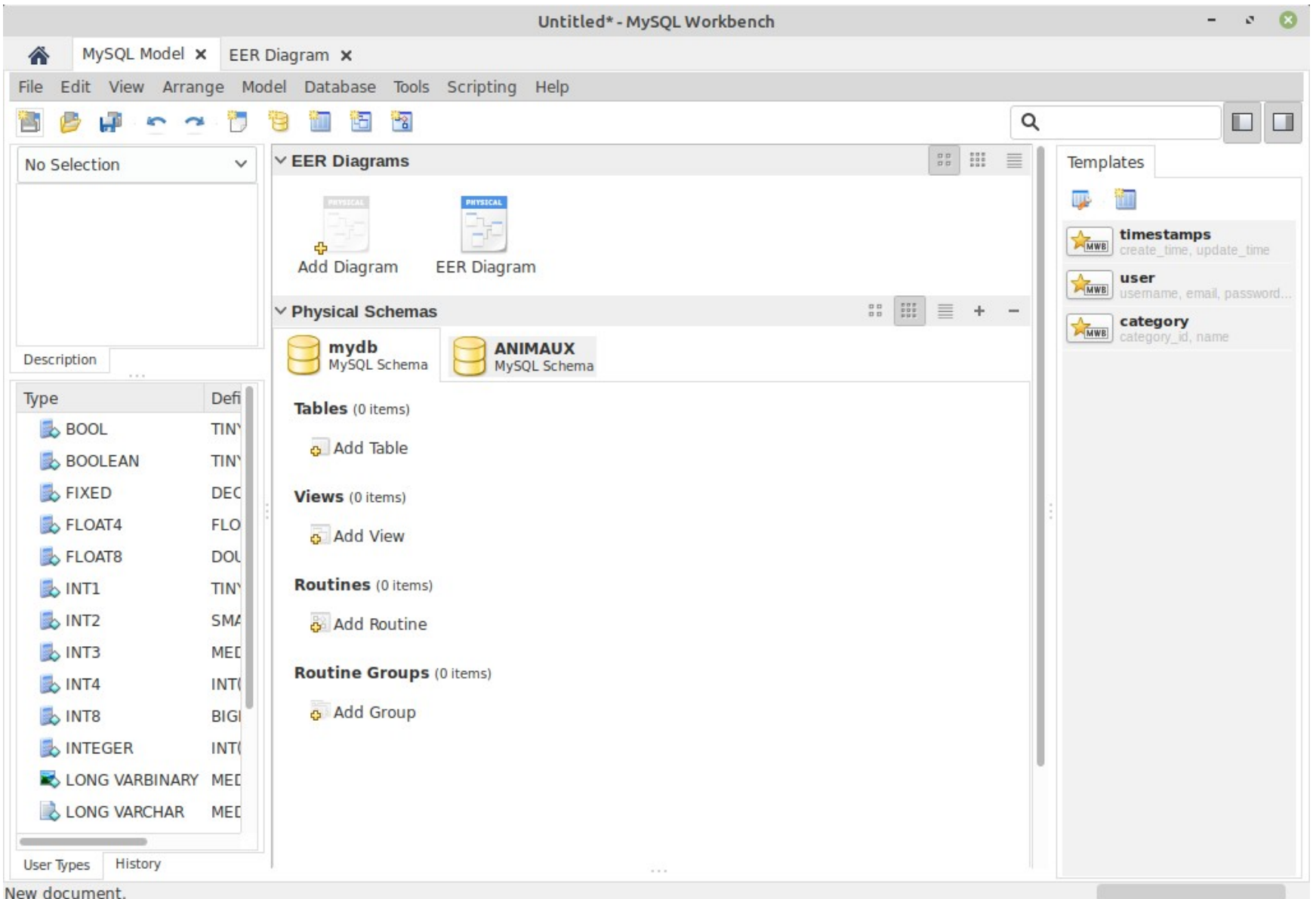
sakila
14 oct. 16, 14:12
Shortcuts
MySQL Utilities
MySQL Bug Reporter
Workbench Blogs
Planet MySQL
Workbench Forum
Scripting Shell
Dans le menu "Database"
Choisissez : "Reverse Engineer"
Ready.

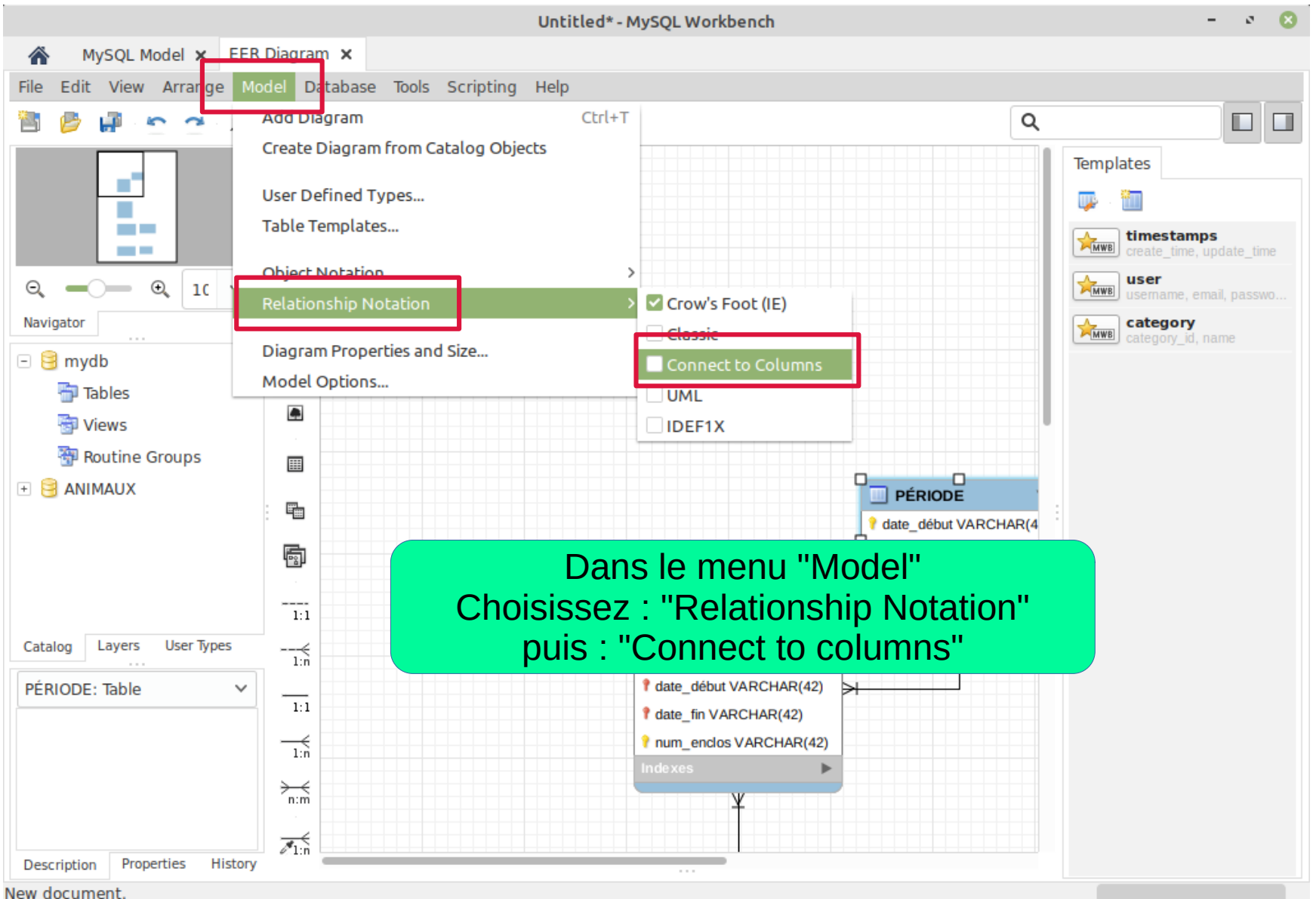

Reverse Engineer Database
Connection Options
Connect to DBMS
Select Schemas
Retrieve Objects
Select Objects
Reverse Engineer
Results
Set Parameters for Connecting to a DBMS
Stored Connection:
ma base de données
Select from saved connection settings
Connection Method:
Standard (TCP/IP)
Method to use to connect to the RDBMS
Parameters
SSL
Advanced
Hostname:
172.18.58.7
Port:
3306
Name or IP address of the server host - and TCP/IP port.
Username:
snir
Name of the user to connect with.
Password:
Store in Keychain ...
Clear
The user's password. Will be requested later if it's not set.
Cancel
Back
Next

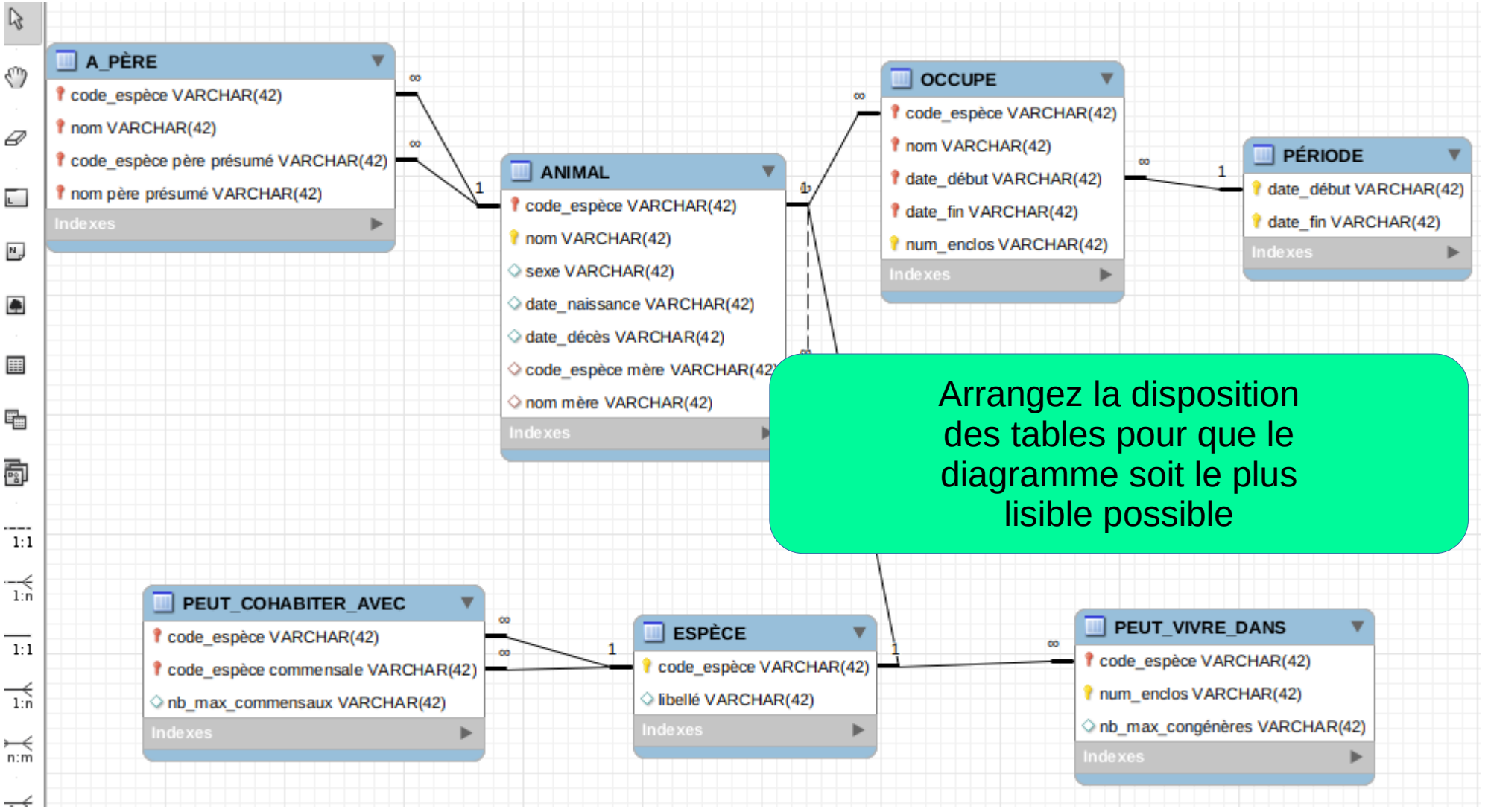

Reverse Engineer Database
Connection Options
Connect to DBMS
Select Schemas
Retrieve Objects
Select Objects
Reverse Engineer
Results
Select Schemas to Reverse Engineer
Select the schemas below you want to include:
ANIMAUX
AssistantMusicien
ballon2020
banque
Bougeot
Brault
Cabaret
ChaubetGurvan
controleurderonde2020
data
domingos
france2015
france2018
imer
inscriptions
lCognard
letessier
mabase
mgirard
oimer
PBernard
Cancel
Back
Next

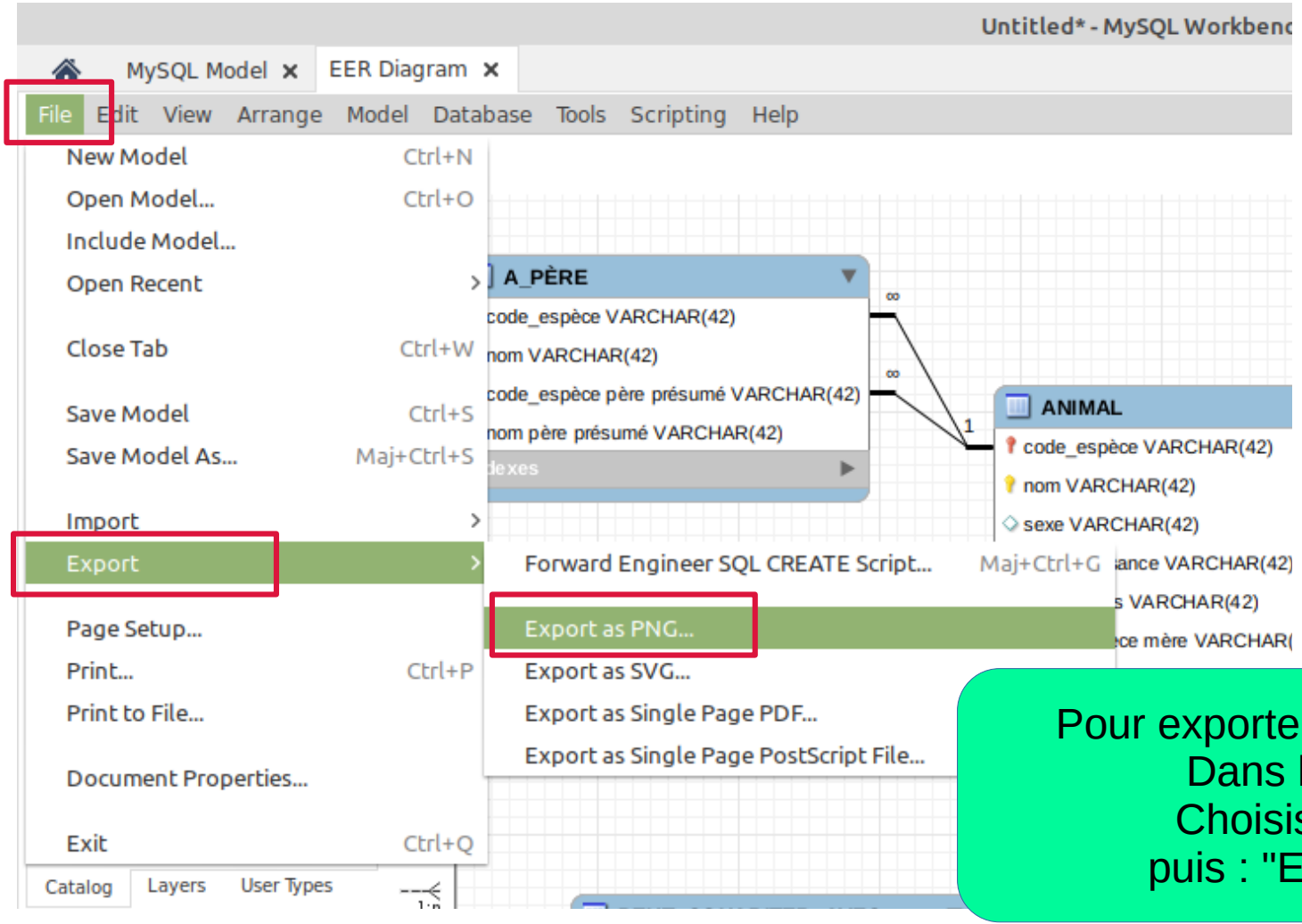

Reverse Engineer Database
Connection Options
Connect to DBMS
Select Schemas
Retrieve Objects
Select Objects
Reverse Engineer
Results
Select Objects to Reverse Engineer
Import MySQL Table Objects
7 Total Objects, 7 Selected
Show Filter
Place imported objects on a diagram
Cancel
Back
Execute


Reverse Engineer Database
Connection Options
Connect to DBMS
Select Schemas
Retrieve Objects
Select Objects
Reverse Engineer
Results
Reverse Engineering Results
Summary of Reverse Engineered Objects:
- 7 tables from schema 'ANIMAUX'
Cancel
Back
Close


Untitled* - MySQL Workbench
MySQL Model
EER Diagram
File Edit View Arrange Model Database Tools Scripting Help
No Selection
Description
Type
BOOL
BOOLEAN
FIXED
FLOAT4
FLOAT8
INT1
INT2
INT3
INT4
INT8
INTEGER
LONG VARBINARY
LONG VARCHAR
User Types
History
EER Diagrams
Add Diagram
EER Diagram
Physical Schemas
mydb
MySQL Schema
ANIMAUX
MySQL Schema
Tables (0 items)
Add Table
Views (0 items)
Add View
Routines (0 items)
Add Routine
Routine Groups (0 items)
Add Group
Templates
timestamps
create_time, update_time
user
username, email, password...
category
category_id, name
New document.


Untitled* - MySQL Workbench
MySQL Model
EER Diagram
File Edit View Arrange Model Database Tools Scripting Help
Add Diagram Ctrl+T
Create Diagram from Catalog Objects
User Defined Types...
Table Templates...
Object Notation
Relationship Notation
Diagram Properties and Size...
Model Options...
Crow's Foot (IE)
Classic
Connect to Columns
UML
IDEF1X
Templates
timestamps
create_time, update_time
user
username, email, passwo...
category
category_id, name
Navigator
mydb
Tables
Views
Routine Groups
ANIMAUX
Catalog Layers User Types
PÉRIODE: Table
Description Properties History
PÉRIODE
date_début VARCHAR(42)
date_fin VARCHAR(42)
num_enclos VARCHAR(42)
Indexes
1:1
1:n
n:m
Dans le menu "Model"
Choisissez : "Relationship Notation"
puis : "Connect to columns"
New document.


A_PÈRE
code_espèce VARCHAR(42)
nom VARCHAR(42)
code_espèce père présumé VARCHAR(42)
nom père présumé VARCHAR(42)
Indexes
ANIMAL
code_espèce VARCHAR(42)
nom VARCHAR(42)
sexe VARCHAR(42)
date_naissance VARCHAR(42)
date_décès VARCHAR(42)
code_espèce mère VARCHAR(42)
nom mère VARCHAR(42)
Indexes
OCCUPE
code_espèce VARCHAR(42)
nom VARCHAR(42)
date_début VARCHAR(42)
date_fin VARCHAR(42)
num_enclos VARCHAR(42)
Indexes
PÉRIODE
date_début VARCHAR(42)
date_fin VARCHAR(42)
Indexes
Arrangez la disposition des tables pour que le diagramme soit le plus lisible possible
PEUT_COHABITER_AVEC
code_espèce VARCHAR(42)
code_espèce commensale VARCHAR(42)
nb_max_commensaux VARCHAR(42)
Indexes
ESPÈCE
code_espèce VARCHAR(42)
libellé VARCHAR(42)
Indexes
PEUT_VIVRE_DANS
code_espèce VARCHAR(42)
num_enclos VARCHAR(42)
nb_max_congénères VARCHAR(42)
Indexes



Pour exporter l'image des tables :
Dans le menu "File"
Choisissez : "Export"
puis : "Exports as PNG"