

Test Run MySql Workbench



# Welcome to MySQL Workbench

MySQL Workbench is the official graphical user interface (GUI) tool for MySQL. It allows you to design, create and browse your database schemas, work with database objects and insert data as well as design and run SQL queries to work with stored data. You can also migrate schemas and data from other database vendors to your MySQL database.


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## MySQL Connections



Local instance MySQL Router

 root

 localhost:3306

Click on + and give a name

MySQL Connections  

Local instance MySQL Router

 root

 localhost:3306

# Choose a connection name you like

Setup New Connection

Connection Name:  Type a name for the connection

Connection Method:  Method to use to connect to the RDBMS

Parameters SSL Advanced


Hostname:  Port:  Name or IP address of the server host - and TCP/IP port.

Username:  Name of the user to connect with.

Password:   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.

Click on Test Connection. Enter password



**Connect to MySQL Server** [X]

**Please enter password for the following service:**

**Service:** Mysql@127.0.0.1:3306


**User:** root

**Password:**

☐ Save password in vault

**OK** **Cancel**

# Save password in vault



**Connect to MySQL Server**

Please enter password for the following service:

**Service:** Mysql@127.0.0.1:3306

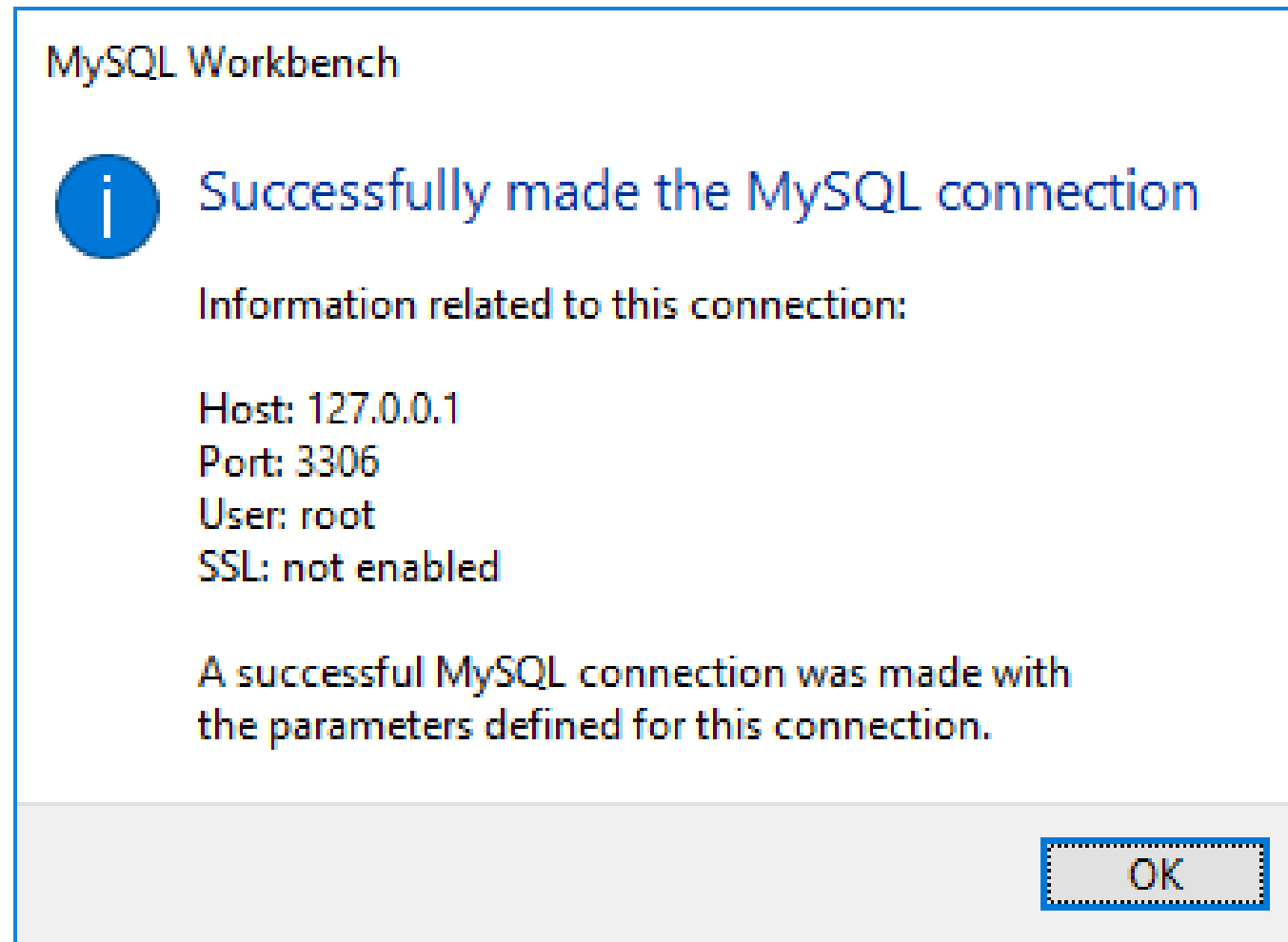
**User:** root

**Password:**

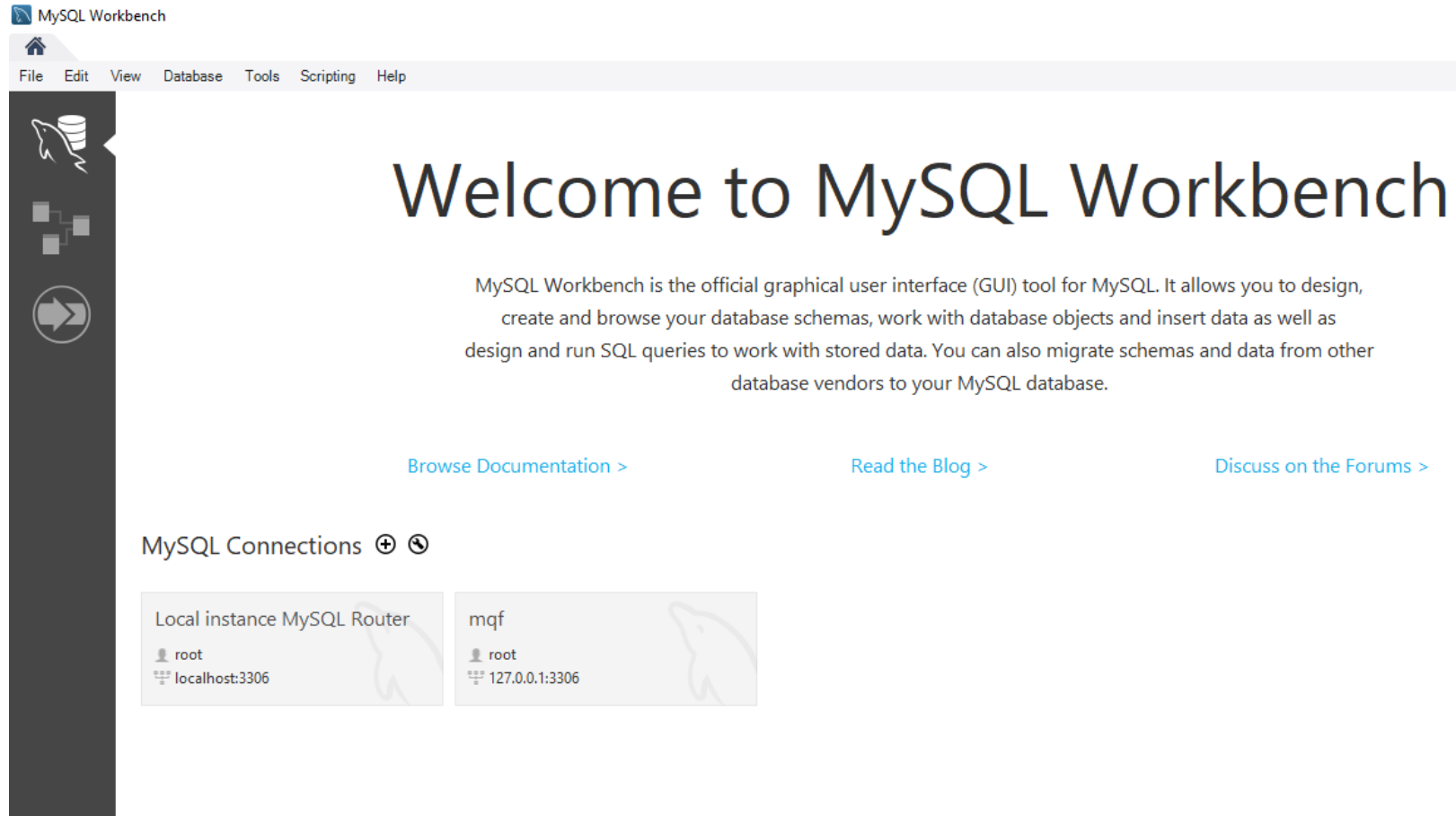
☒ Save password in vault

**OK** **Cancel**

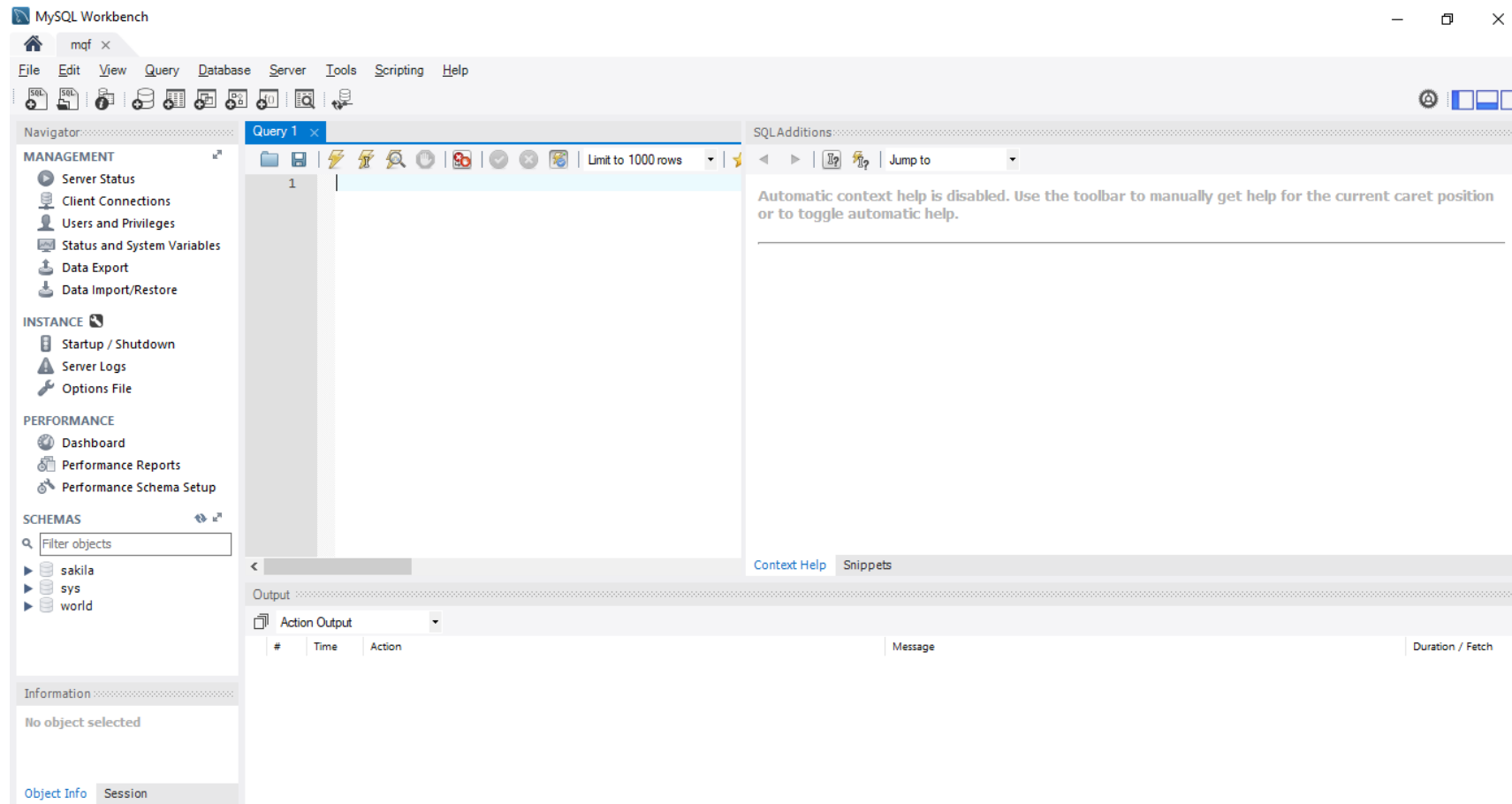
# Click OK



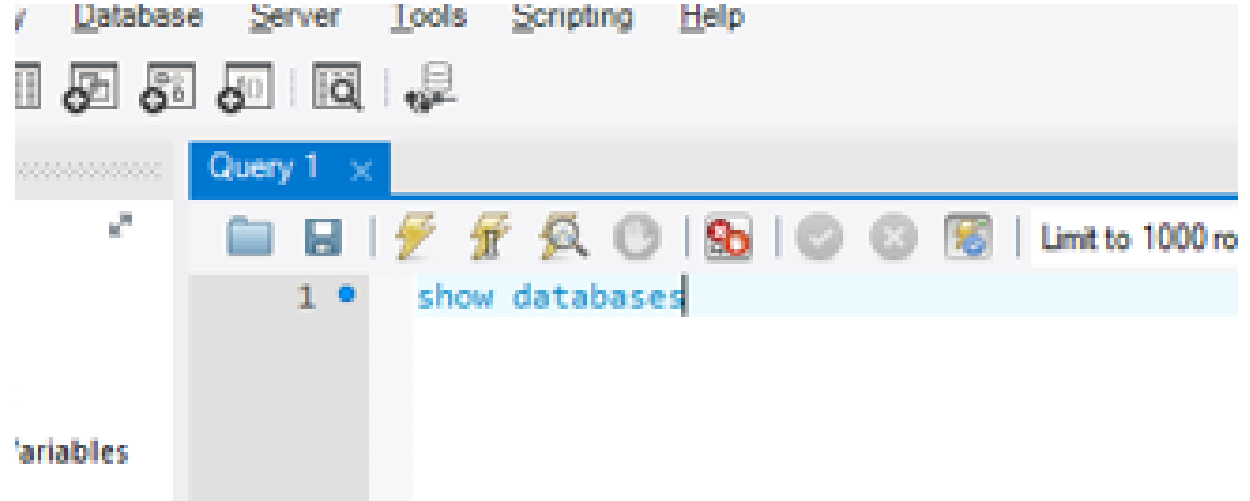
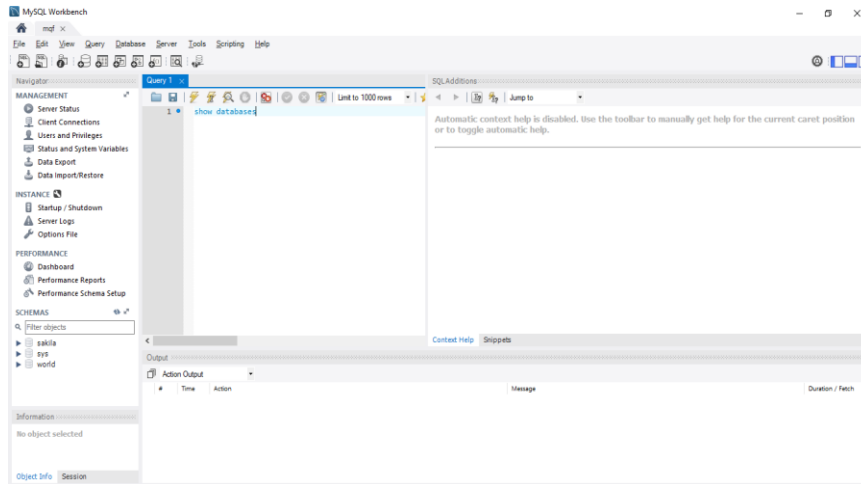
# Click on mqf



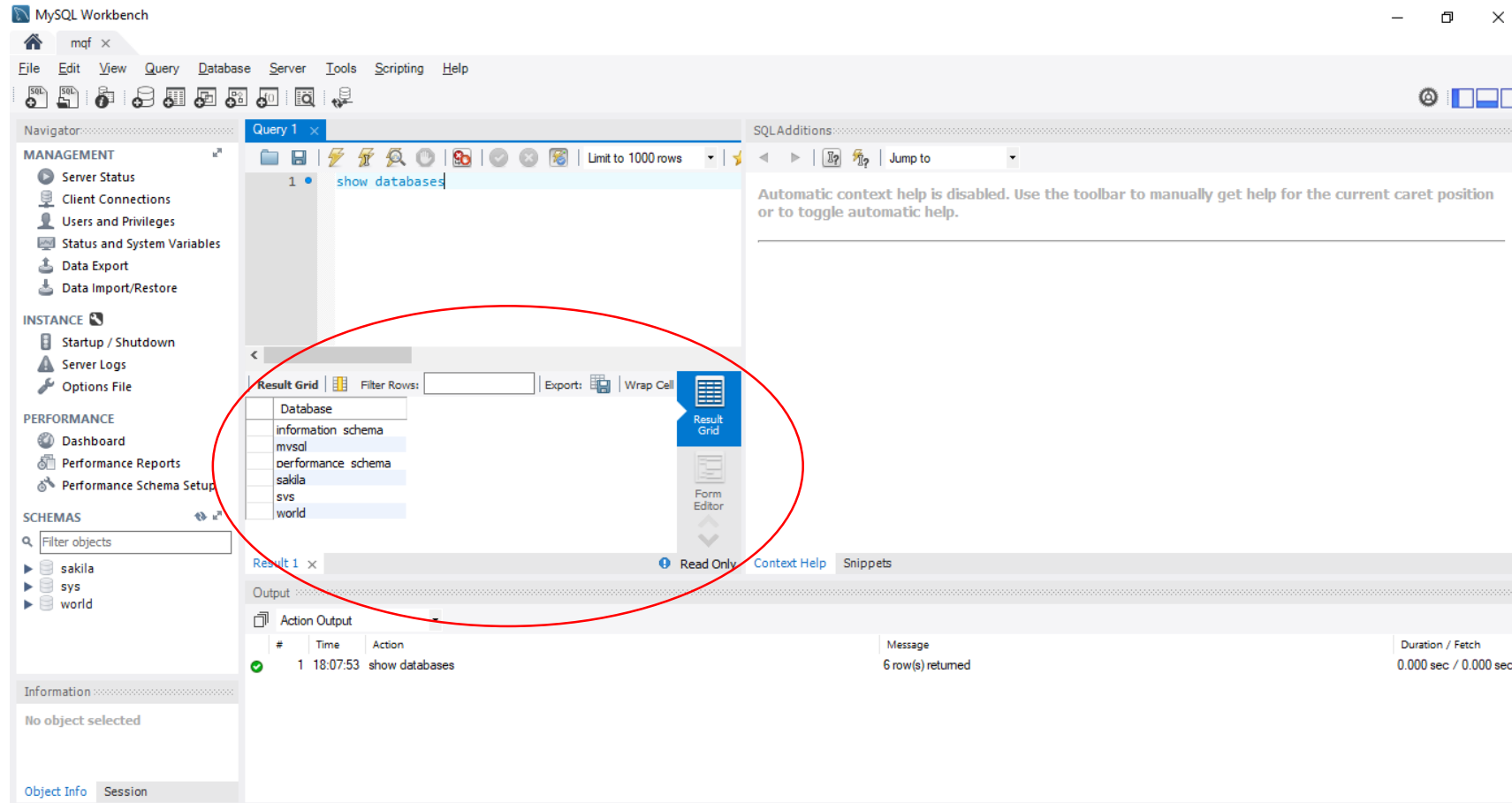




# Type in show databases on query editor



# Click lightning bolt to execute the sql statement



# Let's copy the products.sql into query editor area

- DROP DATABASE IF EXISTS products;
- CREATE DATABASE products;
- USE products;
- CREATE TABLE books
- (- ID int NOT NULL AUTO\_INCREMENT PRIMARY KEY,
- Title varchar(60),
- Category varchar(32),
- ISBN varchar(20)
- );
- INSERT INTO books (Title,Category,ISBN) VALUES ('Visual Basic 2010 How to Program','Programming','0132152134');
- INSERT INTO books (Title,Category,ISBN) VALUES ('Visual C# 2010 How to Program','Programming','0132151421');
- INSERT INTO books (Title,Category,ISBN) VALUES ('Java How to Program','Programming','0132575663');
- INSERT INTO books (Title,Category,ISBN) VALUES ('C++ How to Program','Programming','0132662361');
- INSERT INTO books (Title,Category,ISBN) VALUES ('C How to Program','Programming','0136123562');
- INSERT INTO books (Title,Category,ISBN) VALUES ('Internet & World Wide Web How to Program','Programming','0132151006');
- INSERT INTO books (Title,Category,ISBN) VALUES ('Operating Systems','Operating Systems','0131828274');

MySQL Workbench

mqf x

File Edit View Query Database Server Tools Scripting Help

Navigator: Query 1 x

MANAGEMENT

- Server Status
- Client Connections
- Users and Privileges
- Status and System Variables
- Data Export
- Data Import/Restore

INSTANCE

- Startup / Shutdown
- Server Logs
- Options File

PERFORMANCE

- Dashboard
- Performance Reports
- Performance Schema Setup

SCHEMAS

Filter objects

- sakila
- sys
- world

Query 1 x

```
1 DROP DATABASE IF EXISTS products;
2 CREATE DATABASE products;
3 USE products;
4
5 CREATE TABLE books
6 (
7     ID int NOT NULL AUTO_INCREMENT PRIMARY KEY,
8     Title varchar(60),
9     Category varchar(32),
10    ISBN varchar(20)
11 );
12
13 INSERT INTO books (Title,Category,ISBN) VALUES ('Visual Basic 2010 How to Program','Programing','0130649969');
14 INSERT INTO books (Title,Category,ISBN) VALUES ('Visual C# 2010 How to Program','Programing','0130649969');
15 INSERT INTO books (Title,Category,ISBN) VALUES ('Java How to Program','Programming','0130649969');
16 INSERT INTO books (Title,Category,ISBN) VALUES ('C++ How to Program','Programming','0130649969');
17 INSERT INTO books (Title,Category,ISBN) VALUES ('C How to Program','Programming','0130649969');
18 INSERT INTO books (Title,Category,ISBN) VALUES ('Internet & World Wide Web How to Program','Programming','0130649969');
19 INSERT INTO books (Title,Category,ISBN) VALUES ('Operating Systems','Operating Systems','0130649969');
```

SQLAdditions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Result Grid

Database
information schema
mysql
performance schema
sakila
sys
world

Information

No object selected

Object Info Session

Result 1 x

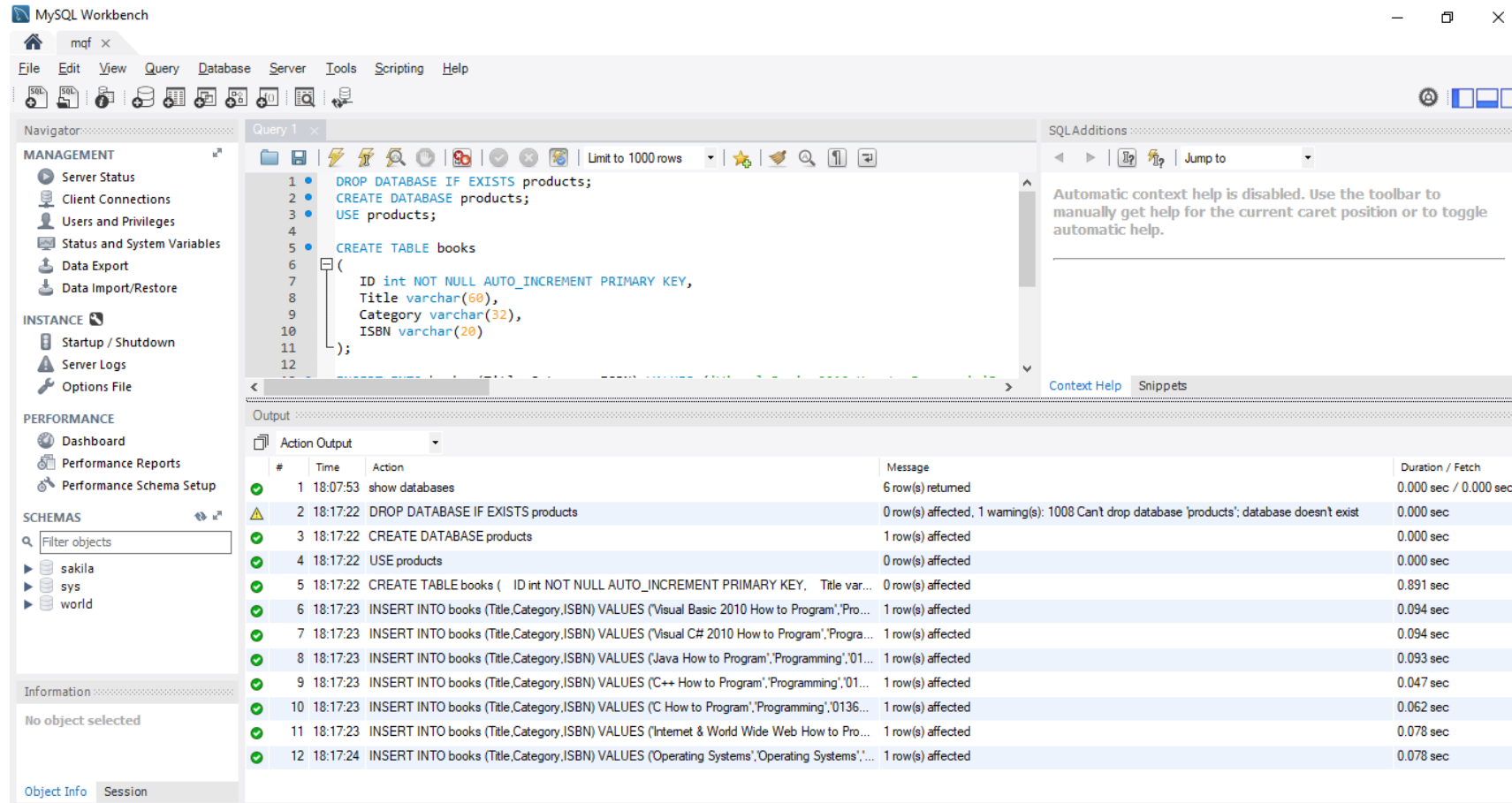
Read Only Context Help Snippets

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	18:07:53	show databases	6 row(s) returned	0.000 sec / 0.000 sec

Now let's execute this SQL script by click on the lightning bolt  again




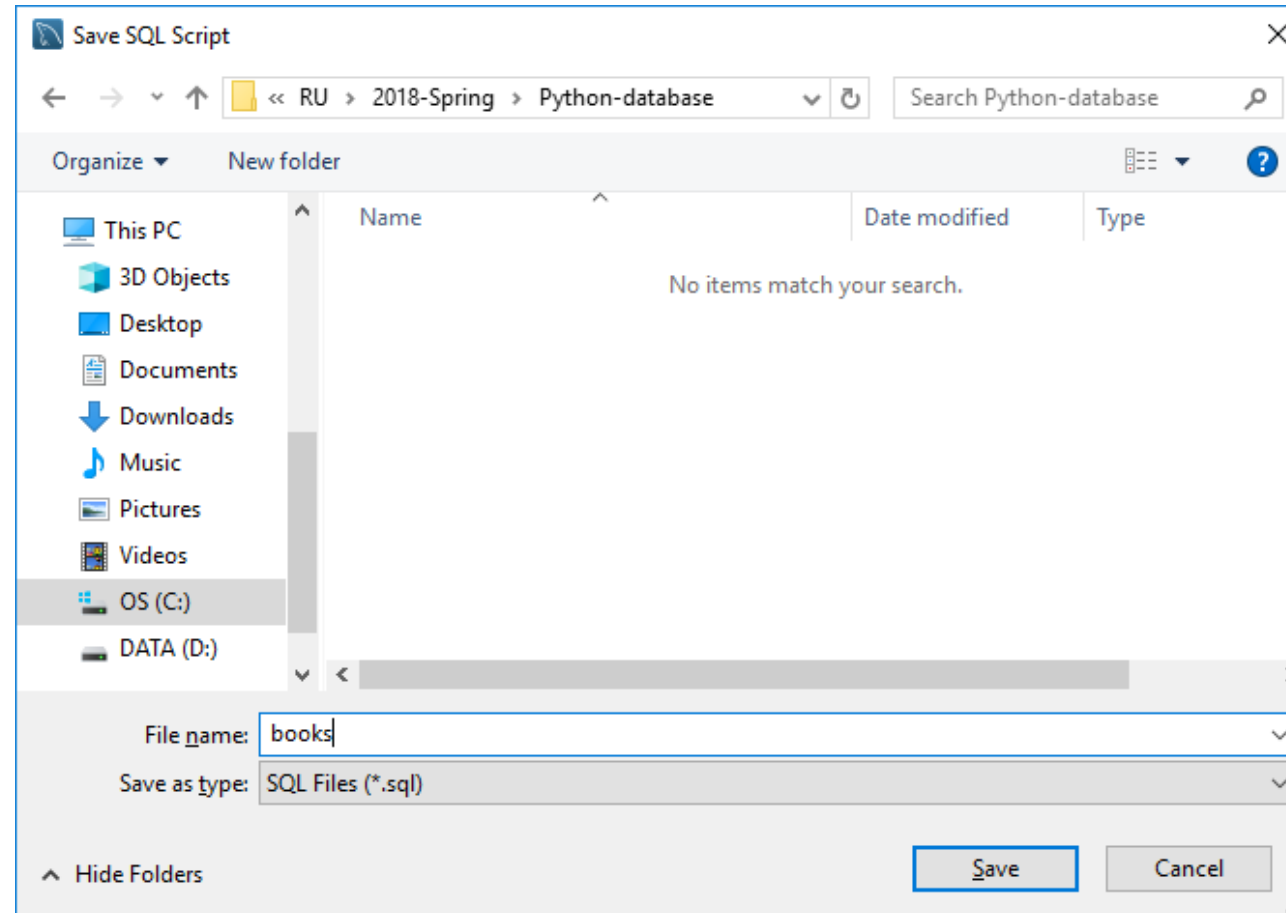
The screenshot shows the MySQL Workbench interface with a SQL script being executed. The script contains the following commands:

```
1 DROP DATABASE IF EXISTS products;
2 CREATE DATABASE products;
3 USE products;
4
5 CREATE TABLE books
6 (
7     ID int NOT NULL AUTO_INCREMENT PRIMARY KEY,
8     Title varchar(60),
9     Category varchar(32),
10    ISBN varchar(20)
11 );
12
```

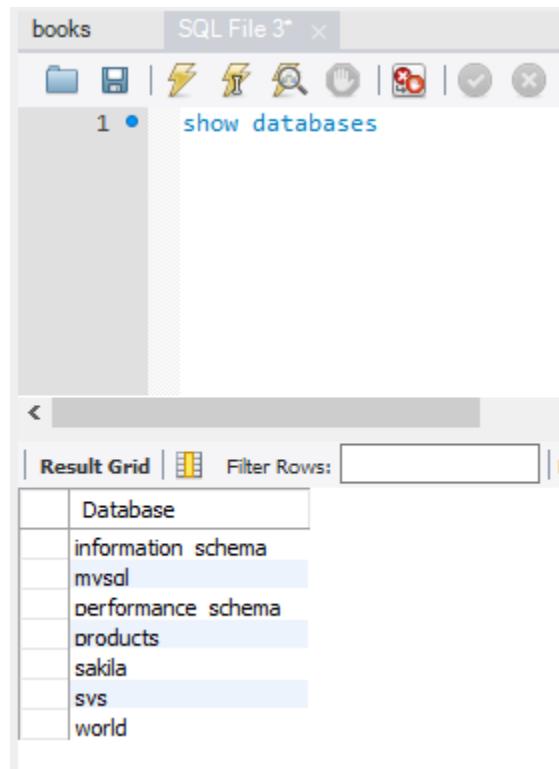
The Output window displays the results of the execution:

#	Time	Action	Message	Duration / Fetch
1	18:07:53	show databases	6 row(s) returned	0.000 sec / 0.000 sec
2	18:17:22	DROP DATABASE IF EXISTS products	0 row(s) affected, 1 warning(s): 1008 Can't drop database 'products'; database doesn't exist	0.000 sec
3	18:17:22	CREATE DATABASE products	1 row(s) affected	0.000 sec
4	18:17:22	USE products	0 row(s) affected	0.000 sec
5	18:17:22	CREATE TABLE books ( ID int NOT NULL AUTO_INCREMENT PRIMARY KEY, Title var...	0 row(s) affected	0.891 sec
6	18:17:23	INSERT INTO books (Title,Category,ISBN) VALUES ('Visual Basic 2010 How to Program','Pro...	1 row(s) affected	0.094 sec
7	18:17:23	INSERT INTO books (Title,Category,ISBN) VALUES ('Visual C# 2010 How to Program','Progra...	1 row(s) affected	0.094 sec
8	18:17:23	INSERT INTO books (Title,Category,ISBN) VALUES ('Java How to Program','Programming','01...	1 row(s) affected	0.093 sec
9	18:17:23	INSERT INTO books (Title,Category,ISBN) VALUES ('C++ How to Program','Programming','01...	1 row(s) affected	0.047 sec
10	18:17:23	INSERT INTO books (Title,Category,ISBN) VALUES ('C How to Program','Programming','0136...	1 row(s) affected	0.062 sec
11	18:17:23	INSERT INTO books (Title,Category,ISBN) VALUES ('Internet & World Wide Web How to Pro...	1 row(s) affected	0.078 sec
12	18:17:24	INSERT INTO books (Title,Category,ISBN) VALUES ('Operating Systems','Operating Systems',...	1 row(s) affected	0.078 sec

Now let's save this script to a file at a location you want so that we may use it later. Click  left to the lightning bolt and store it as book.sql or other name you like



Let's show databases again. Click on  to open a new SQL tab to execute sql statement

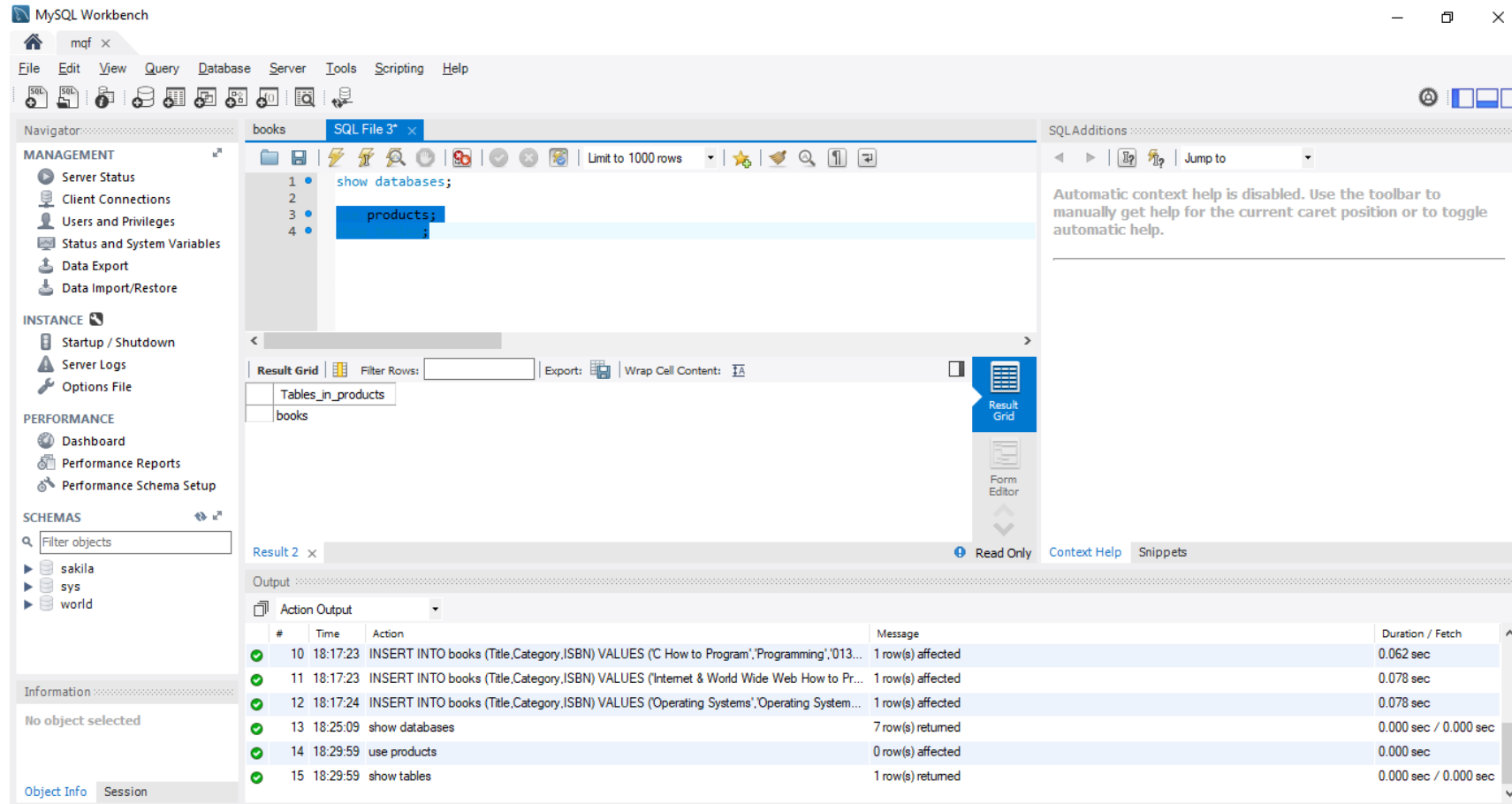




# Check the table in products database

- Type in the following to see tables on products database
- `use products;`
- `show tables;`
- highlight it and click on the lightning bolt to execute the sql statements.

# Only execute the highlighted statements



The screenshot displays the MySQL Workbench interface. The left sidebar contains navigation panels for MANAGEMENT, INSTANCE, PERFORMANCE, and SCHEMAS. The central editor shows a SQL script with two statements: `show databases;` and `use products;`. The `use products;` statement is highlighted in blue. The bottom panel shows the 'Action Output' tab with a table of execution results.

#	Time	Action	Message	Duration / Fetch
✓ 10	18:17:23	INSERT INTO books (Title,Category,ISBN) VALUES ('C How to Program','Programming','013...)	1 row(s) affected	0.062 sec
✓ 11	18:17:23	INSERT INTO books (Title,Category,ISBN) VALUES ('Internet & World Wide Web How to Pr...	1 row(s) affected	0.078 sec
✓ 12	18:17:24	INSERT INTO books (Title,Category,ISBN) VALUES ('Operating Systems','Operating System...	1 row(s) affected	0.078 sec
✓ 13	18:25:09	show databases	7 row(s) returned	0.000 sec / 0.000 sec
✓ 14	18:29:59	use products	0 row(s) affected	0.000 sec
✓ 15	18:29:59	show tables	1 row(s) returned	0.000 sec / 0.000 sec

# Type in “select \* from books;” then highlight and the execute it

The screenshot shows the MySQL Workbench interface. The SQL Editor window contains the following query:

```
show databases;  
use products;  
show tables;  
* books;
```

The query is executed, and the results are displayed in the Result Grid window. The results show the following data:

ID	Title	Category	ISBN
1	Visual Basic 2010 How to Program	Programming	0132152134
2	Visual C# 2010 How to Program	Programming	0132151421
3	Java How to Program	Programming	0132575663
4	C++ How to Program	Programming	0132662361
5	C How to Program	Programming	0136123562
6	Internet & World Wide Web How to Program	Programming	0132151006
7	Operating Systems	Operating Systems	0131828274


The Output window shows the following messages:

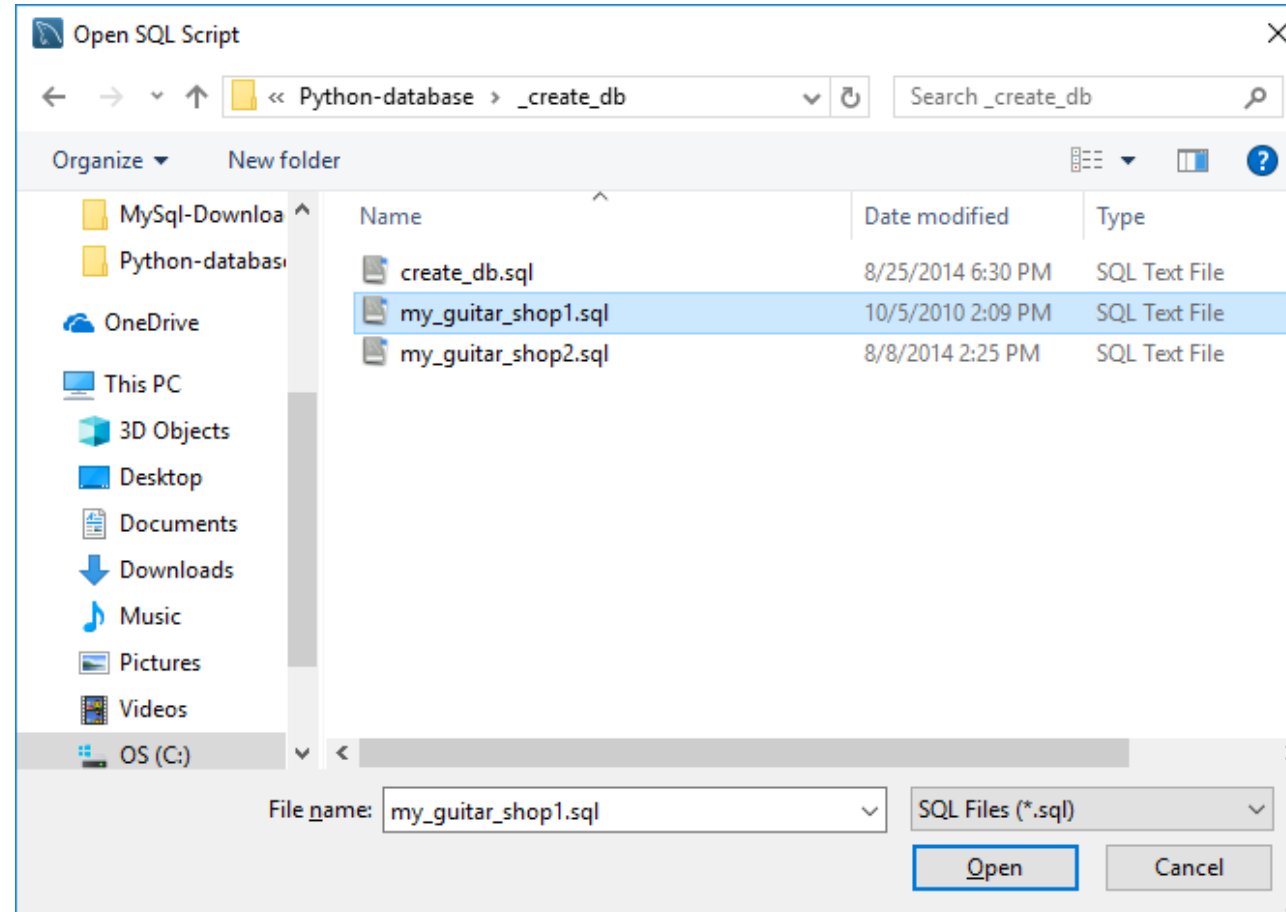
#	Time	Action	Message	Duration / Fetch
11	18:17:23	INSERT INTO books (Title,Category,ISBN) VALUES ('Internet & World Wide Web How to Pr...	1 row(s) affected	0.078 sec
12	18:17:24	INSERT INTO books (Title,Category,ISBN) VALUES ('Operating Systems','Operating System...	1 row(s) affected	0.078 sec
13	18:25:09	show databases	7 row(s) returned	0.000 sec / 0.000 sec
14	18:29:59	use products	0 row(s) affected	0.000 sec
15	18:29:59	show tables	1 row(s) returned	0.000 sec / 0.000 sec
16	18:32:29	select * from books LIMIT 0, 1000	7 row(s) returned	0.000 sec / 0.000 sec

*select \* from books  
order by title;*

The screenshot shows a database management interface. At the top, a SQL query is entered in a text area: `select * from books; order by title;`. Below the query area is a toolbar with various icons for editing and exporting. The main part of the interface displays a table of results. The table has four columns: ID, Title, Category, and ISBN. The data is sorted by title. The table contains 8 rows, including a row with NULL values. On the right side, there is a vertical sidebar with buttons for 'Result Grid' and 'Form Editor'. At the bottom, there is a tab labeled 'books 4' and two buttons: 'Apply' and 'Revert'.

ID	Title	Category	ISBN
5	C How to Program	Programming	0136123562
4	C++ How to Program	Programming	0132662361
6	Internet & World Wide Web How to Program	Programming	0132151006
3	Java How to Program	Programming	0132575663
7	Operating Systems	Operating Systems	0131828274
1	Visual Basic 2010 How to Program	Programming	0132152134
2	Visual C# 2010 How to Program	Programming	0132151421
NULL	NULL	NULL	NULL

Click the  to open a SQL script file in a new query tab



# Choose my\_guitar\_shop1.sql file

```
1  -- create and select the database
2  • DROP DATABASE IF EXISTS my_guitar_shop1;
3  • CREATE DATABASE my_guitar_shop1;
4  • USE my_guitar_shop1; -- MySQL command
5
6  -- create the tables
7  • CREATE TABLE categories (
8      categoryID INT(11) NOT NULL AUTO_INCREMENT,
9      categoryName VARCHAR(255) NOT NULL,
10     PRIMARY KEY (categoryID)
11 );
12
13 • CREATE TABLE products (
14     productID INT(11) NOT NULL AUTO_INCREMENT,
15     categoryID INT(11) NOT NULL,
16     productCode VARCHAR(10) NOT NULL UNIQUE,
17     productName VARCHAR(255) NOT NULL,
18     listPrice DECIMAL(10,2) NOT NULL,
19     PRIMARY KEY (productID)
20 );
21
22 • CREATE TABLE orders (
23     orderID INT(11) NOT NULL AUTO_INCREMENT,
24     customerID INT NOT NULL,
25     orderDate DATETIME NOT NULL,
26     PRIMARY KEY (orderID)
27 );
28
29 -- insert data into the database
30 • INSERT INTO categories VALUES
31     (1, 'Guitars'),
32     (2, 'Basses')
```

```

27     );
28
29     -- insert data into the database
30     • INSERT INTO categories VALUES
31       (1, 'Guitars'),
32       (2, 'Basses'),
33       (3, 'Drums');
34
35     • INSERT INTO products VALUES
36       (1, 1, 'strat', 'Fender Stratocaster', '699.00'),
37       (2, 1, 'les_paul', 'Gibson Les Paul', '1199.00'),
38       (3, 1, 'sg', 'Gibson SG', '2517.00'),
39       (4, 1, 'fg700s', 'Yamaha FG700S', '489.99'),
40       (5, 1, 'washburn', 'Washburn D10S', '299.00'),
41       (6, 1, 'rodriguez', 'Rodriguez Caballero 11', '415.00'),
42       (7, 2, 'precision', 'Fender Precision', '799.99'),
43       (8, 2, 'hofner', 'Hofner Icon', '499.99'),
44       (9, 3, 'ludwig', 'Ludwig 5-piece Drum Set with Cymbals', '699.99'),
45       (10, 3, 'tama', 'Tama 5-Piece Drum Set with Cymbals', '799.99');
46
47     -- create the users and grant privileges to those users
48     • GRANT SELECT, INSERT, DELETE, UPDATE
49       ON my_guitar_shop1.*
50       TO mgs_user@localhost
51       IDENTIFIED BY 'pa55word';
52
53     • GRANT SELECT
54       ON products
55       TO mgs_tester@localhost
56       IDENTIFIED BY 'pa55word';
57

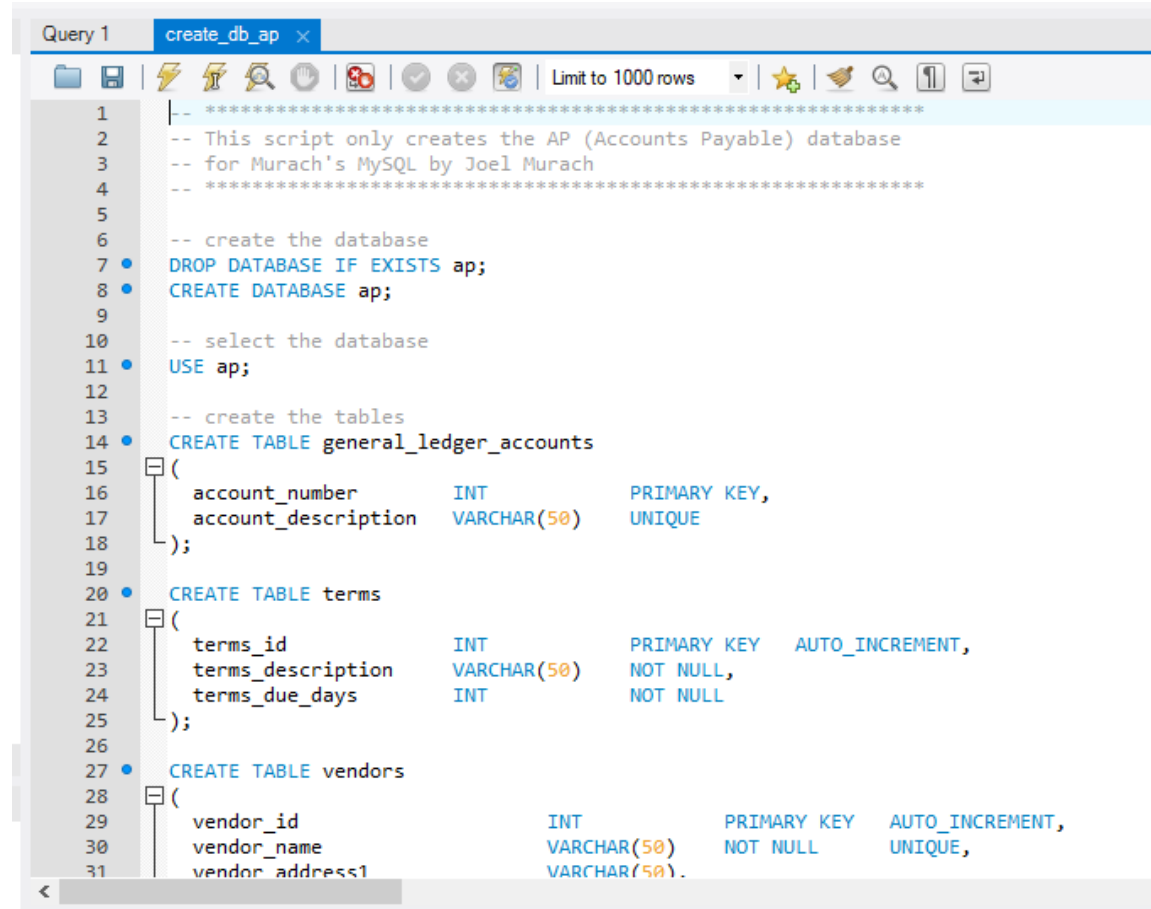
```

# Click the lightning bolt to execute this script

⚠	23	19:15:20	DROP DATABASE IF EXISTS my_guitar_shop1	0 row(s) affected, 1 warning(s): 1008 Can't drop database 'my_guitar_shop1'; database does...	0.000 sec
✓	24	19:15:20	CREATE DATABASE my_guitar_shop1	1 row(s) affected	0.000 sec
✓	25	19:15:20	USE my_guitar_shop1	0 row(s) affected	0.000 sec
✓	26	19:15:20	CREATE TABLE categories ( categoryID INT(11) NOT NULL AUTO_INCREMEN...	0 row(s) affected	0.390 sec
✓	27	19:15:20	CREATE TABLE products ( productID INT(11) NOT NULL AUTO_INCREMENT,...	0 row(s) affected	0.406 sec
✓	28	19:15:21	CREATE TABLE orders ( orderID INT(11) NOT NULL AUTO_INCREMENT, cu...	0 row(s) affected	0.438 sec
✓	29	19:15:21	INSERT INTO categories VALUES (1, 'Guitars'), (2, 'Basses'), (3, 'Drums')	3 row(s) affected Records: 3 Duplicates: 0 Warnings: 0	0.031 sec
✓	30	19:15:21	INSERT INTO products VALUES (1, 1, 'strat', 'Fender Stratocaster', '699.00'), (2, 1, 'les_paul'...	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0	0.110 sec
⚠	31	19:15:21	GRANT SELECT, INSERT, DELETE, UPDATE ON my_guitar_shop1.* TO mgs_user@local...	0 row(s) affected, 1 warning(s): 1287 Using GRANT for creating new user is deprecated and ...	0.110 sec
⚠	32	19:15:21	GRANT SELECT ON products TO mgs_tester@localhost IDENTIFIED BY 'pa55word'	0 row(s) affected, 1 warning(s): 1287 Using GRANT for creating new user is deprecated and ...	0.016 sec



Now let's create another database ap (account payable) create\_db\_ap.sql from Murach MySQL textbook. Retrieve from [www.murach.com](http://www.murach.com)

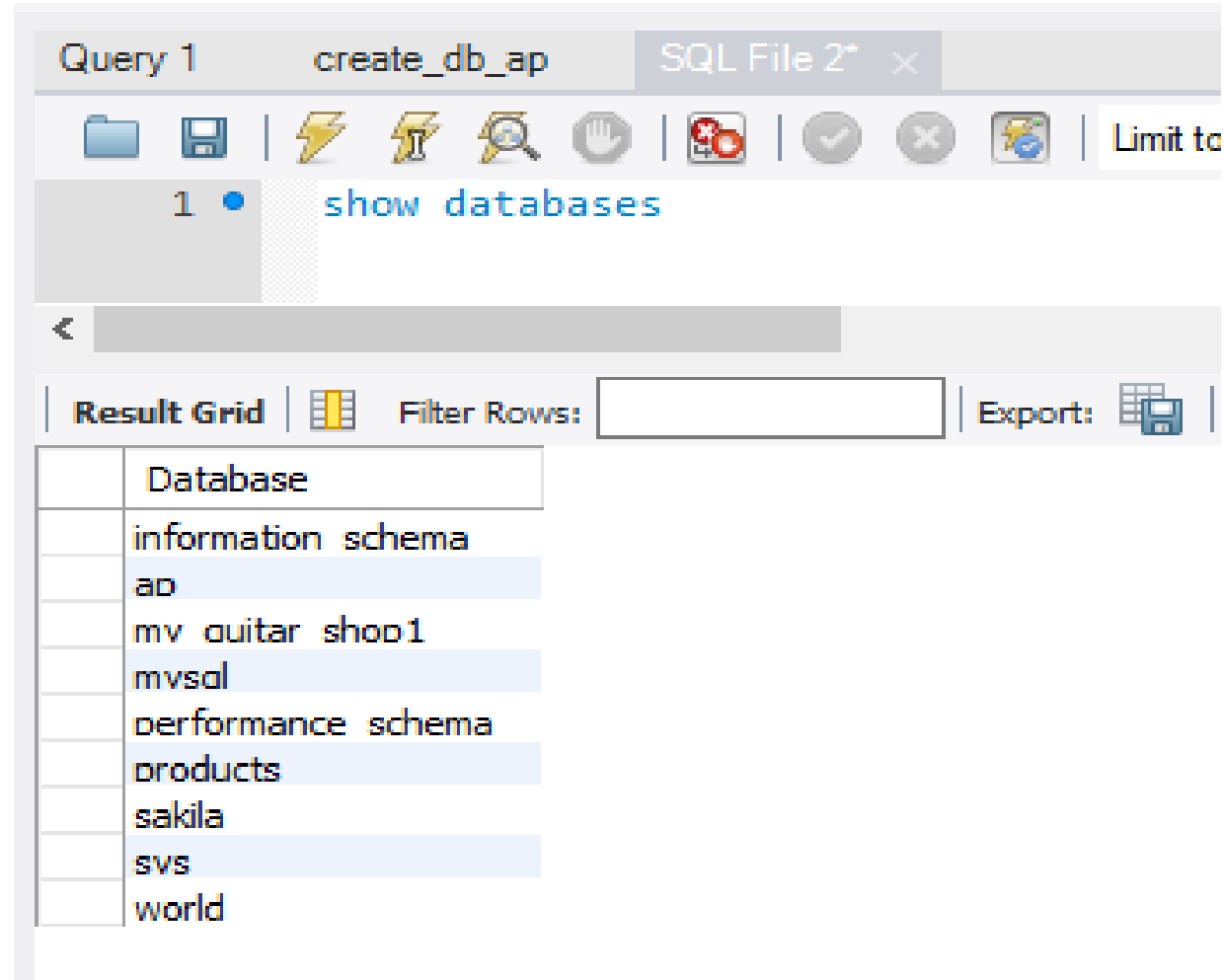


The screenshot shows a MySQL query editor window titled "Query 1" with a tab labeled "create\_db\_ap". The window contains a SQL script for creating a database and three tables. The script is as follows:

```
1  -- *****
2  -- This script only creates the AP (Accounts Payable) database
3  -- for Murach's MySQL by Joel Murach
4  -- *****
5
6  -- create the database
7  DROP DATABASE IF EXISTS ap;
8  CREATE DATABASE ap;
9
10 -- select the database
11 USE ap;
12
13 -- create the tables
14 CREATE TABLE general_ledger_accounts
15 (
16     account_number    INT          PRIMARY KEY,
17     account_description VARCHAR(50) UNIQUE,
18 );
19
20 CREATE TABLE terms
21 (
22     terms_id          INT          PRIMARY KEY AUTO_INCREMENT,
23     terms_description VARCHAR(50) NOT NULL,
24     terms_due_days    INT          NOT NULL,
25 );
26
27 CREATE TABLE vendors
28 (
29     vendor_id          INT          PRIMARY KEY AUTO_INCREMENT,
30     vendor_name        VARCHAR(50) NOT NULL UNIQUE,
31     vendor_address1    VARCHAR(50).
```



# Ap database is now on the database list



# Duplicate a table to use: P11.py to create a similar table like books and call it tempbook

The screenshot shows a SQL IDE interface with three tabs: 'create\_db\_ap', 'SQL File 2\*', and 'create user for books application'. The 'SQL File 2\*' tab is active, displaying a script with the following SQL commands:

```
1 use products;
2 CREATE TABLE tempbooks LIKE books;
3
4 INSERT INTO tempbooks
5   SELECT * FROM books;
```

Below the script editor, a log of executed queries is visible, showing the execution of the three commands and their results:

Query ID	Timestamp	Query Text	Row(s) affected	Records	Duplicates	Warnings	Time
22	20:52:00	use products	0 row(s) affected				0.000 sec
23	20:52:00	CREATE TABLE tempbooks LIKE books	0 row(s) affected				3.562 sec
24	20:52:04	INSERT INTO tempbooks SELECT * FROM books	7 row(s) affected	7	0	0	0.063 sec

Tempbooks is now created so that we can use it for insert delete and update practices

