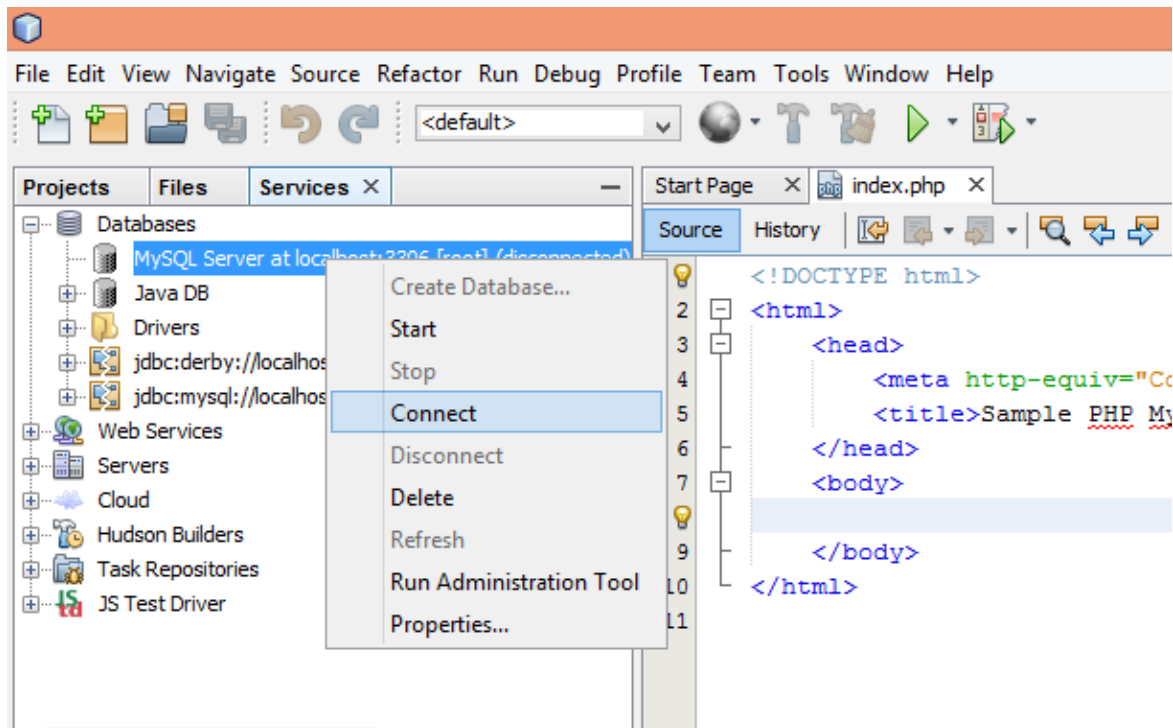# Connecting TO MySQL from PHP in NetBeans IDE

1. Start the IDE, switch to the Services window (Ctrl-5), and expand the Databases node.
2. To connect to the MySQL database server, navigate to the `MySQL Server` node and from the context menu choose Connect.

3. To execute an SQL command, you need to be connected to a database. Because only the MySQL system is available, you need to connect to it. To connect to the system database, navigate to the `mysql` node and from the context menu choose Connect. If a connection does not already exist, the New Database Connection dialog box appears. The User Name field is by default filled in with root. In the Password field, enter the root user's password.
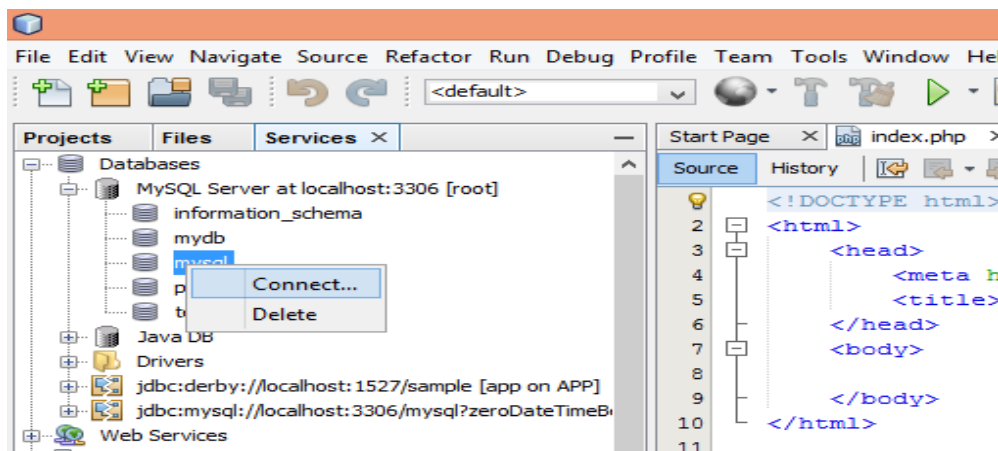
Note: If you have connected to the `mysql` database before, this dialog does not appear. Instead, the new connection node simply appears in the tree
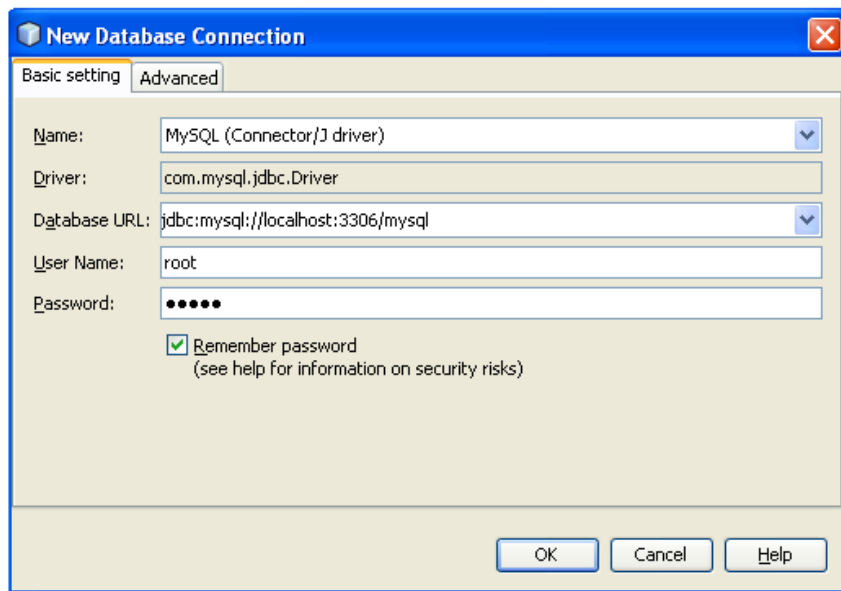
The New Database Connection dialog box shows the message "Connection established." Click OK. A new node named `jdbc:mysql://localhost:3306/mysql` is added to the Databases tree.
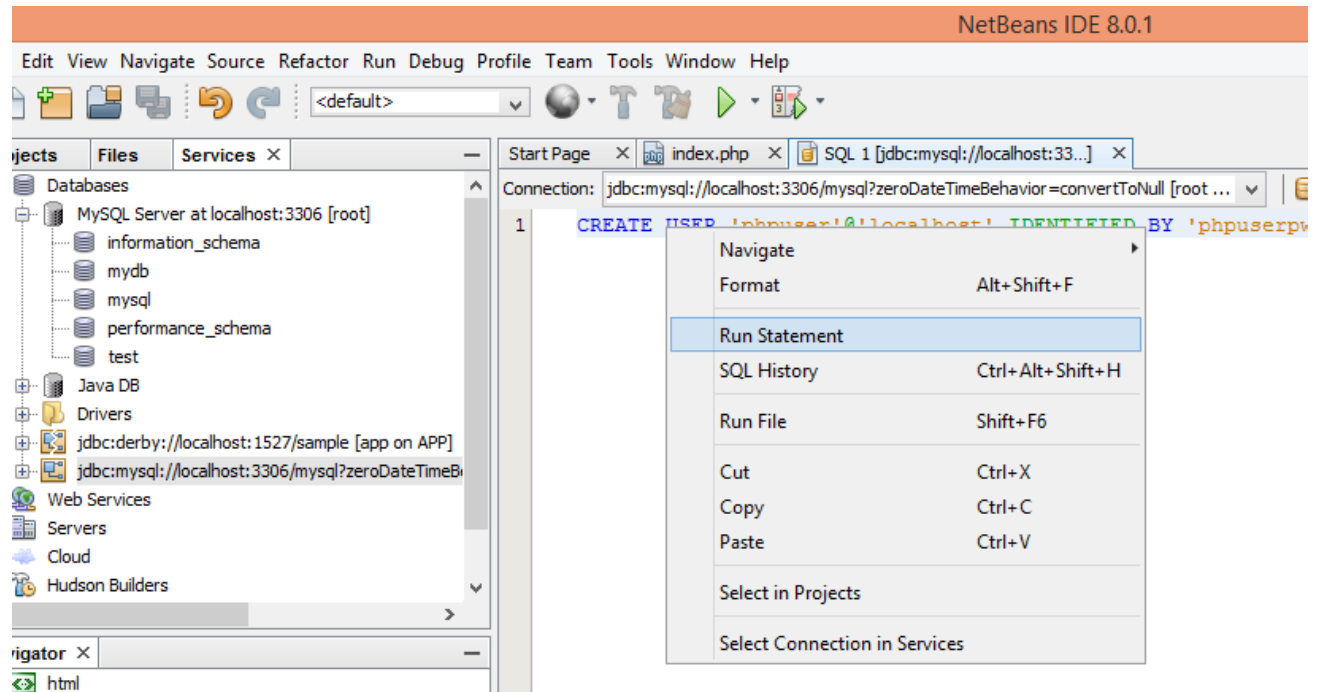
4. Navigate to the `jdbc:mysql://localhost:3306/mysql` node and from the context menu choose Execute Command.
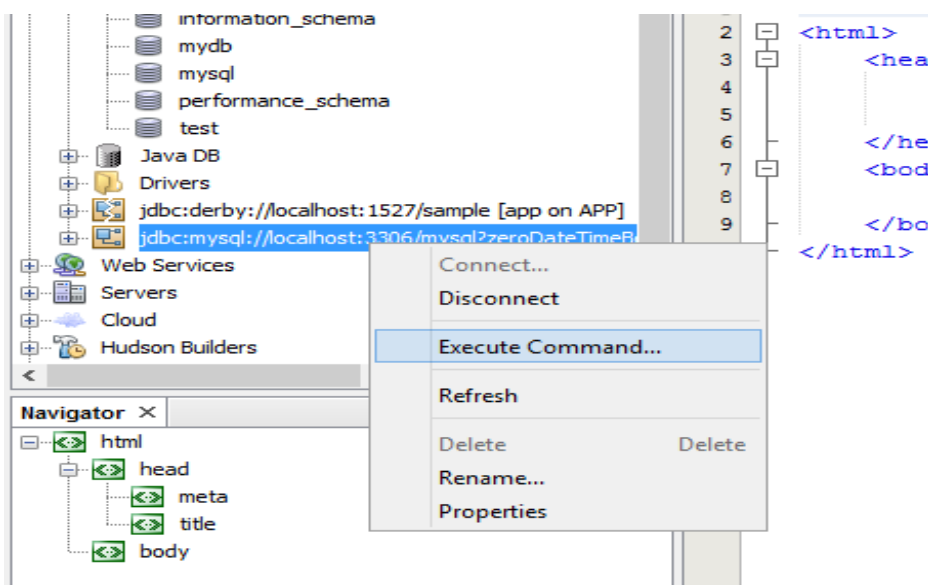

An SQL Command window opens. In the SQL Command window, use syntax similar to the following statement:

```
CREATE USER 'phpuser'@'localhost'
        IDENTIFIED BY 'phpuserpw'
```

From the context menu, choose Run Statement. If the command is executed successfully, the Status bar shows the message: "SQL Statement(s) executed successfully". If another message is displayed, check the syntax and follow the message hints.

5. To create the database: Navigate to the `MySQL Server at localhost:3306` node and from the context menu choose Create Database. The Create MySQL Database dialog box appears. Fill in the fields:

    o   In the Database Name field, enter "phpbook".
    o   Switch on the Grant full access to user checkbox and from the drop down list select `phpuser@localhost` Click OK.
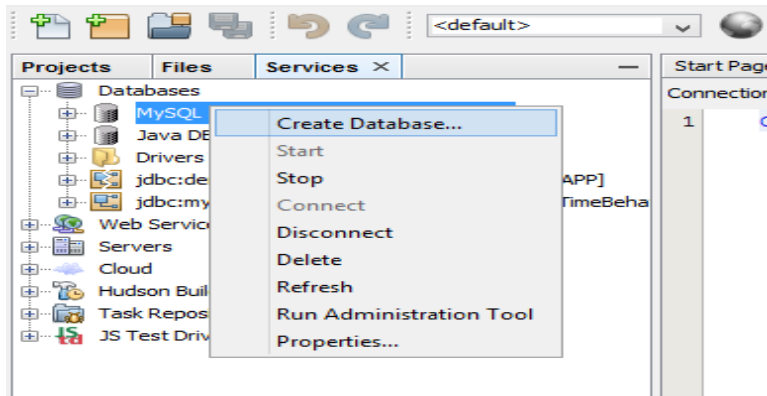
The "Grant full access to user" function does not always work. If it does not work, connect to the database as the root user and send the SQL query `GRANT ALL ON phpbook.* TO phpuser@localhost.`
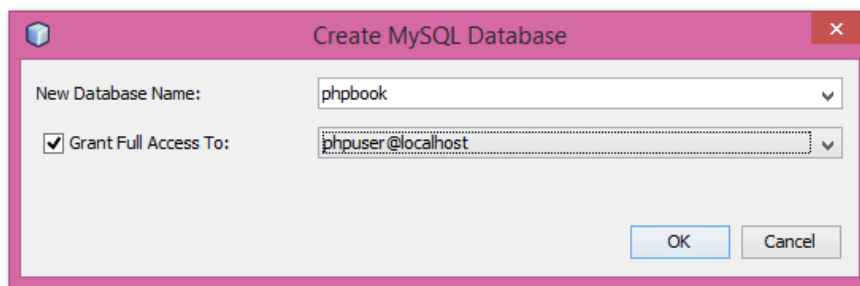
6. Establishing connection to "phpbook" Database: In the Services window, right-click the Databases node and select New Connection. The New Connection Wizard opens.
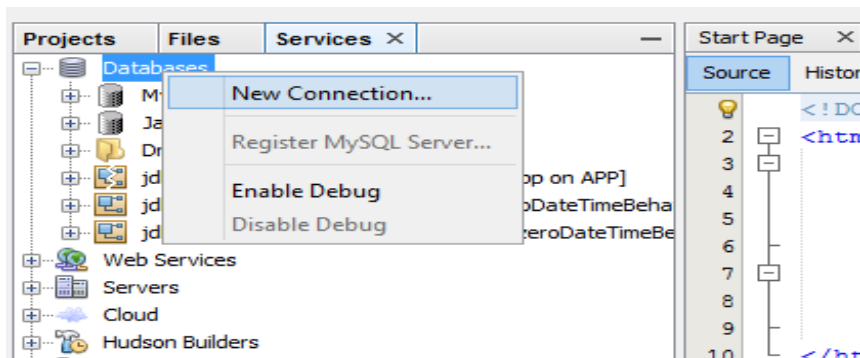
7. In the New Connection Wizard's Locate Driver panel, select the `MySQL (Connector/J Driver)`. Click Next. The Customize Connection panel opens.
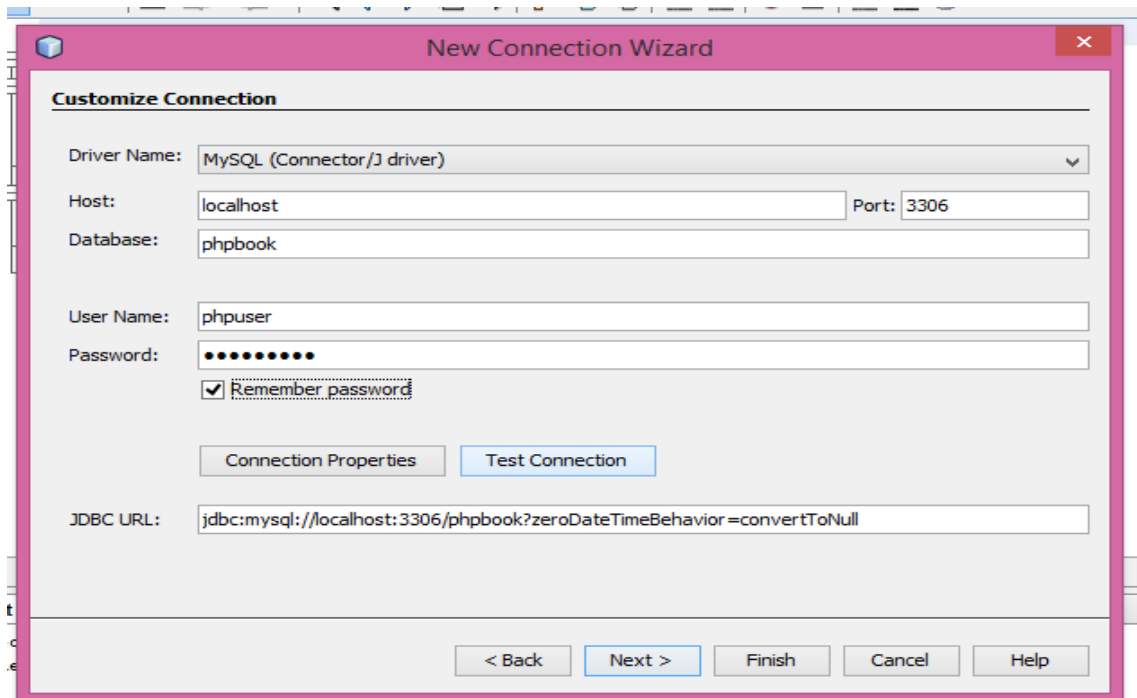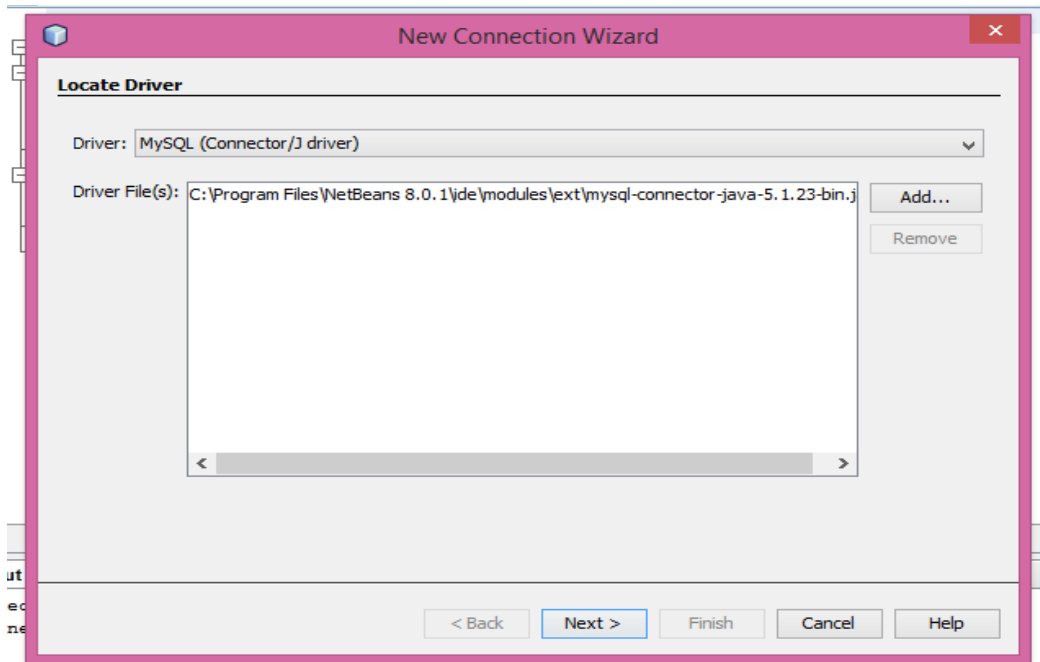
8. In the User Name and Password edit boxes, enter the name and the password specified in section Creating the Owner (User) of the Database (in our example phpuser and phpuserpw respectively). Tick Remember Password. Click Test Connection, and if the connection succeeds, click OK.
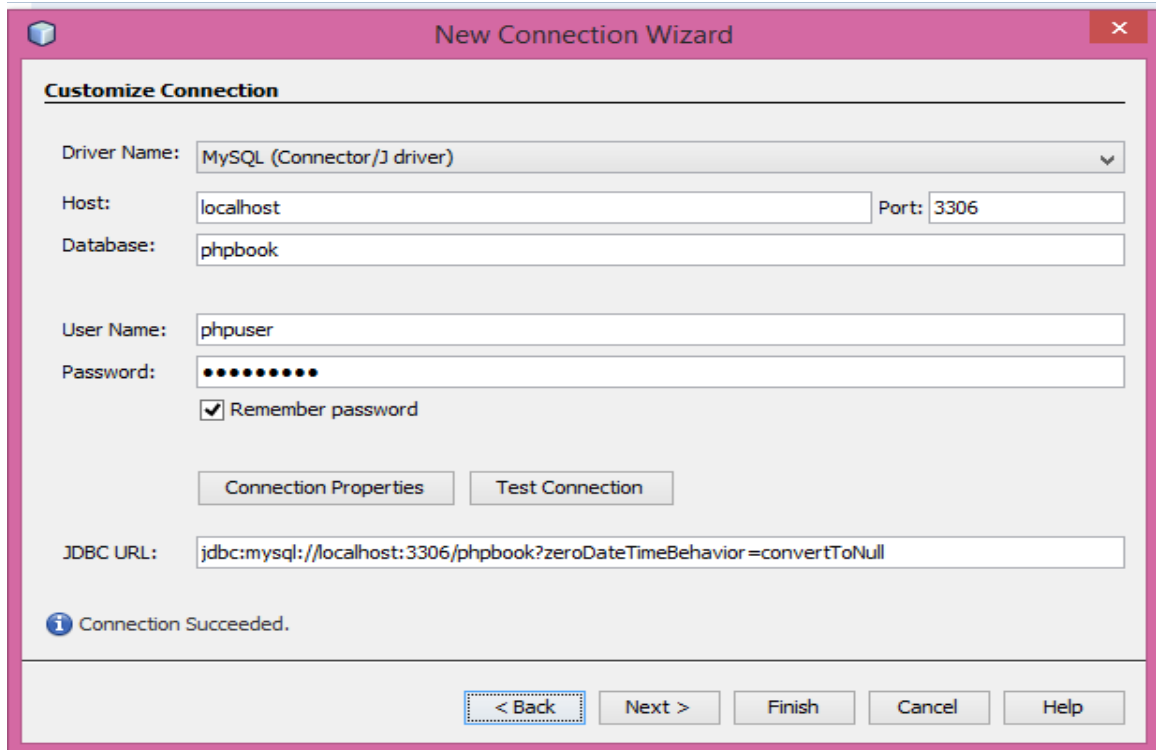
The corresponding new connection node is displayed in the Databases tree. Now you can delete the root user's connection to the "phpbook" database. Click the jdbc:mysql://localhost:3306/phpbook [root on Default schema] connection and choose Delete.
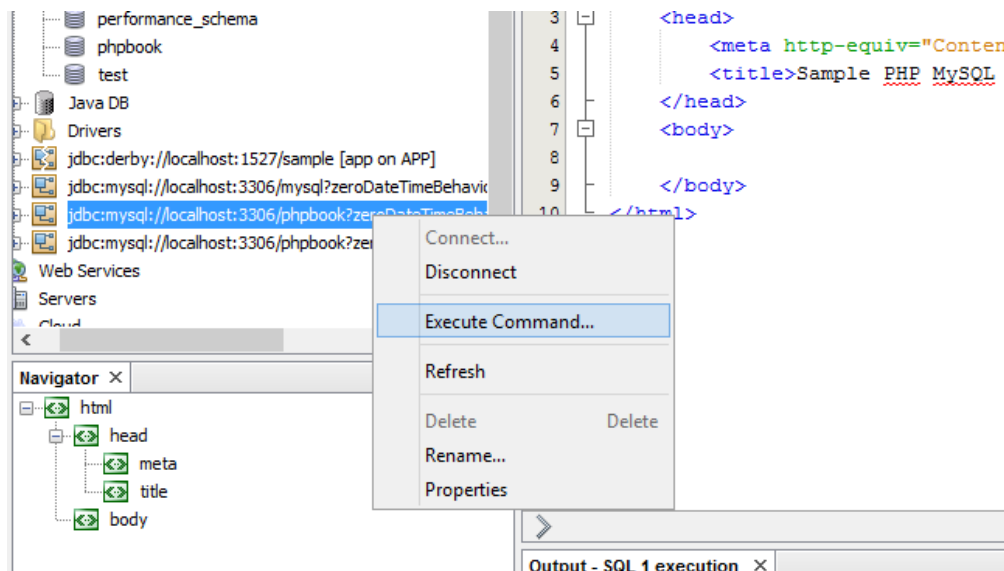
9. Navigate to the corresponding connection node and from its context menu choose Execute command and Create a table for your database. Then insert test values and check the table to see the values using select statement.

```
t Page    ×  index.php  ×    SQL 1 [jdbc:mysql://localhost:33...]  ×    SQL 2 [jdbc:mysql://localhost:33...]  ×

ection: jdbc:mysql://localhost:3306/phpbook?zeroDateTimeBehavior=convertToNull [p...    ▽

    CREATE TABLE businesses (
        business_id int(11) NOT NULL auto_increment,
        name varchar(255) NOT NULL,
        address varchar(255) NOT NULL,
        city varchar(128) NOT NULL,
        telephone varchar(64) NOT NULL,
        url varchar(255),
        PRIMARY KEY (business_id),
        UNIQUE business_id (business_id),
        KEY business_id_2 (business_id)
    );
```

```
Files    Services  ×              Start Page  ×  index.php  ×    SQL 1 [jdbc:mysql://localhost:33...]  ×
rver at localhost:3306 [root]
nation_schema                     Connection: jdbc:mysql://localhost:3306/phpbook?zeroDateTimeBehavior=convertToNull [p...  ▽

rmance_schema                       1
ook                                 2    INSERT INTO businesses (
                                    3        business_id,
                                    4        name,
                                    5        address,
                                    6        city,
                                    7        telephone,
by://localhost:1527/sample [app on APP]   8        url)
ql://localhost:3306/mysql?zeroDateTimeBehavic   9    VALUES (
ql://localhost:3306/phpbook?zeroDateTimeBeha   10       1,
ql://localhost:3306/phpbook?zeroDateTimeBeha   11       'Walmart',
s                                   12       'Northmount Drive',
                                    13       'Calgary',
                                    14       '403-100-0001',
                                    15       'www.walmart.com')
                                    16
```

```
Services  ×                       Start Page  ×  index.php  ×    SQL 1 [jdbc:mysql://localhost:33...]  ×
at localhost:3306 [root]
_schema                           Connection: jdbc:mysql://localhost:3306/phpbook?zeroDateTimeBehavior=convertToNull [p...  ▽

ce_schema                           1
                                    2    SELECT * FR(     Navigate                              ▶
                                    3                     Format                    Alt+Shift+F
                                    4
                                                          Run Statement
                                                          SQL History               Ctrl+Alt+Shift+H

calhost:1527/sample [app on APP]                          Run File                  Shift+F6
calhost:3306/mysql?zeroDateTimeBehavic
calhost:3306/phpbook?zeroDateTimeBeha                     Cut                       Ctrl+X
calhost:3306/phpbook?zeroDateTimeBeha                     Copy                      Ctrl+C
                                                          Paste                     Ctrl+V

                                                          Select in Projects

                                                          Select Connection in Services
```

Connection: jdbc:mysql://localhost:3306/phpbook?zeroDateTimeBehavior=convertToNull [p...

```
1
2   SELECT * FROM businesses
3
4
```

SELECT * FROM businesses ✕

Page Size: 20 | Total Rows: 2 Page: 1 of 1 | Matching Rows:

#	business_id	name	address	city	telephone
1	1	Walmart	Northmount Drive	Calgary	403-100-0001
2	2	Safeway	Campus Drive	Calgary	403-200-0002