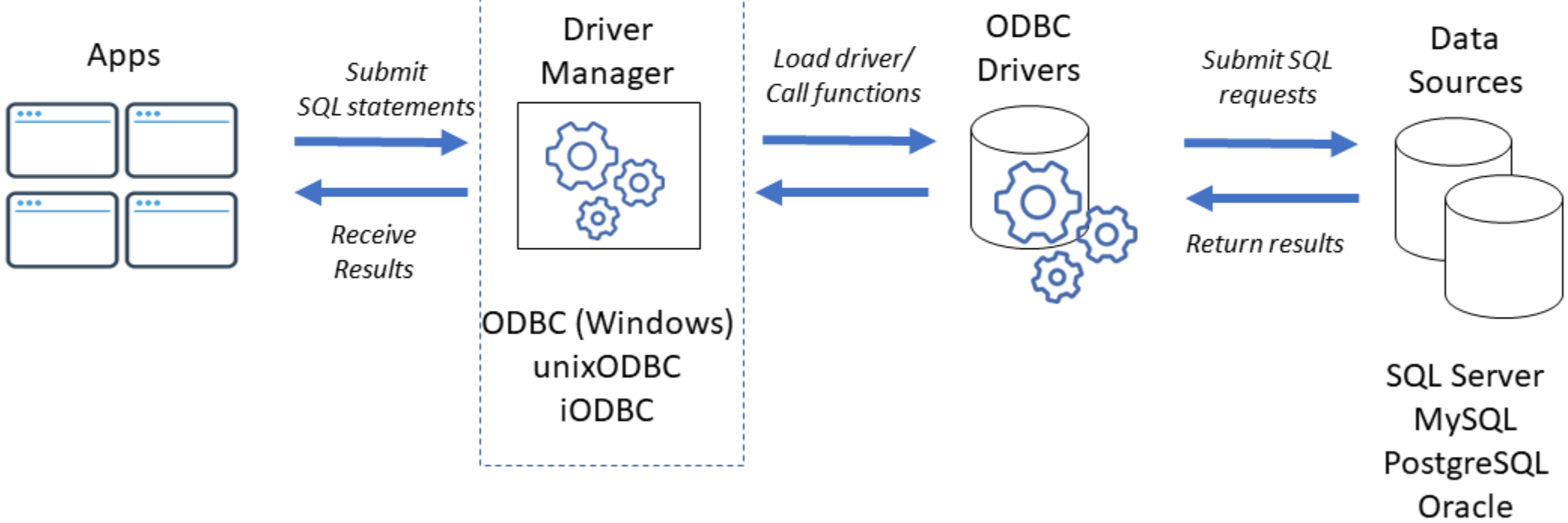
Čo je to ODBC?

Čo je ODBC?

- **Rozhranie** Microsoft **O**pen **D**atabase **C**onnectivity (ODBC)
- **Rozhranie programovacieho jazyka C**, ktoré **umožňuje** aplikáciám **pristupovať** k **údajom z rôznych** systémov na správu databáz (**DBMS**)

"Thank you, Sir. And would you like to be added to my database?"

ODBC Architecture



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You can use Microsoft Excel to access data from a MySQL database using ODBC connector. With ODBC Driver, you can import the data

You can use Microsoft Excel to access data from a MySQL database using ODBC connector. With ODBC Driver, you can import the data directly into an Excel Spreadsheet and present it as a table. Make sure that you use matching Excel and ODBC Driver, e.g. if you have installed a 64-bit ODBC Drive, you will need to use the 64-bit version of Excel.

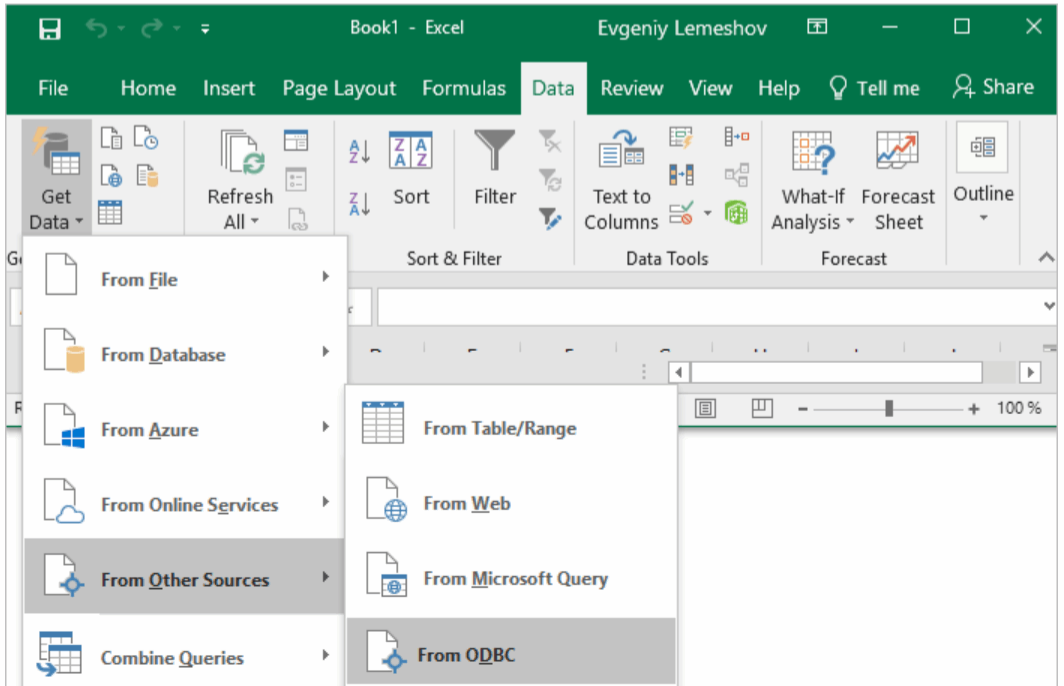
When working with Microsoft Excel, there are different ways of retrieving data from various data sources using our ODBC drivers. Please see the list of sections that will help you to connect Excel to MySQL database:

- Connecting Excel to MySQL with Get & Transform (Power Query)
- Connecting Excel to MySQL with Data Connection Wizard (Legacy Wizard)
- Connecting Excel to MySQL with the Query Wizard
- Connecting Excel to MySQL with Microsoft Query
- Connecting Excel to MySQL with PowerPivot

Connecting Excel to MySQL with Get & Transform (Power Query)

You can use Get & Transform (Power Query) to connect to MySQL from Excel with ODBC. This method assumes that you've installed an ODBC driver for MySQL.

1. Click the **Data** in Excel, then expand the **Get Data** drop-down list. Click **From Other Sources > From ODBC**.



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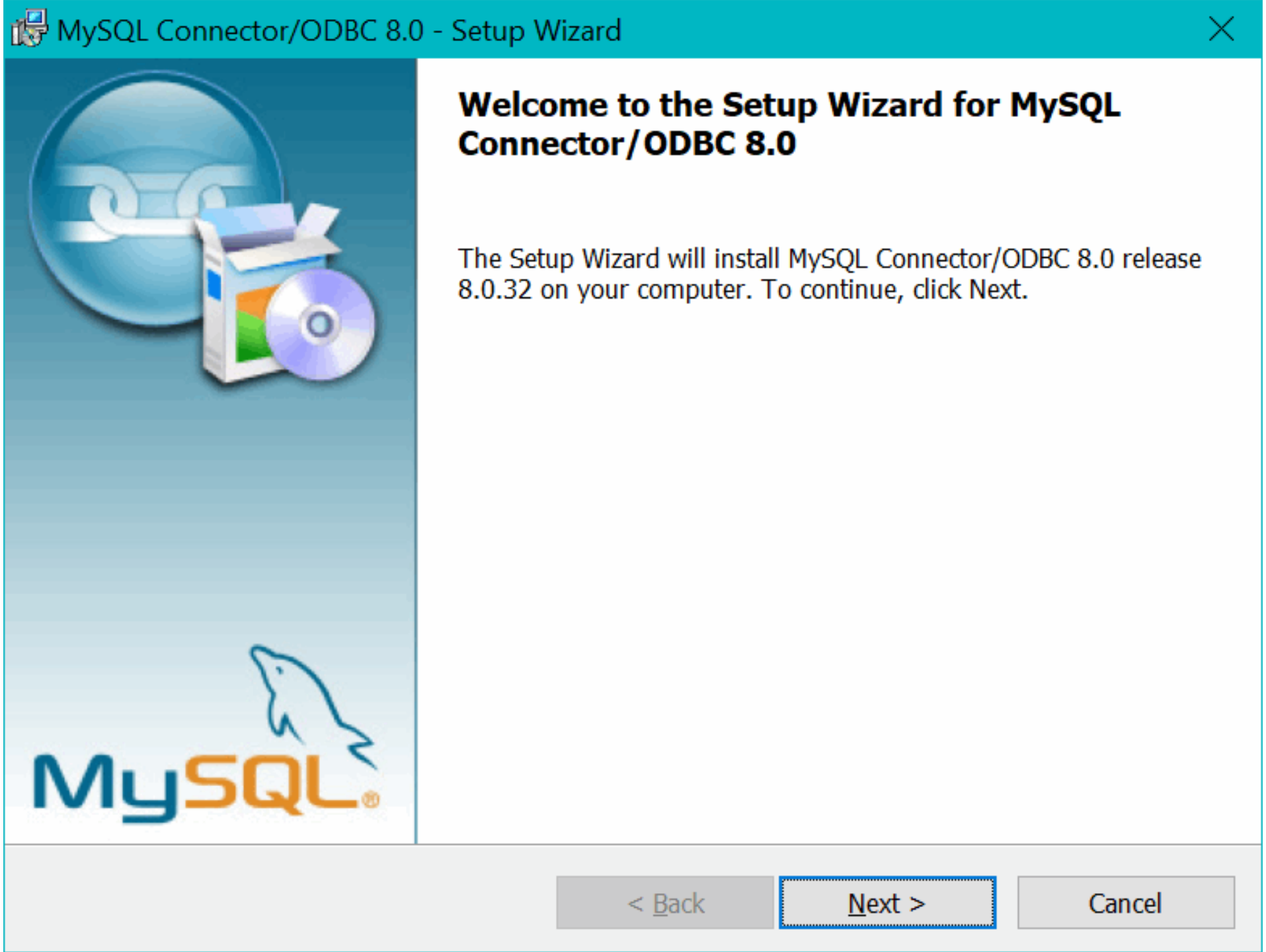
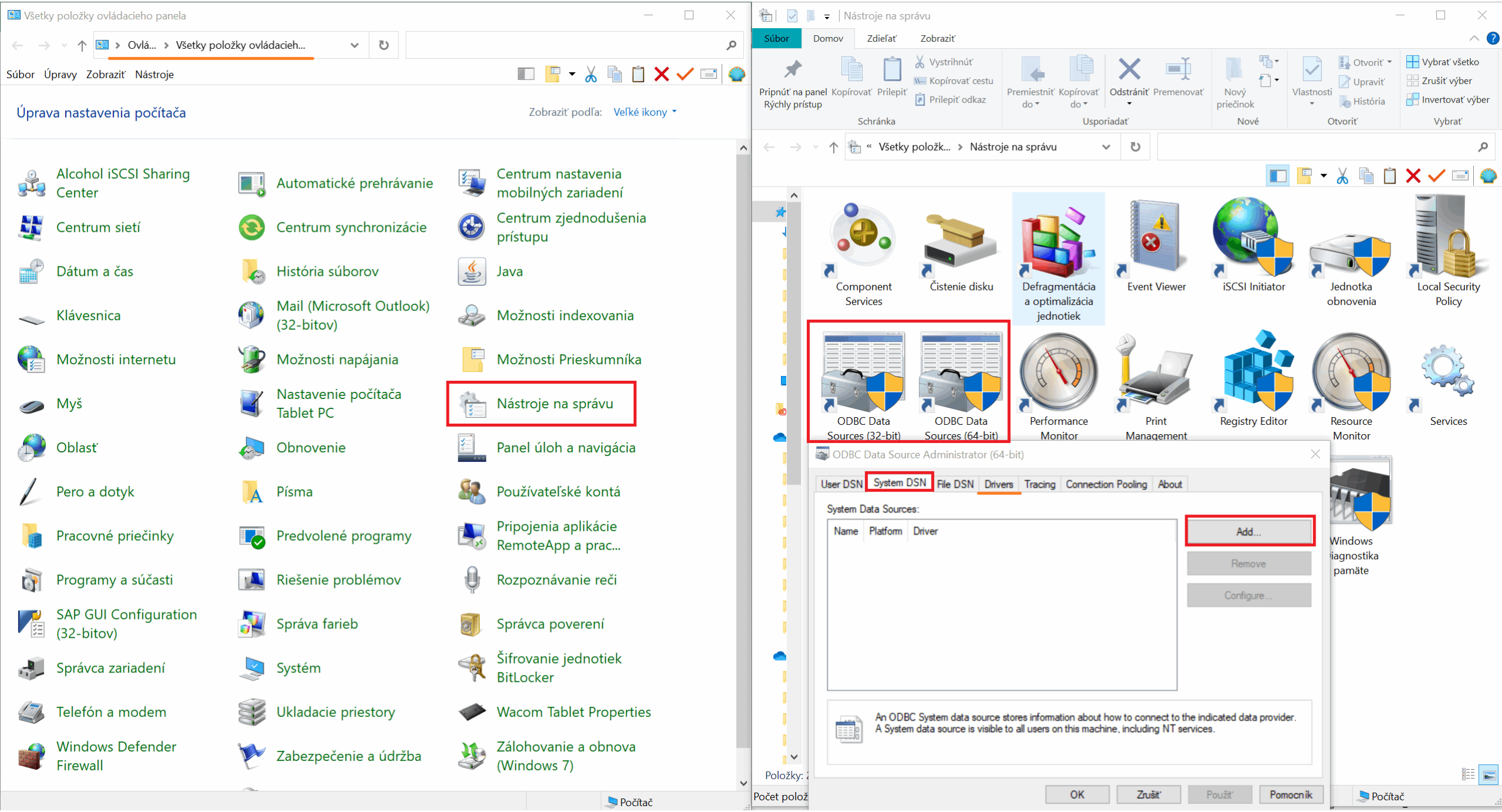

MySQL Connector/ODBC 8.0 - Setup Wizard
Welcome to the Setup Wizard for MySQL Connector/ODBC 8.0
The Setup Wizard will install MySQL Connector/ODBC 8.0 release 8.0.32 on your computer. To continue, click Next.
MySQL
< Back
Next >
Cancel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Dátum a čas
História súborov
Java
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Možnosti napájania
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Riešenie problémov
Rozpoznávanie reči
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Správca zariadení
Systém
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Telefón a modem
Ukladacie priestory
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Zabezpečenie a údržba
Zálohovanie a obnova (Windows 7)
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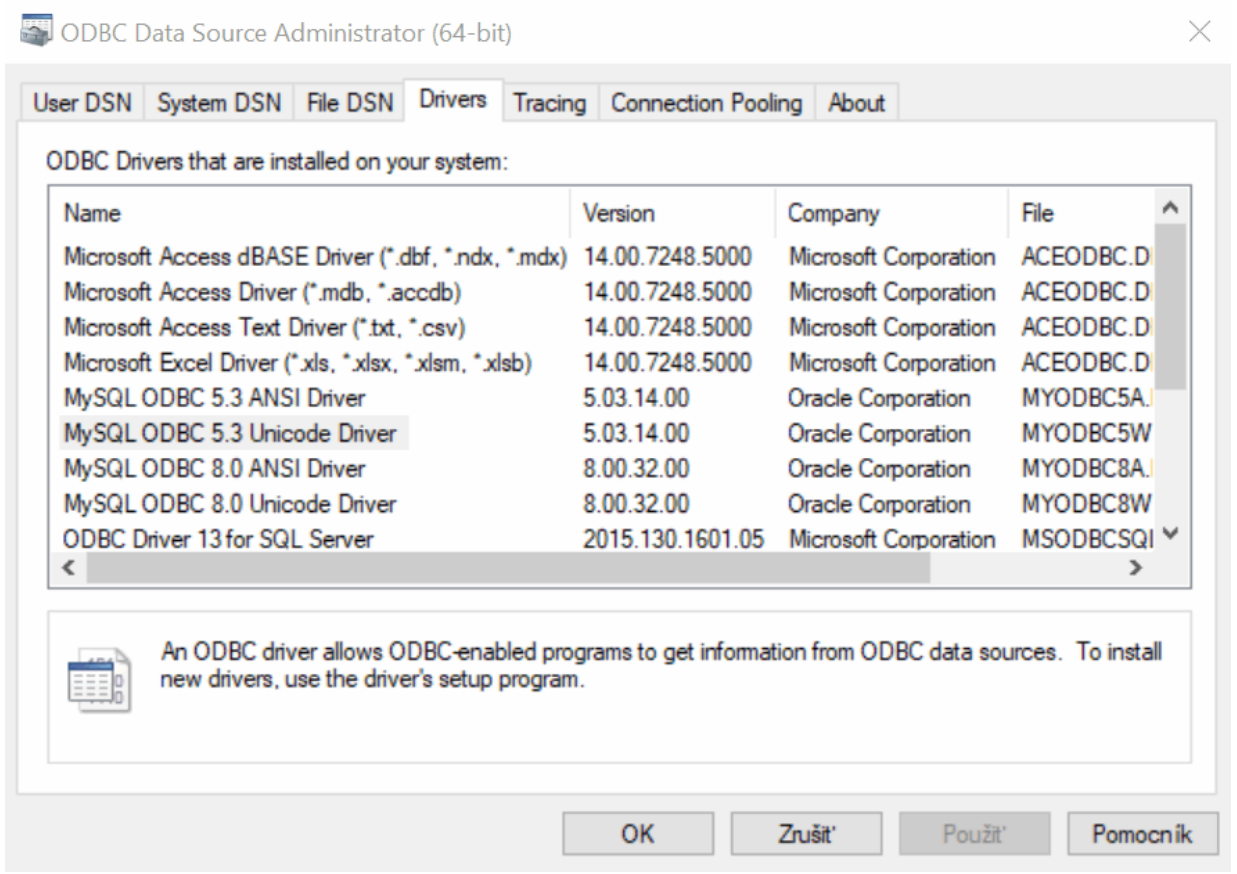
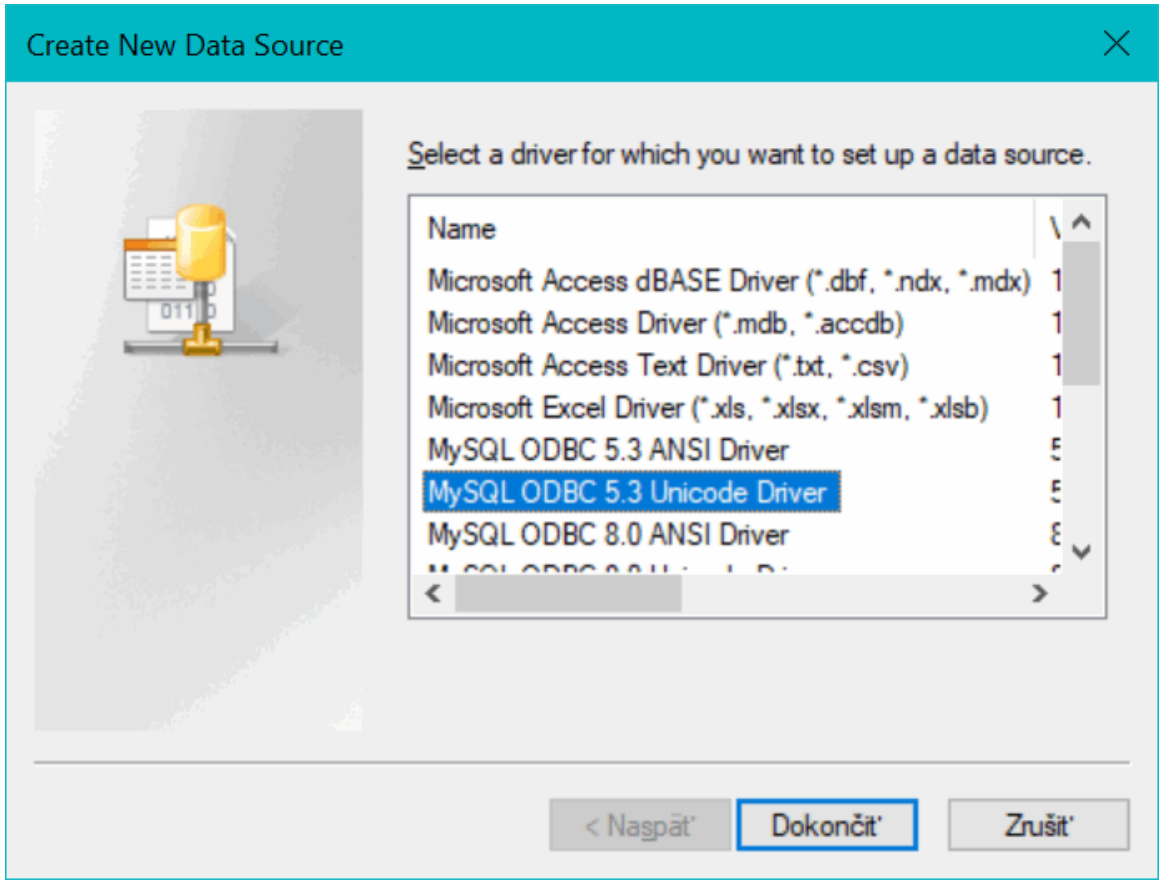
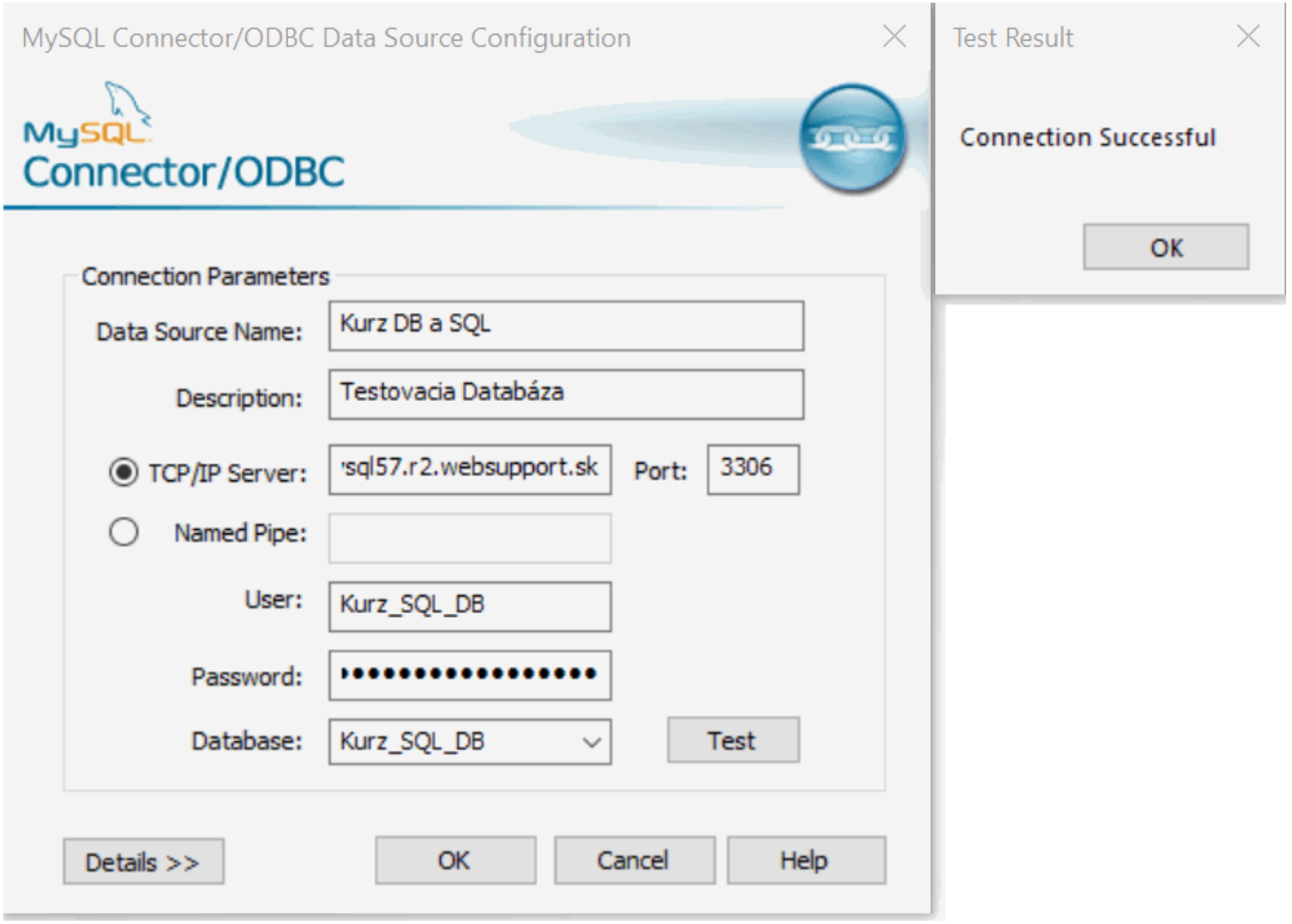
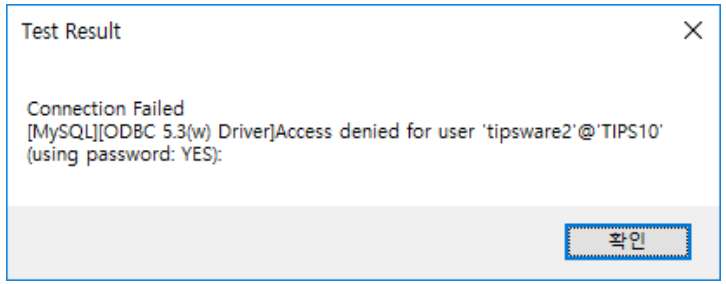
Component Services
Čistenie disku
Defragmentácia a optimalizácia jednotiek
Event Viewer
iSCSI Initiator
Jednotka obnovenia
Local Security Policy
ODBC Data Sources (32-bit)
ODBC Data Sources (64-bit)
Performance Monitor
Print Management
Registry Editor
Resource Monitor
Services
Windows Memory Diagnostika pamäte
ODBC Data Source Administrator (64-bit)
User DSN System DSN File DSN Drivers Tracing Connection Pooling About
System Data Sources:
Name Platform Driver
Add...
Remove
Configure...
An ODBC System data source stores information about how to connect to the indicated data provider.
A System data source is visible to all users on this machine, including NT services.
OK Zrušiť Použiť Pomocník
Počítač

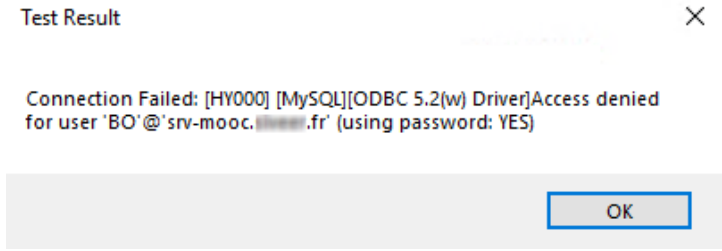
Kontrola Drivera

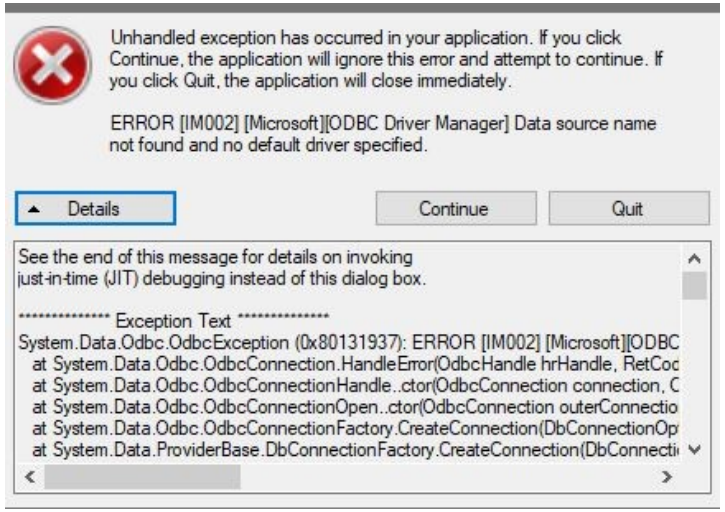


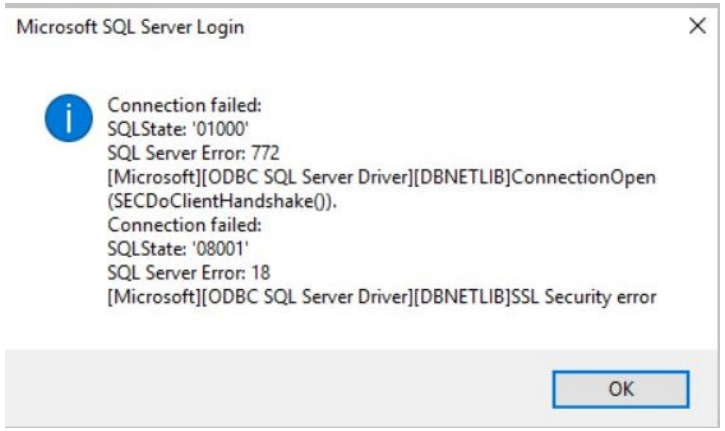


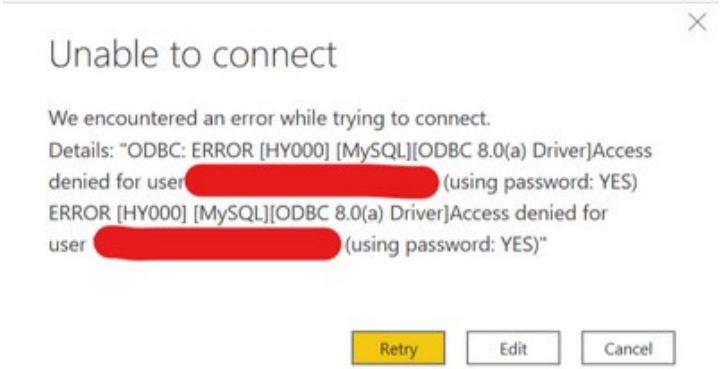

MySQL Connector/ODBC Data Source Configuration
MySQL
Connector/ODBC
Connection Parameters
Data Source Name:
Kurz DB a SQL
Description:
Testovacia Databáza
TCP/IP Server:
sql57.r2.websupport.sk
Port:
3306
Named Pipe:
User:
Kurz_SQL_DB
Password:
Database:
Kurz_SQL_DB
Test
Details >>
OK
Cancel
Help
Test Result
Connection Successful
OK

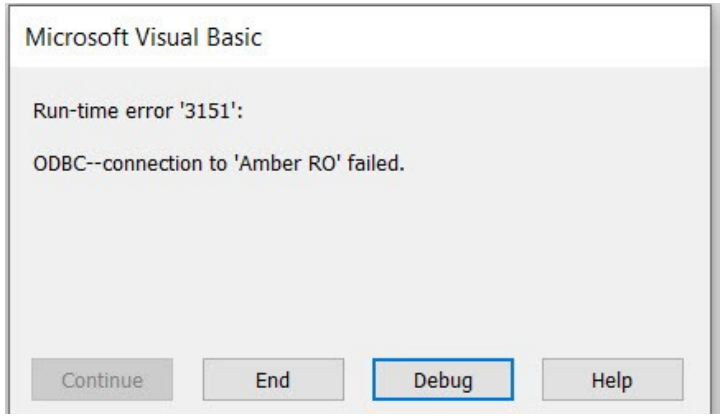

Test Result
Connection Failed
[MySQL][ODBC 5.3(w) Driver]Access denied for user 'tipsware2'@'TIPS10'
(using password: YES):
확인

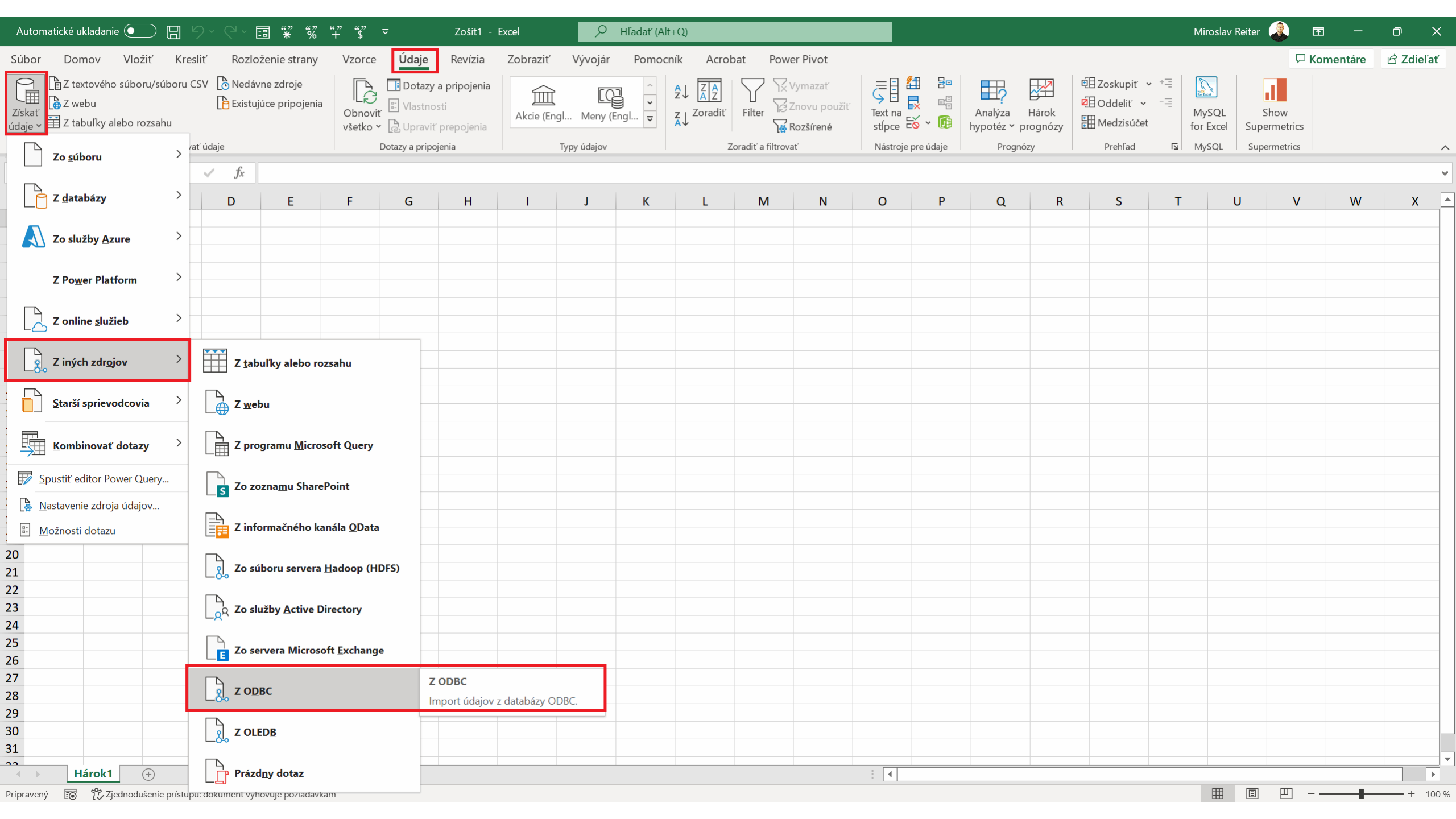

Test Result
Connection Failed: [HY000] [MySQL][ODBC 5.2(w) Driver]Access denied
for user 'BO'@'srv-mooc.[redacted].fr' (using password: YES)
OK


Unhandled exception has occurred in your application. If you click
Continue, the application will ignore this error and attempt to continue. If
you click Quit, the application will close immediately.
ERROR [IM002] [Microsoft][ODBC Driver Manager] Data source name
not found and no default driver specified.
Details
Continue
Quit
See the end of this message for details on invoking
just-in-time (JIT) debugging instead of this dialog box.
********** Exception Text **********
System.Data.Odbc.OdbcException (0x80131937): ERROR [IM002] [Microsoft][ODBC
at System.Data.Odbc.OdbcConnection.HandleError(OdbcHandle hrHandle, RetCoc
at System.Data.Odbc.OdbcConnectionHandle..ctor(OdbcConnection connection, C
at System.Data.Odbc.OdbcConnectionOpen..ctor(OdbcConnection outerConnectio
at System.Data.Odbc.OdbcConnectionFactory.CreateConnection(DbConnectionOp
at System.Data.ProviderBase.DbConnectionFactory.CreateConnection(DbConnecti


Microsoft SQL Server Login
Connection failed:
SQLState: '01000'
SQL Server Error: 772
[Microsoft][ODBC SQL Server Driver][DBNETLIB]ConnectionOpen
(SECDoClientHandshake()).
Connection failed:
SQLState: '08001'
SQL Server Error: 18
[Microsoft][ODBC SQL Server Driver][DBNETLIB]SSL Security error
OK


Unable to connect
We encountered an error while trying to connect.
Details: "ODBC: ERROR [HY000] [MySQL][ODBC 8.0(a) Driver]Access
denied for user [redacted] (using password: YES)
ERROR [HY000] [MySQL][ODBC 8.0(a) Driver]Access denied for
user [redacted] (using password: YES)"
Retry
Edit
Cancel


Microsoft Visual Basic
Run-time error '3151':
ODBC--connection to 'Amber RO' failed.
Continue
End
Debug
Help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Vývojár
Pomocník
Acrobat
Power Pivot
Komentáre
Zdieľať
Získať údaje
Z textového súboru/súboru CSV
Z webu
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Filter
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MySQL
Show Supermetrics
Supermetrics
Zo súboru
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Spustiť editor Power Query...
Nastavenie zdroja údajov...
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Z programu Microsoft Query
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Import údajov z databázy ODBC.
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Príklad: Driv...

Príkaz SQL (voliteľné)

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  - Introduction to MySQL Connector/ODBC
  - Connector/ODBC Versions
  - General Information About ODBC and Connector/ODBC
  - Connector/ODBC Installation
  - Configuring Connector/ODBC
  - Connector/ODBC Examples
    - Basic Connector/ODBC Application Steps
    - Step-by-step Guide to Connecting to a MySQL Database through Connector/ODBC
    - Connector/ODBC and Third-Party ODBC Tools
    - Using Connector/ODBC with Microsoft Access
    - **Using Connector/ODBC with**

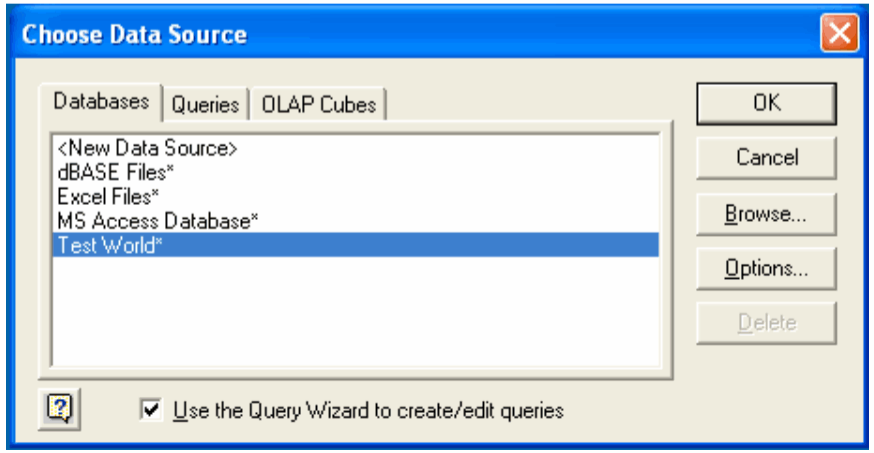
5.6.5 Using Connector/ODBC with Microsoft Word or Excel

You can use Microsoft Word and Microsoft Excel to access information from a MySQL database using Connector/ODBC. Within Microsoft Word, this facility is most useful when importing data for mailmerge, or for tables and data to be included in reports. Within Microsoft Excel, you can execute queries on your MySQL server and import the data directly into an Excel Worksheet, presenting the data as a series of rows and columns.

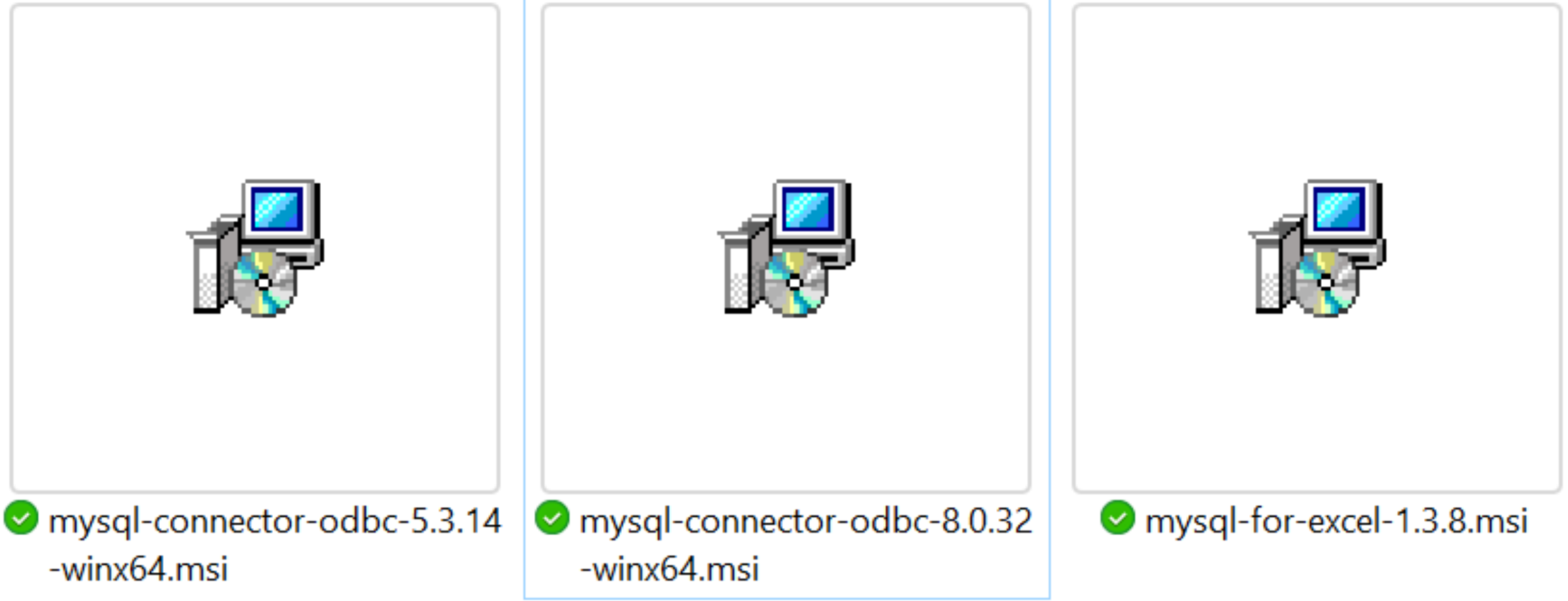
With both applications, data is accessed and imported into the application using Microsoft Query, which lets you execute a query though an ODBC source. You use Microsoft Query to build the SQL statement to be executed, selecting the tables, fields, selection criteria and sort order. For example, to insert information from a table in the World test database into an Excel spreadsheet, using the DSN samples shown in Section 5.5, “Configuring Connector/ODBC”:

1. Create a new Worksheet.
2. From the `Data` menu, choose `Import External Data`, and then select `New Database Query`.
3. Microsoft Query will start. First, you need to choose the data source, by selecting an existing Data Source Name.

Figure 5.30 Microsoft Query Wizard: Choose Data Source Dialog



Inštalátory MySQL ODBC



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- Connecting Excel to MySQL with PowerPivot

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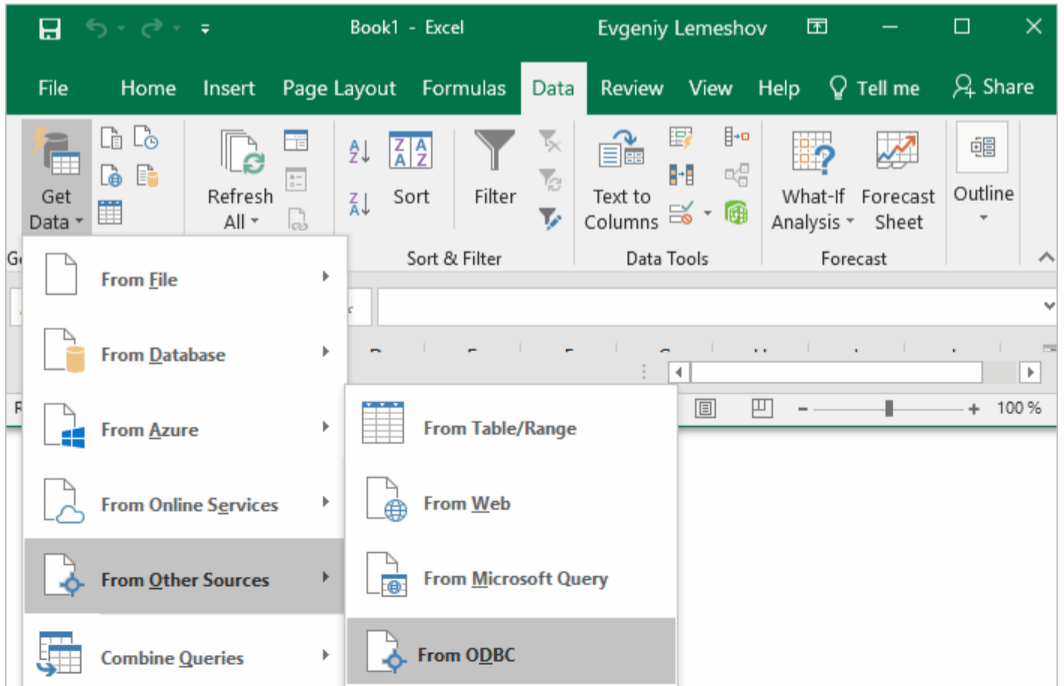
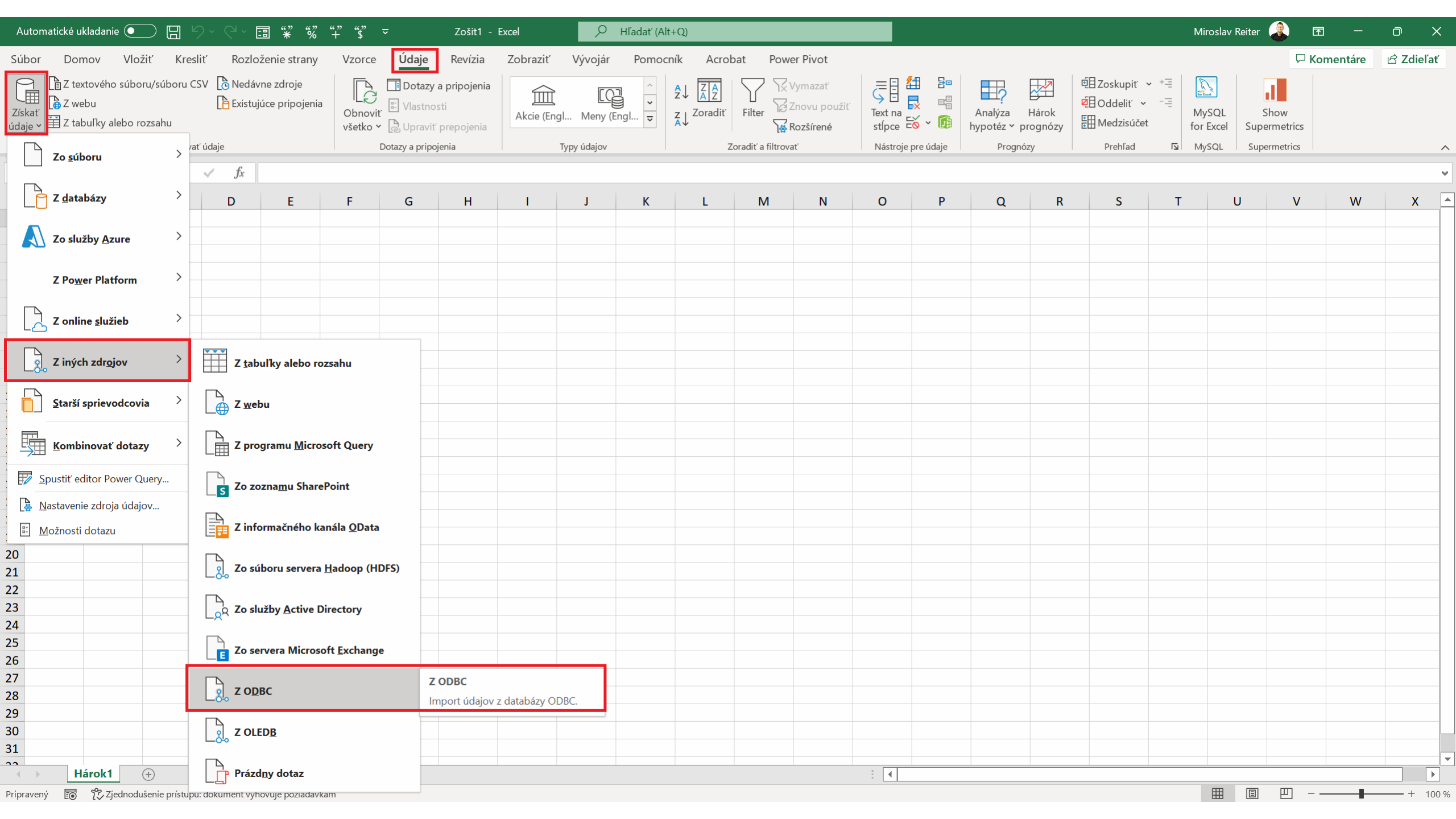
You can use Get & Transform (Power Query) to connect to MySQL from Excel with ODBC. This method assumes that you've installed an ODBC driver for MySQL.

1. Click the **Data** in Excel, then expand the **Get Data** drop-down list. Click **From Other Sources > From ODBC**.

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Zo servera Microsoft Exchange
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MySQL for Excel (Archived Versions)

MySQL for Excel is now covered under Oracle Lifetime Sustaining Support

Per Oracle's Lifetime Support policy, as of Sept 18, 2020, MySQL for Excel is covered under Oracle Sustaining Support. Learn how to connect Excel to MySQL.

Product Version: 1.3.8

Operating System: Microsoft Windows

Windows (x86, 32-bit), MSI Installer	Jun 7, 2019	2.8M	**Download**
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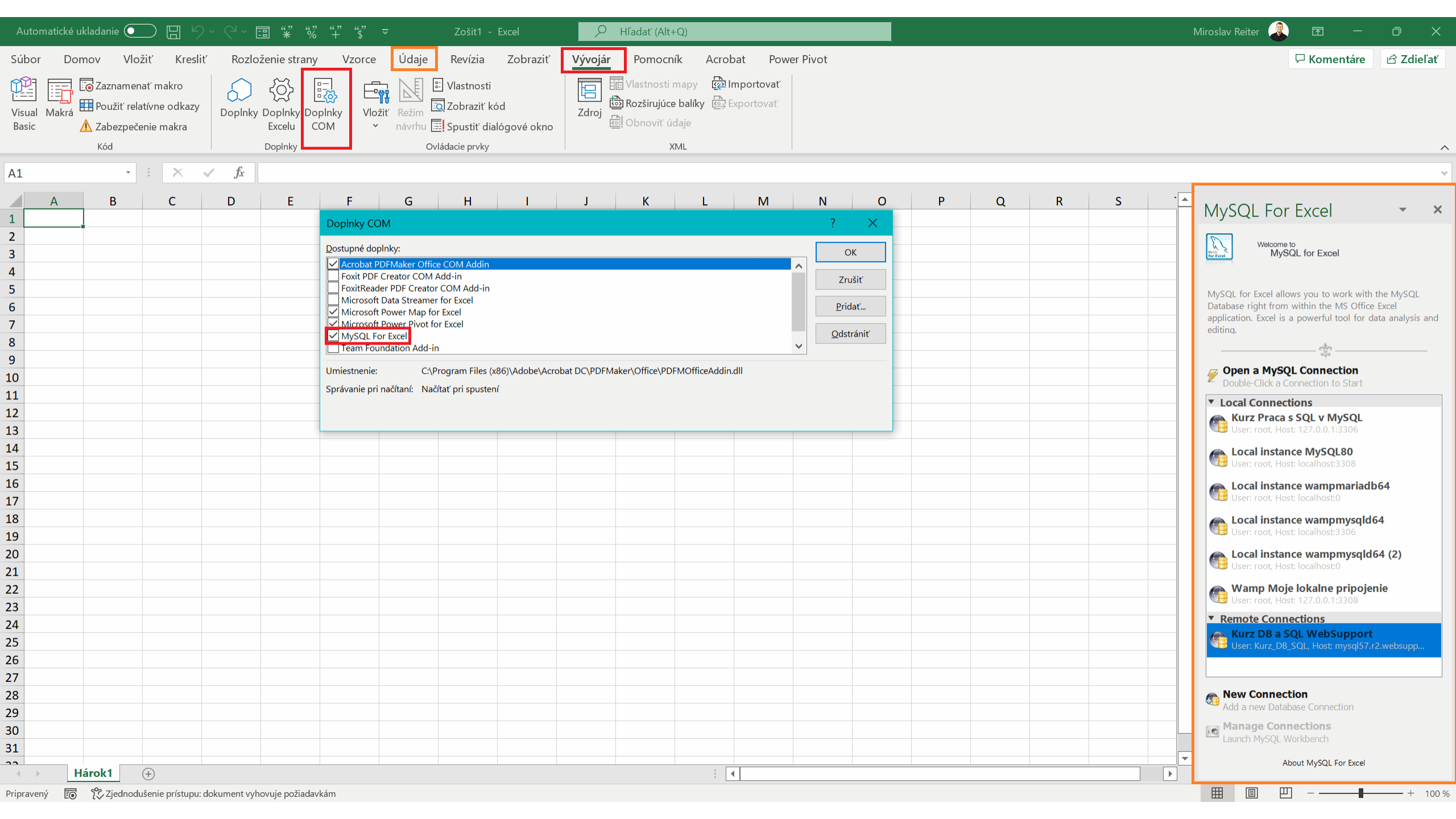
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Doplnky Excelu
Doplnky COM
Doplnky
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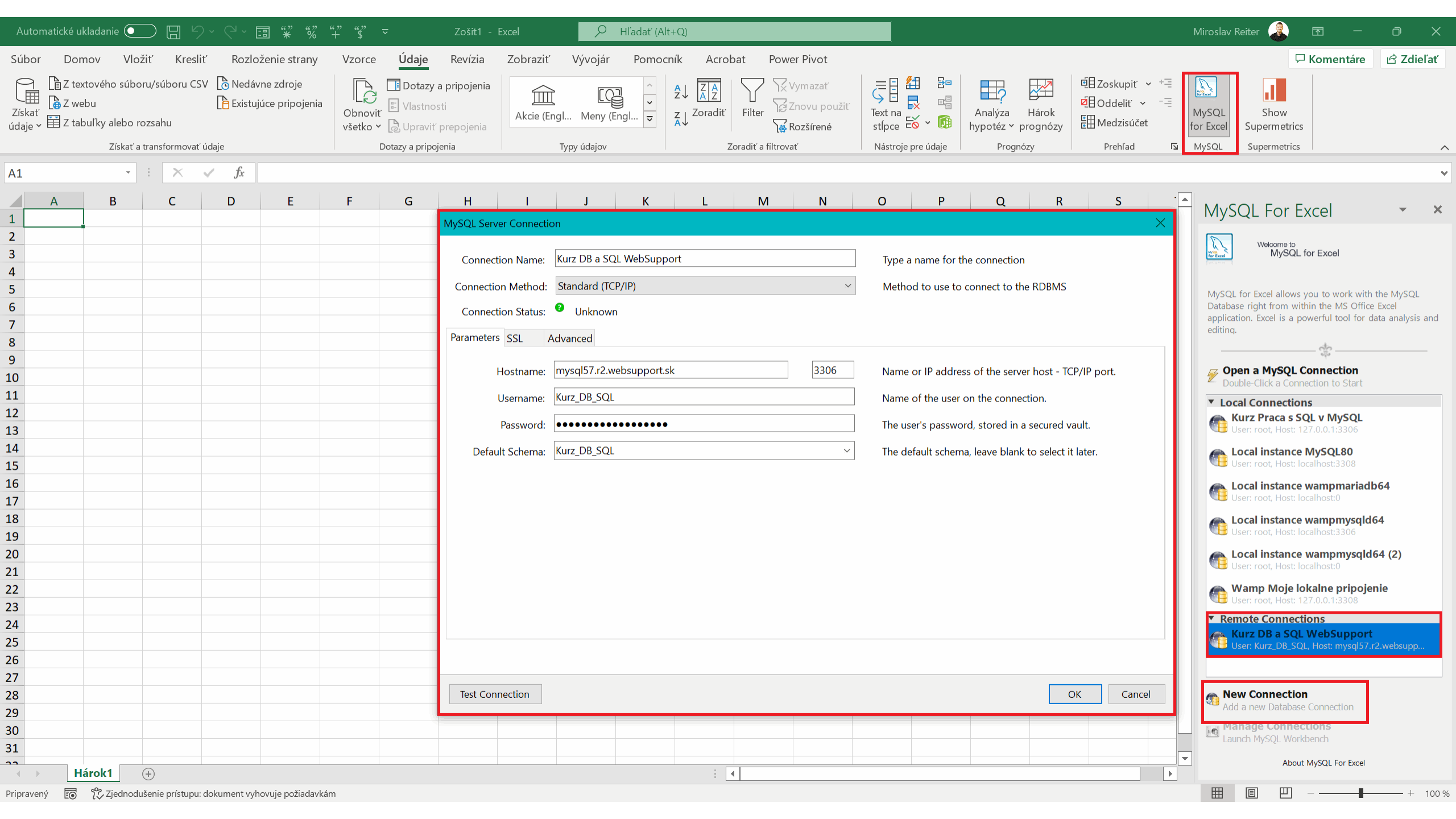
Zobraziť kód
Spustiť dialógové okno
Ovládacie prvky
Zdroj
Vlastnosti mapy
Rozširujúce balíky
Obnoviť údaje
Importovať
Exportovať
XML
A1
Doplnky COM
Dostupné doplnky:
Acrobat PDFMaker Office COM Addin
Foxit PDF Creator COM Add-in
FoxitReader PDF Creator COM Add-in
Microsoft Data Streamer for Excel
Microsoft Power Map for Excel
Microsoft Power Pivot for Excel
MySQL For Excel
Team Foundation Add-in
OK
Zrušiť
Pridať...
Odstrániť
Umiestnenie: C:\Program Files (x86)\Adobe\Acrobat DC\PDFMaker\Office\PDFMOfficeAddin.dll
Správanie pri načítaní: Načítať pri spustení
MySQL For Excel
Welcome to MySQL for Excel
MySQL for Excel allows you to work with the MySQL Database right from within the MS Office Excel application. Excel is a powerful tool for data analysis and editing.
Open a MySQL Connection
Double-Click a Connection to Start
Local Connections
Kurz Praca s SQL v MySQL
User: root, Host: 127.0.0.1:3306
Local instance MySQL80
User: root, Host: localhost:3308
Local instance wampmariadb64
User: root, Host: localhost:0
Local instance wampmysqld64
User: root, Host: localhost:3306
Local instance wampmysqld64 (2)
User: root, Host: localhost:0
Wamp Moje lokalne pripojenie
User: root, Host: 127.0.0.1:3308
Remote Connections
Kurz DB a SQL WebSupport
User: Kurz_DB_SQL, Host: mysql57.r2.websupp...
New Connection
Add a new Database Connection
Manage Connections
Launch MySQL Workbench
About MySQL For Excel
Hárok1
Pripravený
Zjednodušenie prístupu: dokument vyhovuje požiadavkám
100 %


Automatické ukladanie
Zošit1 - Excel
Hľadať (Alt+Q)
Miroslav Reiter
Súbor Domov Vložiť Kresliť Rozloženie strany Vzorce Údaje Revízia Zobraziť Vývojár Pomocník Acrobat Power Pivot
Komentáre Zdieľať
Získať údaje
Z textového súboru/súboru CSV
Z webu
Z tabuľky alebo rozsahu
Nedávne zdroje
Existujúce pripojenia
Získať a transformovať údaje
Obnoviť všetko
Dotazy a pripojenia
Vlastnosti
Upraviť prepojenia
Dotazy a pripojenia
Akcie (Engl...
Meny (Engl...
Typy údajov
Zoradiť
Filter
Vymazať
Znovu použiť
Rozšírené
Zoradiť a filtrovať
Text na stĺpce
Nástroje pre údaje
Analýza hypotéz
Hárok prognózy
Prognózy
Zoskupiť
Oddeliť
Medzisúčet
Prehľad
MySQL for Excel
MySQL
Show Supermetrics
Supermetrics
A1
MySQL Server Connection
Connection Name: Kurz DB a SQL WebSupport
Type a name for the connection
Connection Method: Standard (TCP/IP)
Method to use to connect to the RDBMS
Connection Status: Unknown
Parameters SSL Advanced
Hostname: mysql57.r2.websupport.sk
3306
Name or IP address of the server host - TCP/IP port.
Username: Kurz_DB_SQL
Name of the user on the connection.
Password: ••••••••••••••••••
The user's password, stored in a secured vault.
Default Schema: Kurz_DB_SQL
The default schema, leave blank to select it later.
Test Connection
OK
Cancel
MySQL For Excel
Welcome to MySQL for Excel
MySQL for Excel allows you to work with the MySQL Database right from within the MS Office Excel application. Excel is a powerful tool for data analysis and editing.
Open a MySQL Connection
Double-Click a Connection to Start
Local Connections
Kurz Praca s SQL v MySQL
User: root, Host: 127.0.0.1:3306
Local instance MySQL80
User: root, Host: localhost:3308
Local instance wampmariadb64
User: root, Host: localhost:0
Local instance wampmysqld64
User: root, Host: localhost:3306
Local instance wampmysqld64 (2)
User: root, Host: localhost:0
Wamp Moje lokalne pripojenie
User: root, Host: 127.0.0.1:3308
Remote Connections
Kurz DB a SQL WebSupport
User: Kurz_DB_SQL, Host: mysql57.r2.websupp...
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100 %

Manažovanie Tabuliek

```sql
CREATE TABLE t (
    id INT PRIMARY KEY,
    name VARCHAR NOT NULL,
    price INT DEFAULT 0
);
```
Create a new table with three columns

```sql
DROP TABLE t ;
```
Delete the table from the database

```sql
ALTER TABLE t ADD column;
```
Add a new column to the table

```sql
ALTER TABLE t DROP COLUMN c ;
```
Drop column c from the table

```sql
ALTER TABLE t ADD constraint;
```
Add a constraint

```sql
ALTER TABLE t DROP constraint;
```
Drop a constraint

```sql
ALTER TABLE t1 RENAME TO t2;
```
Rename a table from t1 to t2

```sql
ALTER TABLE t1 RENAME c1 TO c2 ;
```
Rename column c1 to c2

```sql
TRUNCATE TABLE t;
```
Remove all data in a table

SQL Constraints

```sql
CREATE TABLE t(
    c1 INT, c2 INT, c3 VARCHAR,
    PRIMARY KEY (c1,c2)
);
```

Set c1 and c2 as a primary key

```sql
CREATE TABLE t1(
c1 INT PRIMARY KEY,
c2 INT,
FOREIGN KEY (c2) REFERENCES t2(c2)
);
```

Set c2 column as a foreign key

```sql
CREATE TABLE t(
c1 INT, c1 INT,
UNIQUE(c2,c3)
);
```

Make the values in c1 and c2 unique

```sql
CREATE TABLE t(
c1 INT, c2 INT,
CHECK(c1> 0 AND c1 >= c2)
);
```

Ensure c1 > 0 and values in c1 >= c2

```sql
CREATE TABLE t(
c1 INT PRIMARY KEY,
c2 VARCHAR NOT NULL
);
```

Set values in c2 column not NULL

Výber Dát (Select) z Tabuľky

```
SELECT c1, c2 FROM t;
```
Query Data In Columns C1, C2 From A Table

```
SELECT * FROM t;
```
Query All Rows And Columns From A Table

```
SELECT c1, c2 FROM t
WHERE condition;
```
Query Data And Filter Rows With A Condition

```
SELECT DISTINCT c1 FROM t
WHERE condition;
```
Query Distinct Rows From A Table

```
SELECT c1, c2 FROM t
ORDER BY c1 ASC [DESC];
```
Sort The Result Set In Ascending Or Descending Order

```
SELECT c1, c2 FROM t
ORDER BY c1
LIMIT n OFFSET offset;
```
Skip Offset Of Rows And Return The Next N Rows

```
SELECT c1, aggregate(c2)
FROM t
GROUP BY c1;
```
Group Rows Using An Aggregate Function

```
SELECT c1, aggregate(c2)
FROM t
GROUP BY c1
```