

PHP (Database-ODBC)

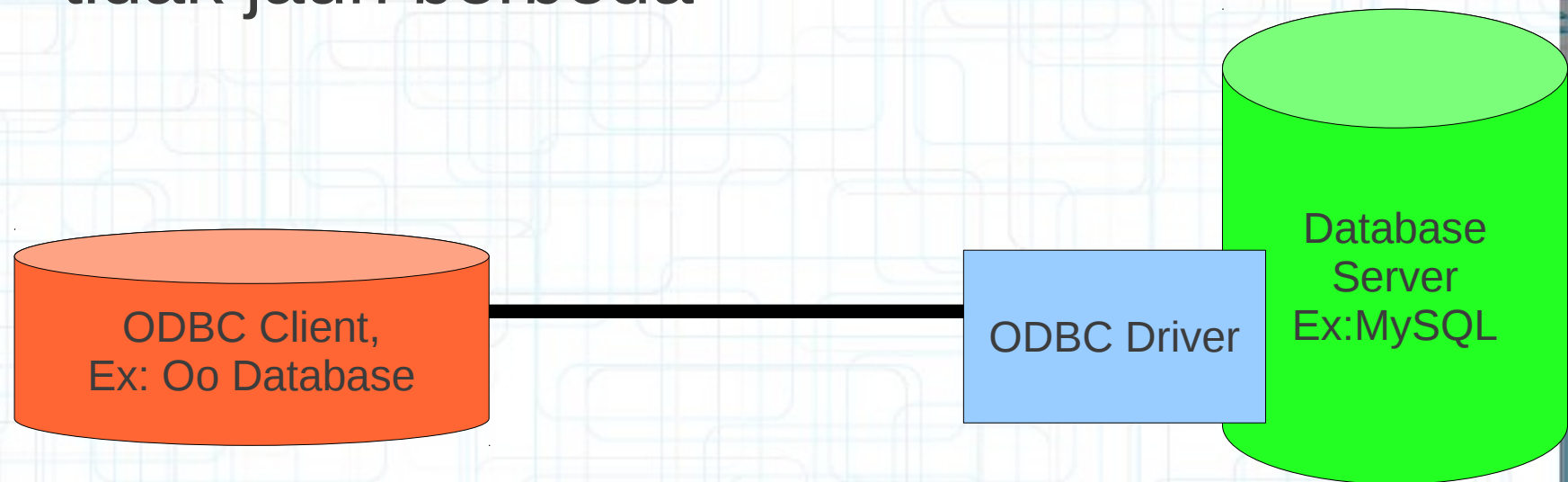
ODBC

- PHP has built in function to manage ODBC
- Open Database Connectivity, diperkenalkan oleh Microsoft
- Interface for accessing data in a heterogeneous environment of relational and non- relational database management systems.
- Standart to connect to several databases

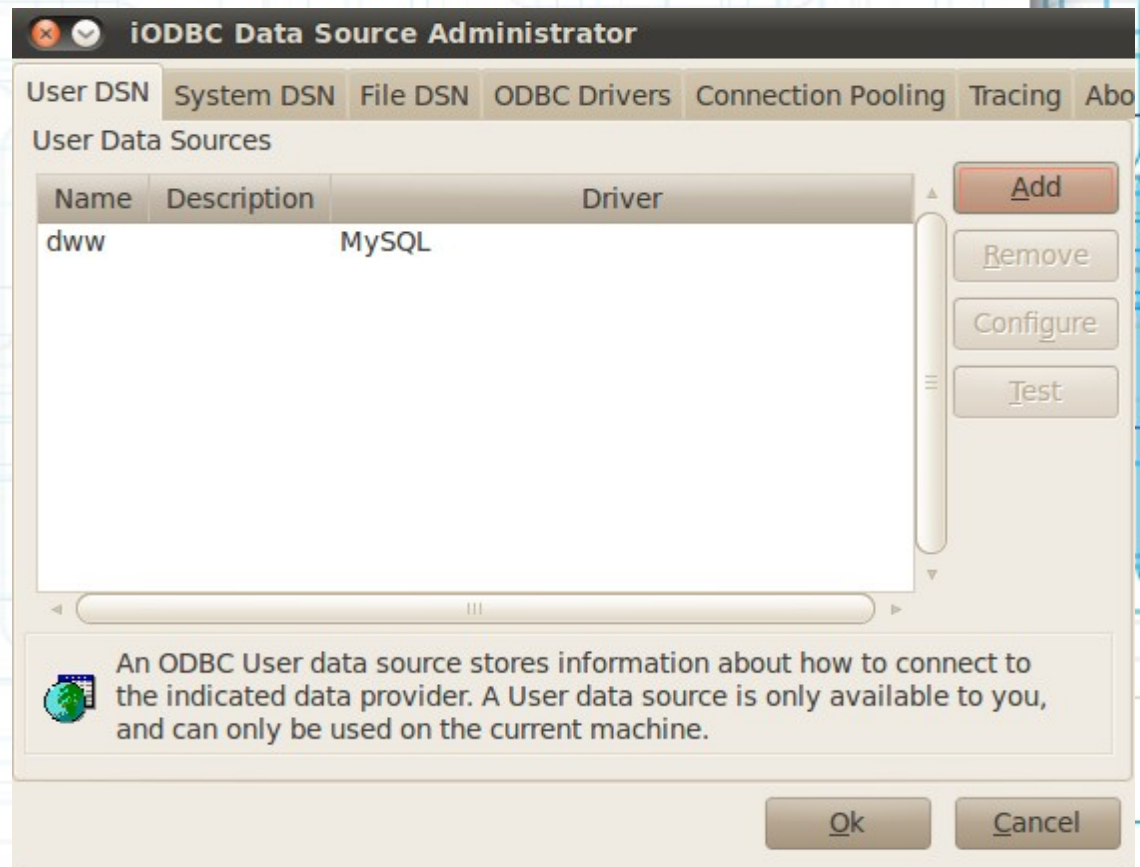
- ODBC bisa sebagai "front-end" or "client" desktop application,
- also known as an "ODBC Client."
- This is the application that the computer-user sees on the computer screen.
- Ex: Microsoft Access, OpenOffice Database

- ODBC Driver for a "back-end" or "server" DBMS (Database Management System).
- This server application is usually more robust (faster, with centralized security, and backups of data, and so forth) than the client application.
- The ODBC Driver resides between the ODBC Client and the DBMS
- However, it is loaded on the front-end computer. Ex: Microsoft ODBC Driver Pack, MySQL ODBC driver

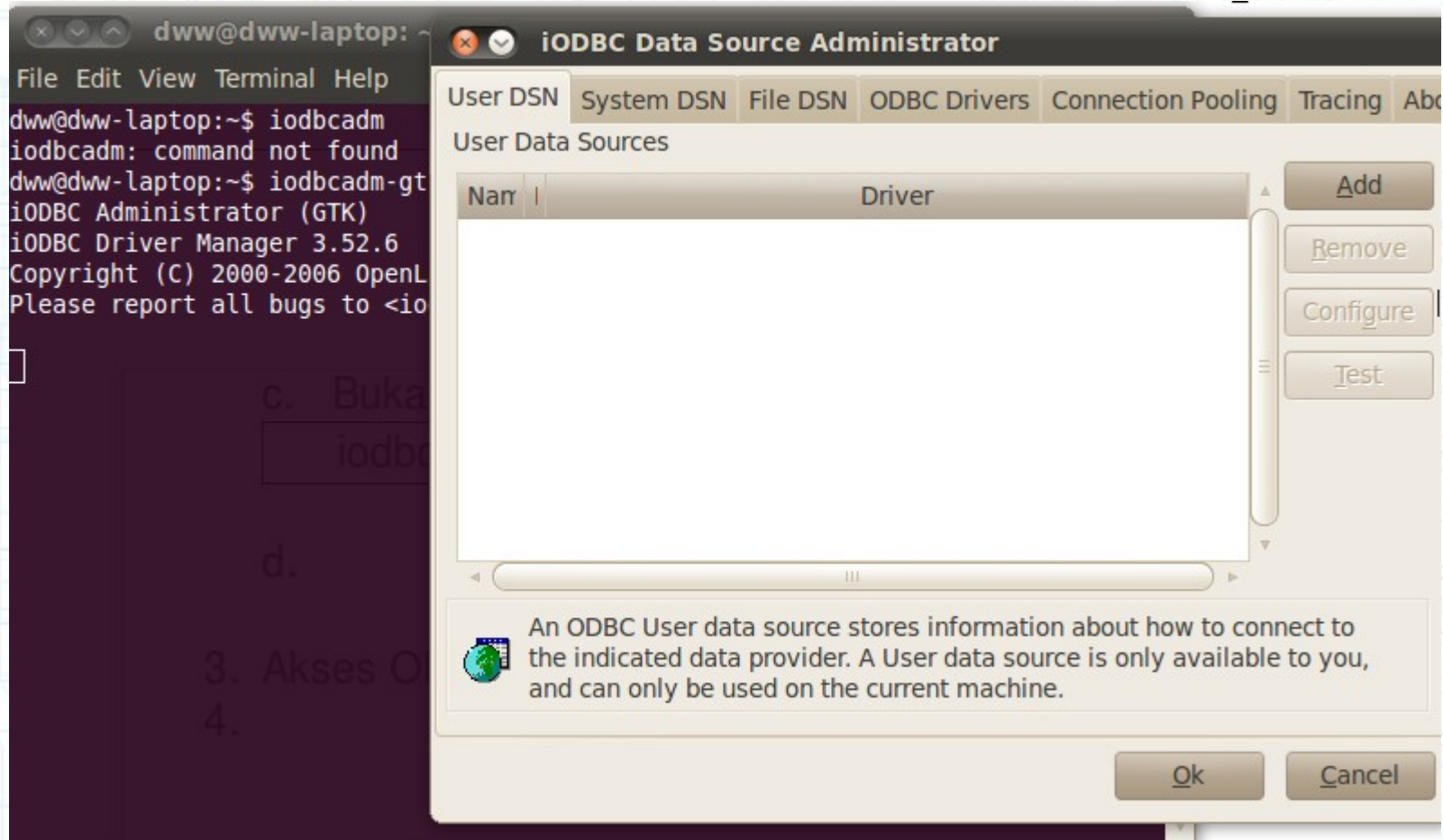
- Secara sederhana, ODBC front-end terhubung ke DB Server melalui ODBC back-end
- Berikut contoh ODBC Client Oo Database, ODBC Driver untuk MySQL
- Untuk Ms.Access, ODBC Driver untuk MySQL tidak jauh berbeda

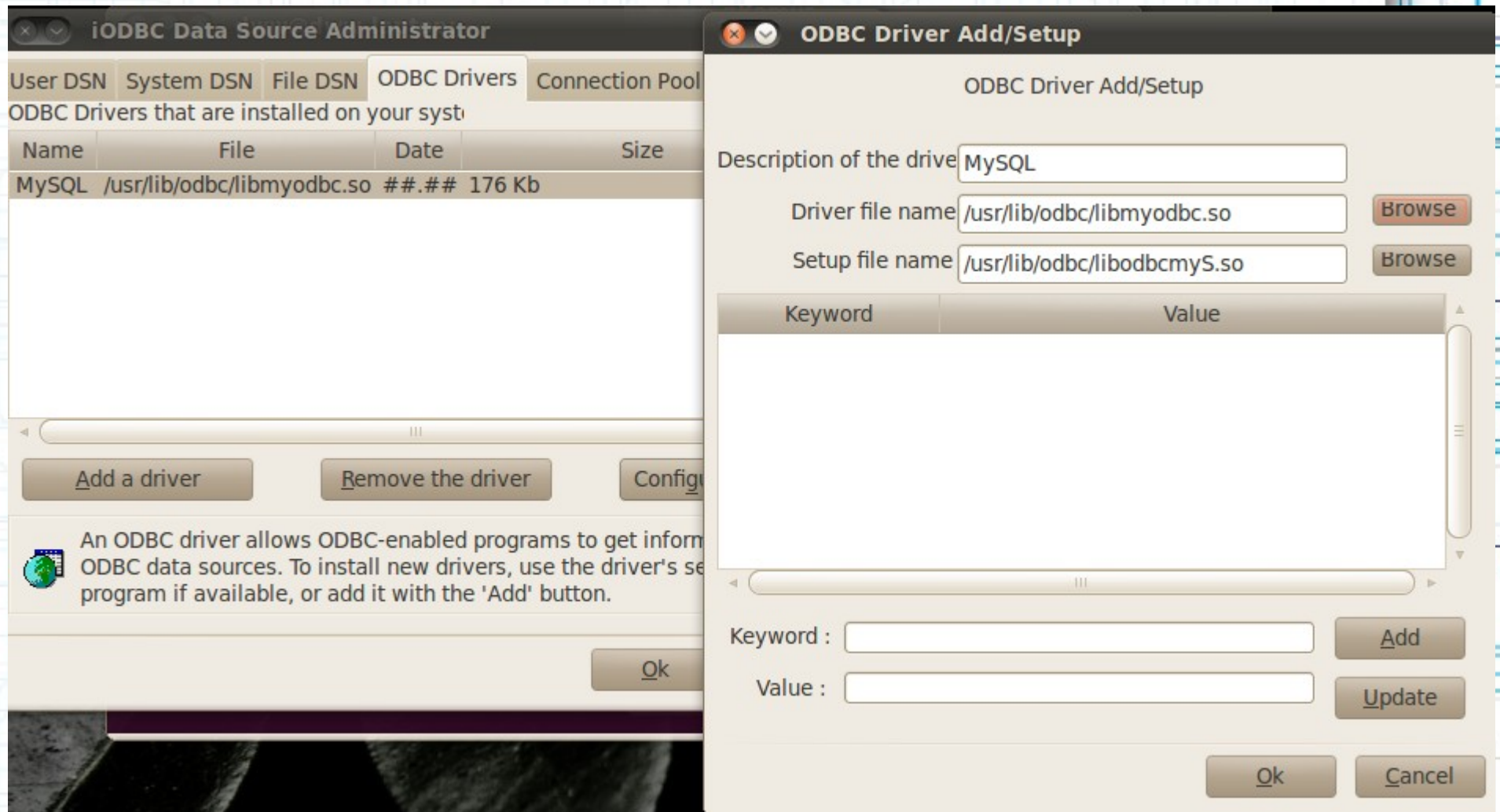


- What we need install the ODBC front-end and back-end
- Depend on platform such as Windows or Ubuntu
- Case in Ubuntu

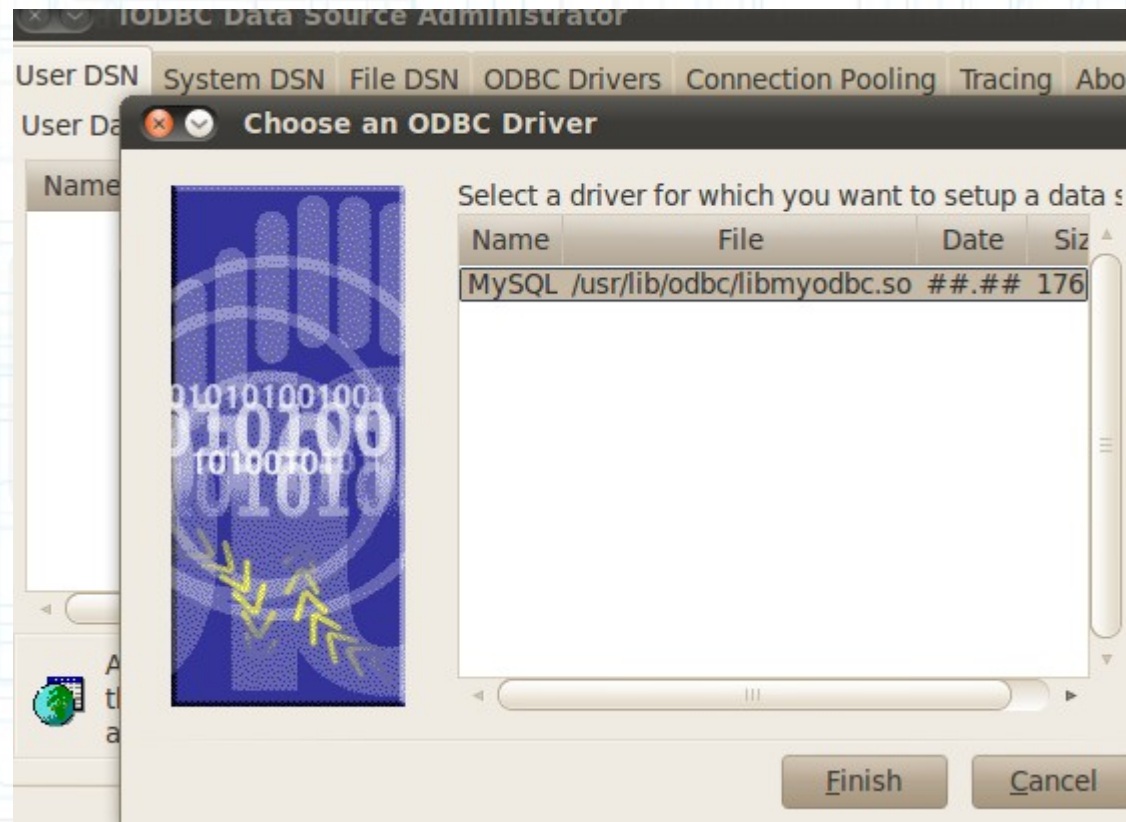


- Configure ...
- For "Driver file name" choose
/usr/lib/odbc/libmyodbc.so
- For "Setup file name" choose
/usr/lib/odbc/libodbcmyS.so
- Configure connection, ex: dww
- Buat odbc-database dari ODBC front-end

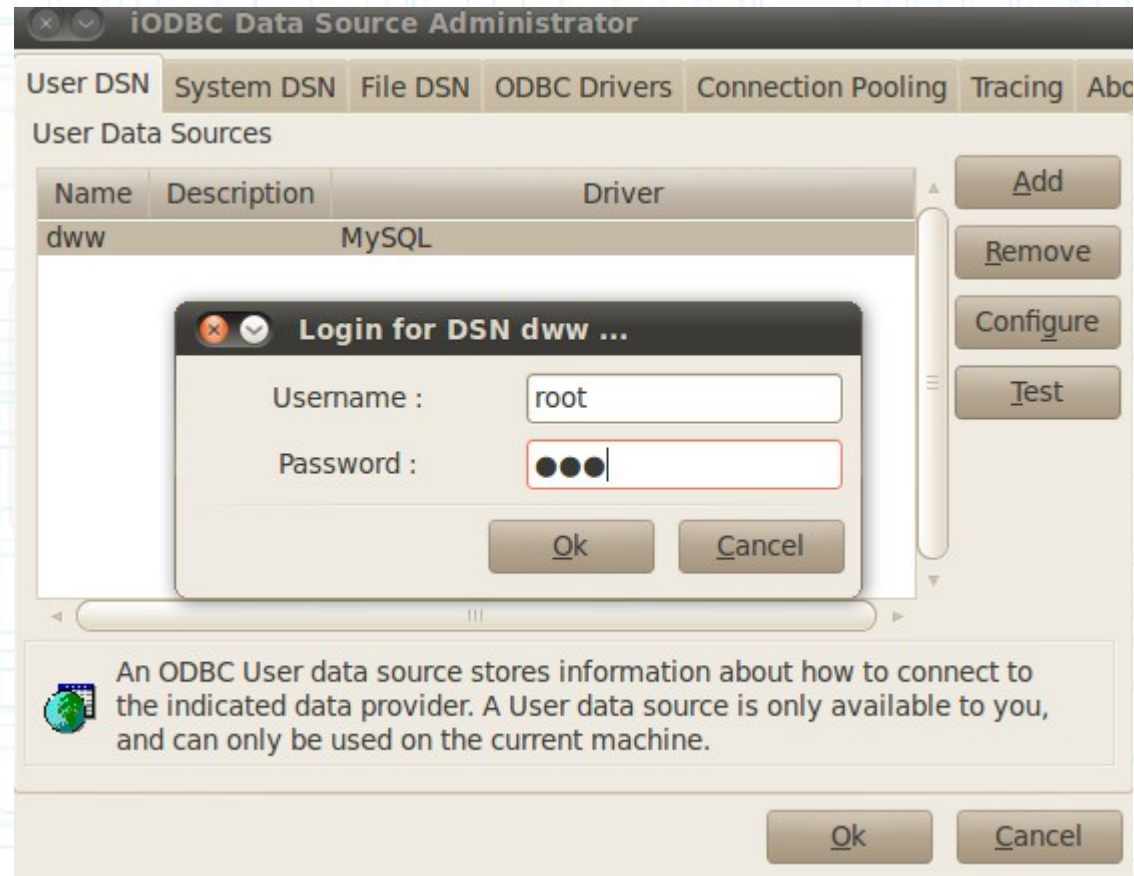




Tambahkan user baru DSN

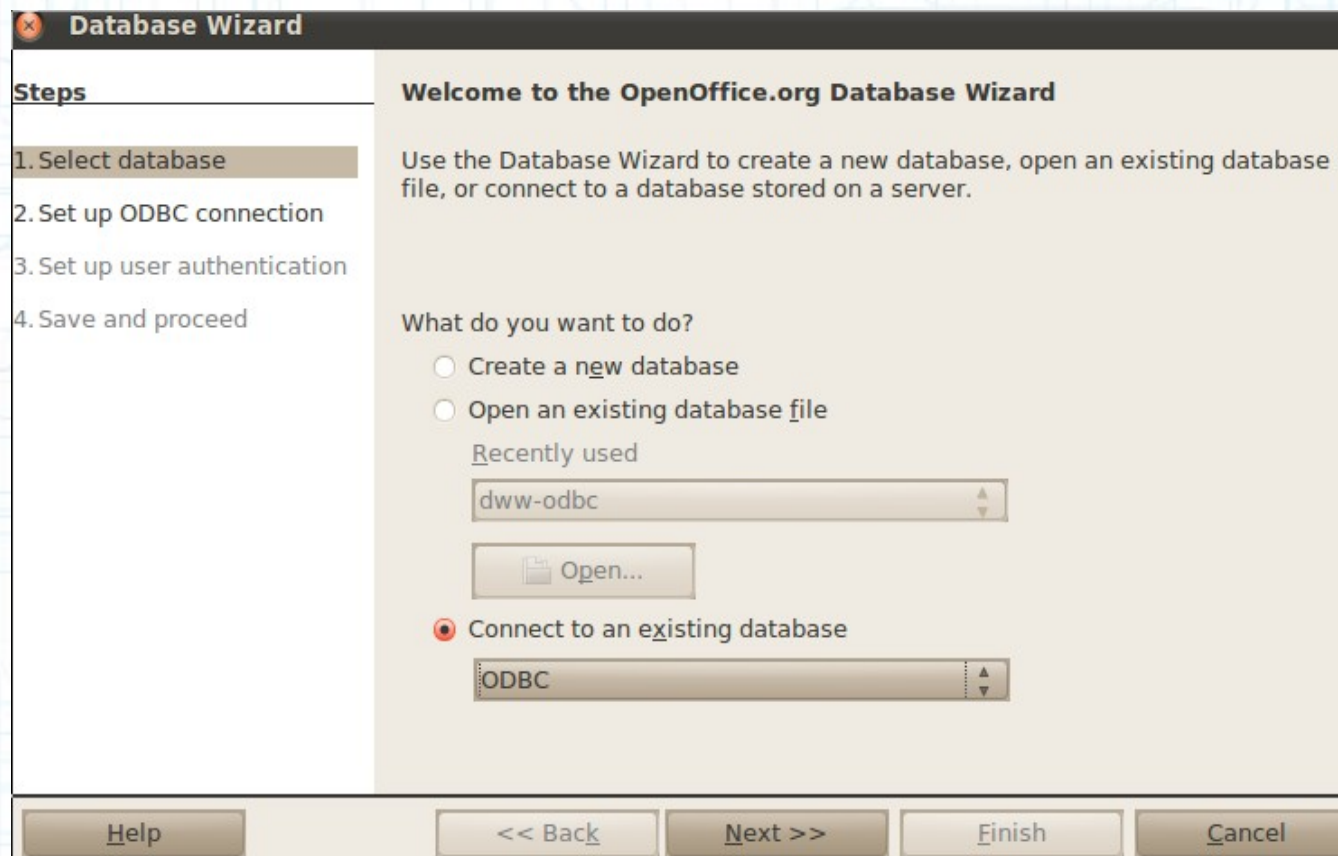


koneksi

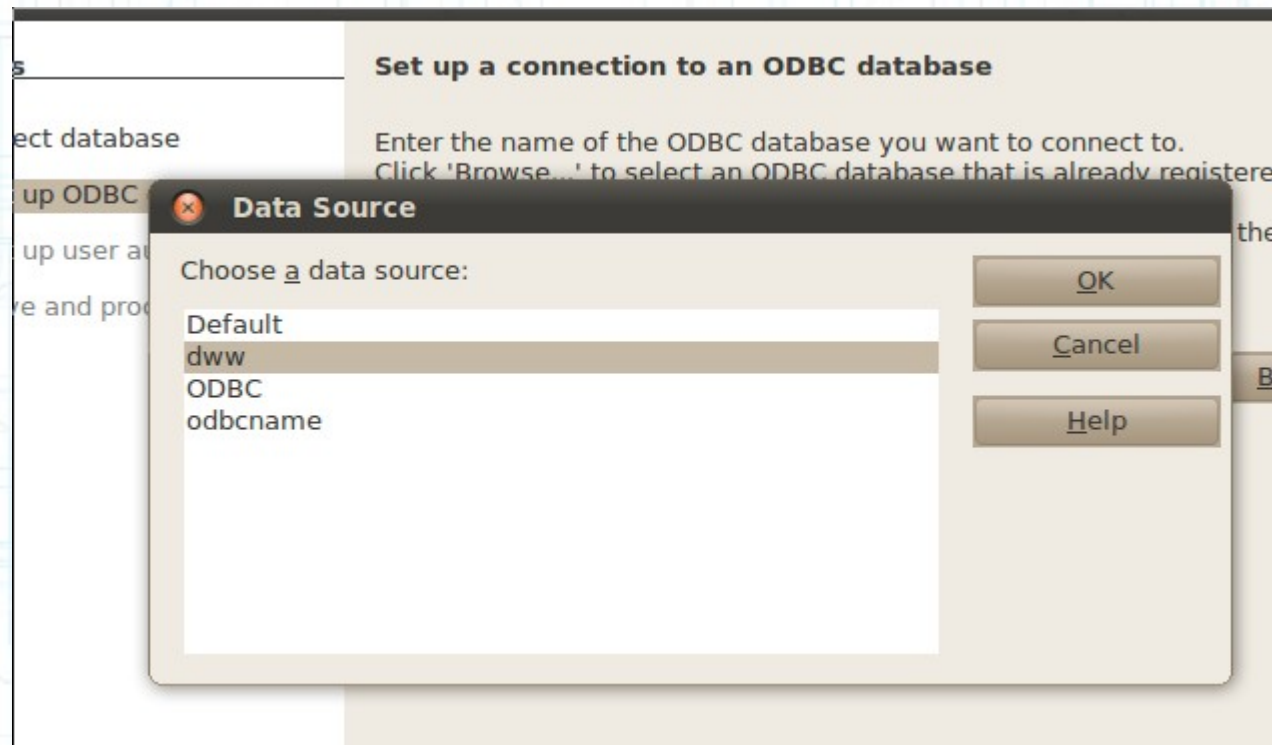


Penggunaan di odbc client

- Oo Database (ODBC Client), pilih koneksi ODBC



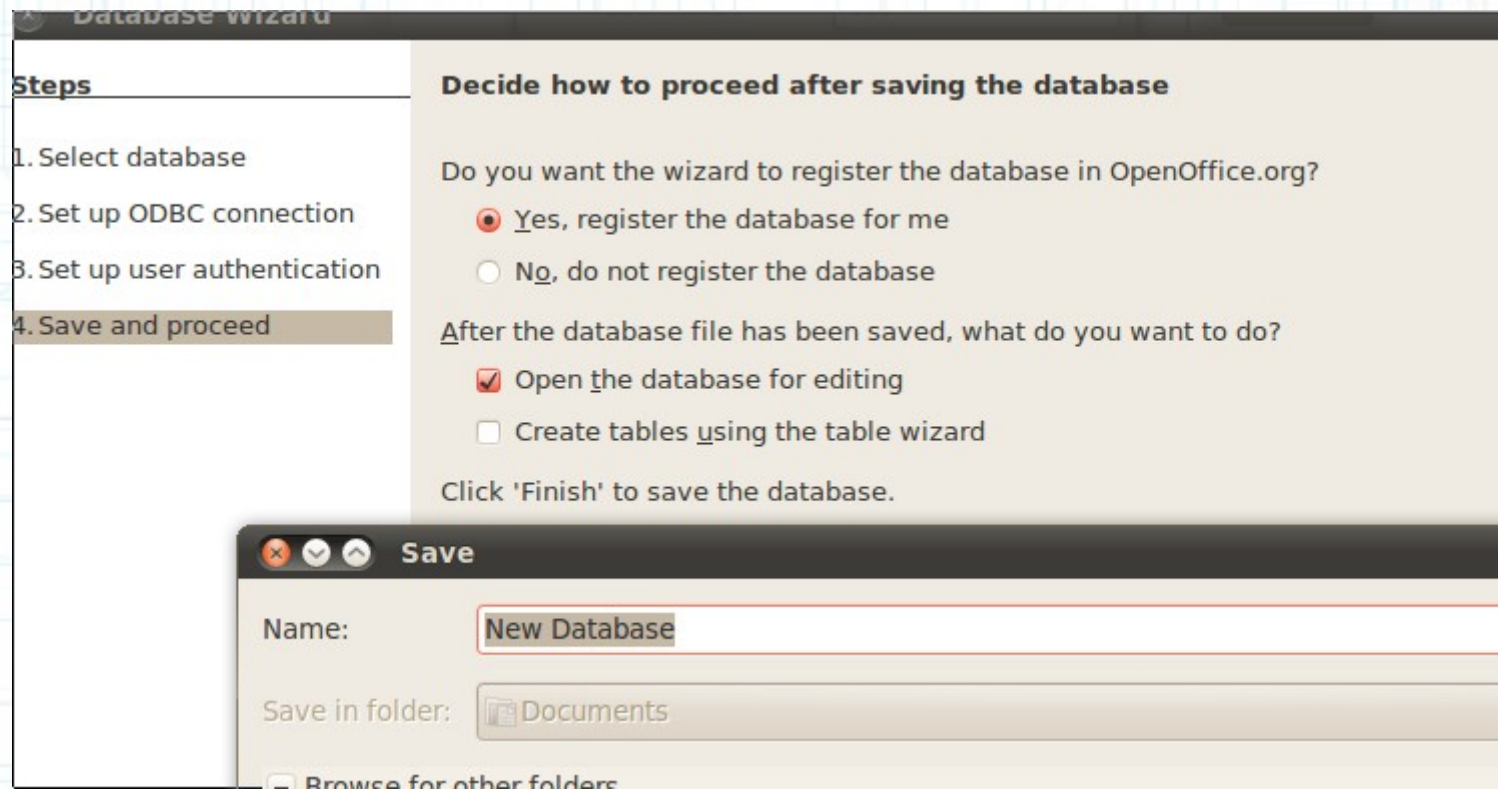
- Pilih koneksi



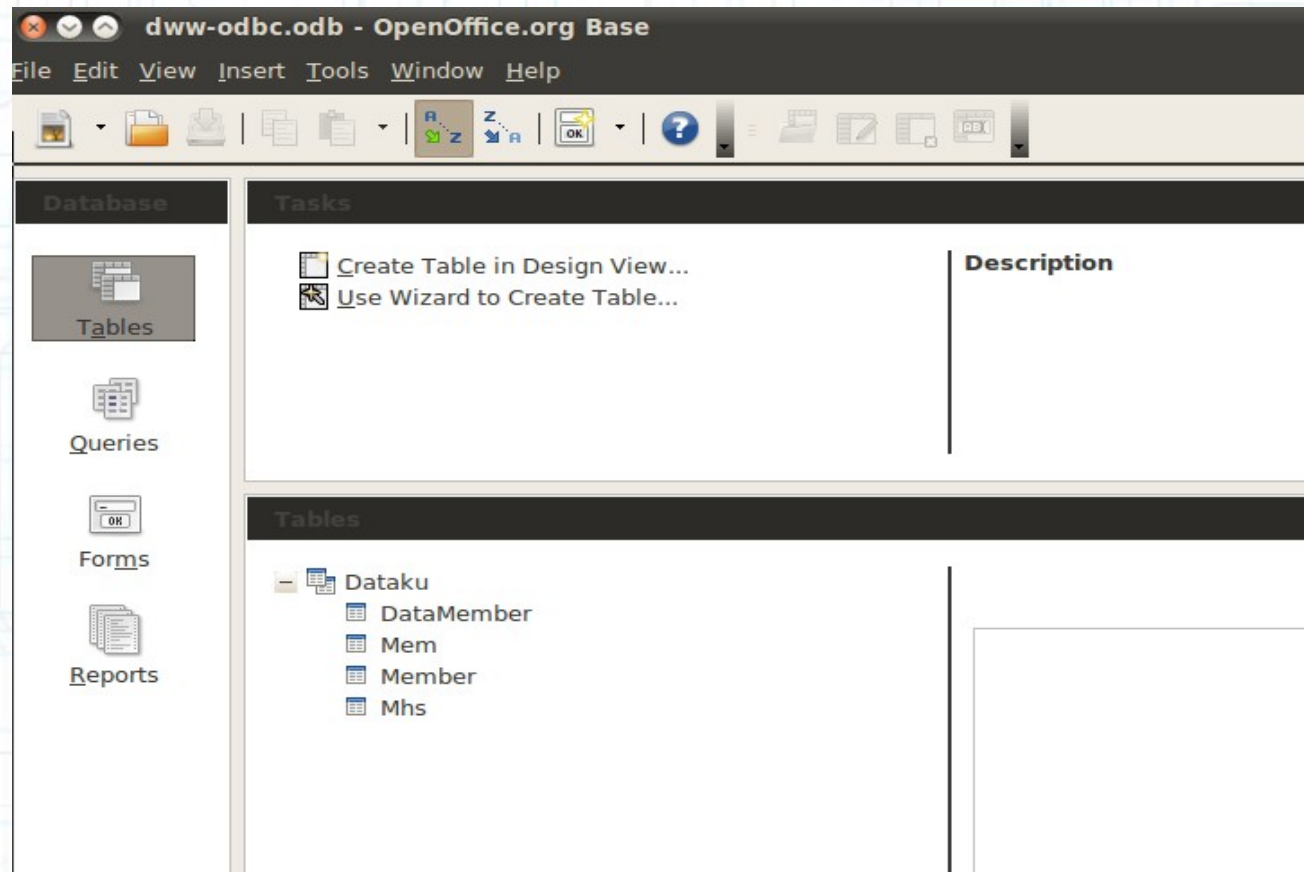
- Log in koneksi



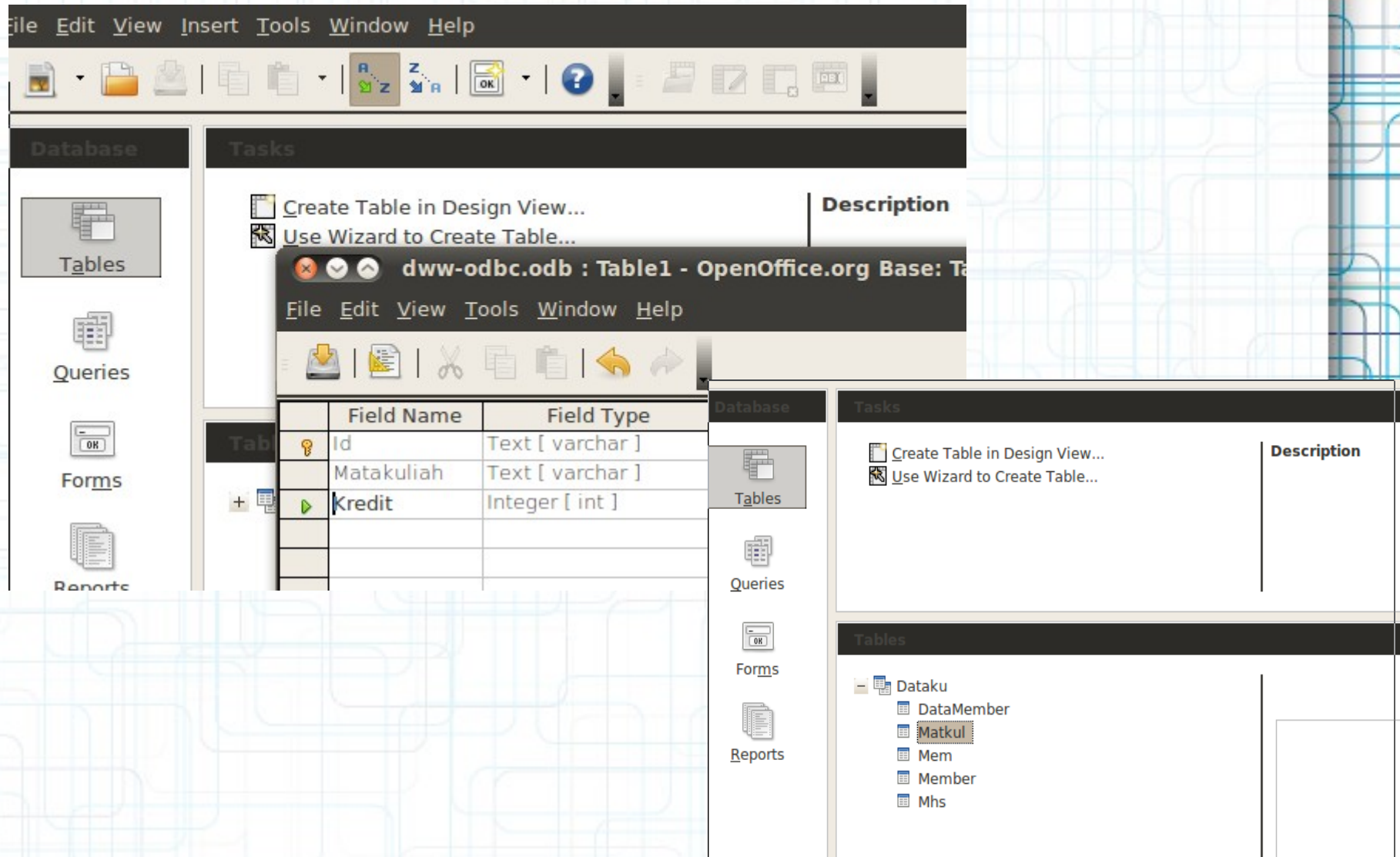
- Buat odbc client



- Buka database ODBC Client yang telah disimpan. Terlihat database serta isinya di server dapat diakses di Oo Database client



- Buat tabel baru dari odbc client



- tabel baru yang dibuat di ODBC Client terbentuk di MySQL Server

The screenshot shows the phpMyAdmin interface for a database named 'Dataku' on 'localhost'. The left sidebar lists the database 'Dataku (5)' and its tables: DataMember, Matkul, Mem, Member, and Mhs. The main panel displays the 'Structure' tab for the 'Dataku' database. It shows a table with 5 columns: Table, Action, Records, Type, and Collation. The tables listed are DataMember (3 records, InnoDB, latin1_swedish_ci), Matkul (0 records, MyISAM, latin1_swedish_ci), Mem (3 records, InnoDB, latin1_swedish_ci), Member (3 records, InnoDB, latin1_swedish_ci), and Mhs (0 records, MyISAM, latin1_swedish_ci). A summary row shows '5 table(s)' with a total of '9' records, using 'MyISAM' type and 'latin1_swedis' collation.

Table	Action	Records	Type	Collation
☐ DataMember		3	InnoDB	latin1_swedish_ci
☐ Matkul		0	MyISAM	latin1_swedish_ci
☐ Mem		3	InnoDB	latin1_swedish_ci
☐ Member		3	InnoDB	latin1_swedish_ci
☐ Mhs		0	MyISAM	latin1_swedish_ci
5 table(s)	Sum	9	MyISAM	latin1_swedis

Check All / Uncheck All With selected: ▼

PHP - ODBC

- Contoh koneksi → akses Isi dari tabel DataMember dari database Dataku

```
$koneksi= odbc_connect("dww", "root", "dww");
$sql="SELECT * FROM DataMember";
$seek=odbc_exec($koneksi,$sql);
echo "<table border=1><tr>";
echo "<th>Id</th>";
echo "<th>Password</th>";
echo "<th>Address</th></tr>";
while (odbc_fetch_row($seek))
{
    $sid=odbc_result($seek,"Id");
    $name=odbc_result($seek,"Name");
    $addr=odbc_result($seek,"Addr");
    echo "<tr><td>$sid</td>";
    echo "<td>$name</td>";
    echo "<td>$addr</td></tr>";
}
odbc_close($koneksi);
echo "</table>";
```

Id	Password	Address
abc123	Ana	Jebres
goes*	Viva	Klaten
var999	Vivi	Sukoharjo

- `odbc_connect` → untuk koneksi DSN dari ODBC yang telah dibuat, “dww” adalah nama DSN, “root” adalah nama user dan “dww” kedua adalah password
- `odbc_exec` → untuk eksekusi sintak operasi sql dari ODBC
- `odbc_fetch_row` → mengambil value per row
- `odbc_result` → menyimpan hasil pengambilan data row
- `odbc_close` → menutup koneksi ODBC

- Function untuk ODBC tidak jauh berbeda dengan built-in function pengolah untuk database yang lain.
- Perbedaan besar dari pengolahan ODBC sama seperti database yang lain yaitu sintak SQL nya.
- Kelebihan dari ODBC adalah anda cukup menggunakan built-in function yang sama untuk beragam database (MySQL, MSSQL, Oracle, dll)