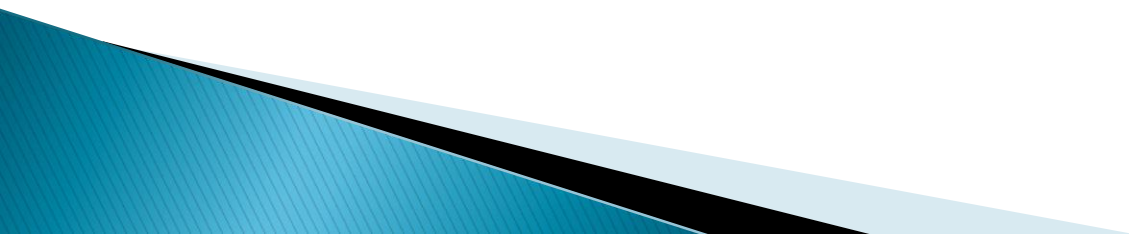# Open Database Connectivity (ODBC)
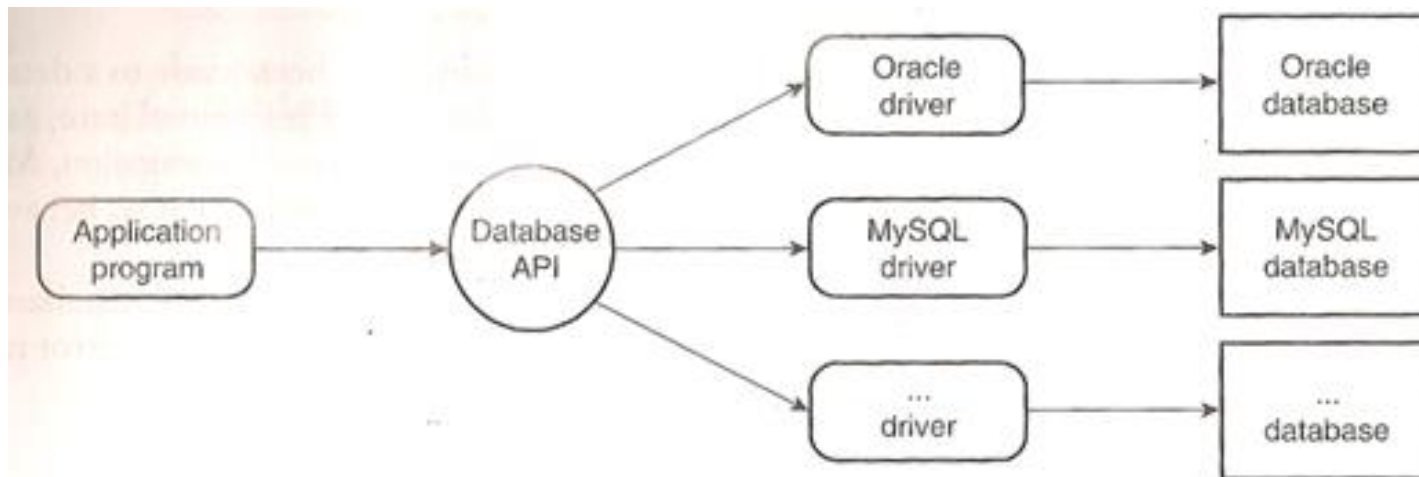
Common DB Access Architecture
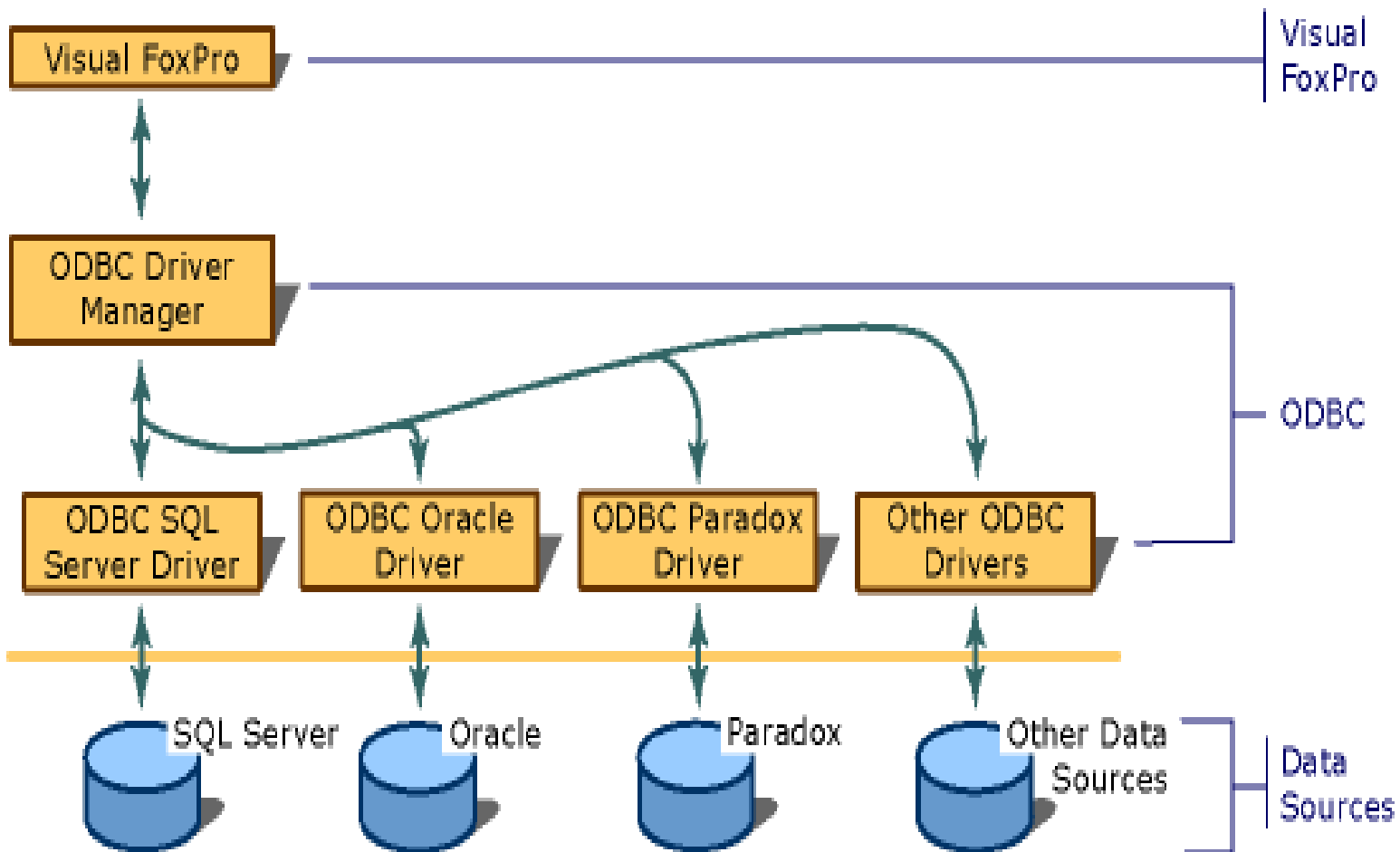

Figure 13.7 Common database access architecture

ODBC

ODBC Sources

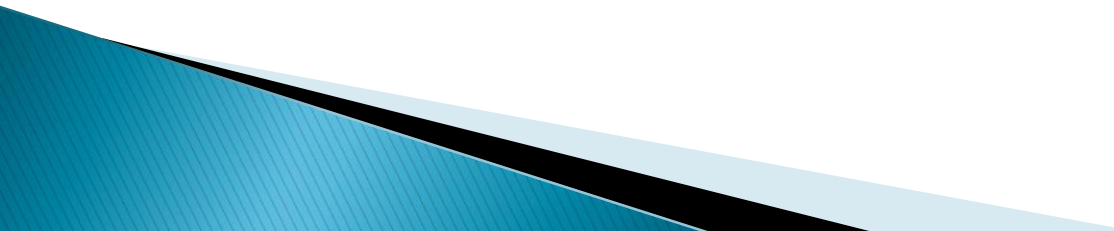Possible data sources:

SQLServer

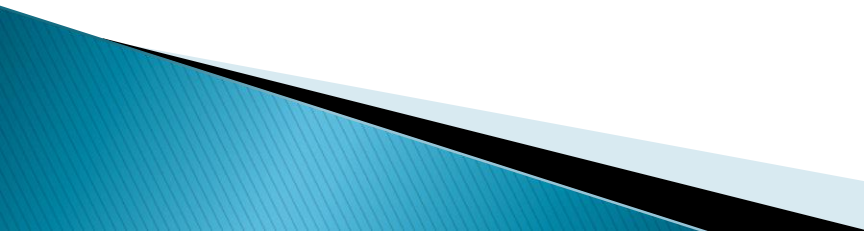MySQL

Oracle

Spreadsheet

Text file

Connections

To connect need:

1. Appropriate ODBC driver must be installed on the computer that contains the data source

2. Define a DSN (Data Source Name), usually

Data Sources

Data sources can be:

1. Machine (connection is stored in the Windows Registry on the specific computer)

    User – only user which created can use

    System – anyone on computer can use

2. File (connection data is stored in a file, called a DSN file, *.dsn)

3. Connection string (passes connection information directly to the ODBC Driver Manager)

Class Example

We'll create a "File DSN" – Can be copied to any machine which has the correct ODBC driver

Control Panel/
    Admin Tools/
        Data Sources (ODBC)/
           File DSN tab

Class Example continued

SQL Server Management Studio
"Add"
Use most recent – SQL Server Native Client 11.0

Enter name   "Finish"

Description
Server – mtcs-sql.butte.campus

Be sure to change the default database to the one which you want.

Class Example continued

Open Access
Blank DB
External tools – ODBC