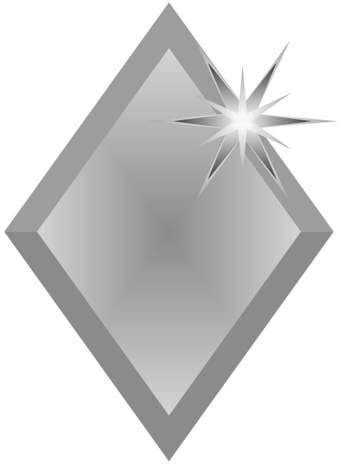


Accessing ODBC Databases

for Oberon for Windows (V4, System/3, /F)

Available via:

http://www.ssw.uni-linz.ac.at/Projects/ODBC.html

ftp://ftp.ssw.uni-linz.ac.at/pub/Oberon/LinzTools/ODBC.Cod

Features

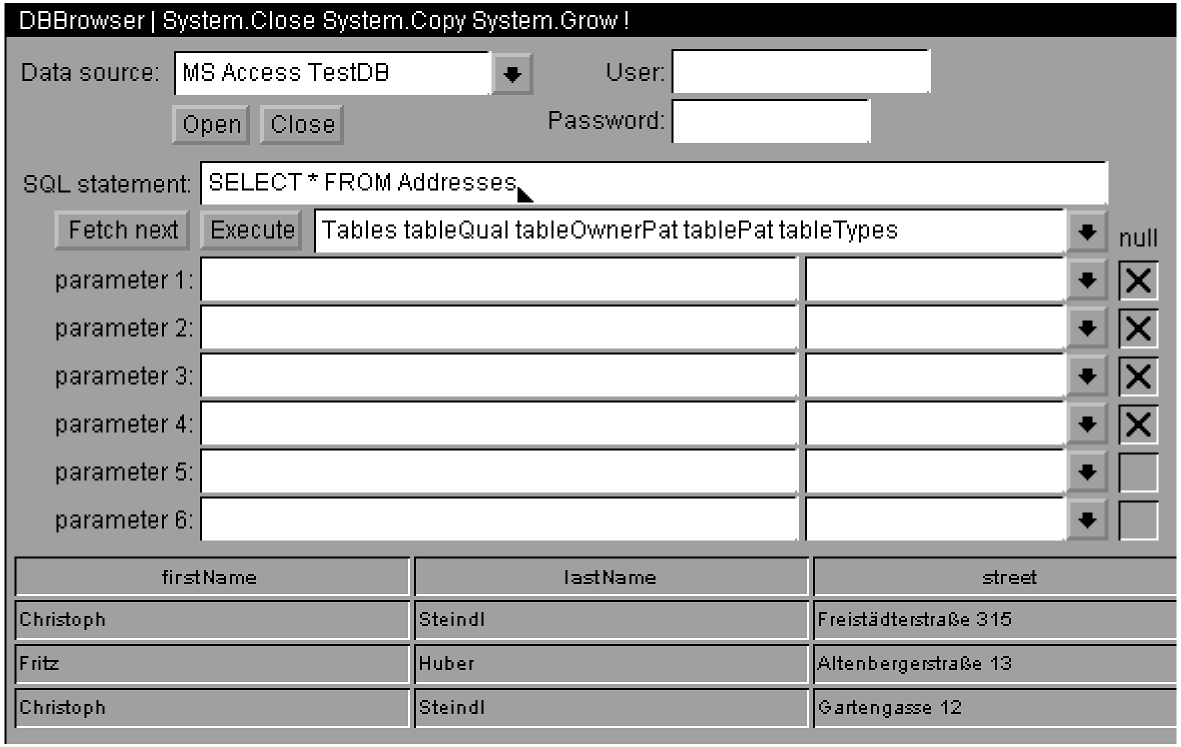
- Interoperability
  - Data, driver and network independence
- SQL as a query language
- Support of full ODBC Level 2 API
- Automatic mapping of datatypes
- Embedded SQL for easy programming

User Interface

- DataEditor

firstName: Christoph
lastName: Steindl
street: Freistädterstraße 315
town: Linz
zipCode: 4040

- DBBrowser



Data source: MS Access TestDB
User:
Password:
SQL statement: SELECT * FROM Addresses
Tables tableQual tableOwnerPat tablePat tableTypes
parameter 1: ☒
parameter 2: ☒
parameter 3: ☒
parameter 4: ☒
parameter 5: ☐
parameter 6: ☐

firstName	lastName	street
Christoph	Steindl	Freistädterstraße 315
Fritz	Huber	Altenbergerstraße 13
Christoph	Steindl	Gartengasse 12

Embedded SQL

```
PROCEDURE Insert*;      (** ^ | "firstName" "lastName" "street" "town" zipCode *)
    VAR adr: Address; s: SQLBase.Statement; stat: ESQL.Statement;
BEGIN
    In.Open;
    s := conn.Prepare("INSERT INTO Addresses values (:adr)");
    stat := s(ESQL.Statement);
    REPEAT
       In.String(adr.firstName); In.String(adr.lastName); In.String(adr.street);
       In.String(adr.town); In.Int(adr.zipCode);
       IF adr.street = "NULL" THEN stat.SetNull("adr.street") END ;
       IF In.Done THEN stat.Execute END
    UNTIL ~In.Done
END Insert;
```