This makes it possible to write two simple enclosing classes that contain all of the significant methods of the Connection, ResultSet, Statement, and MetaData classes. These are the Database class methods:

```
class Database {
    public Database(String driver)()  //constructor
    public void         Open(String url, String cat);
    public String[]     getTableNames();
    public String[]     getColumnNames(String table);
    public String       getColumnValue(String table,
                        String columnName);
    public String       getNextValue(String columnName);
    public resultSet    Execute(String sql);
}
```

Following is the Results class:

```
class Results
{
    public Results(ResultSet rset);    //constructor
    public String[]    getMetaData();
    public boolean     hasMoreElements();
    public String[]    nextElement();
    public String      getColumnValue(String columnName);
    public String      getColumnValue(int i);
}
```

These simple classes allow us to write a program for opening a database; displaying its table names, column names, and contents; and running a simple SQL query on the database.

Our example program using this Façade pattern is the dbFrame.java program. This program, shown in Figure 13.3, accesses a database that contains food prices at three local markets.

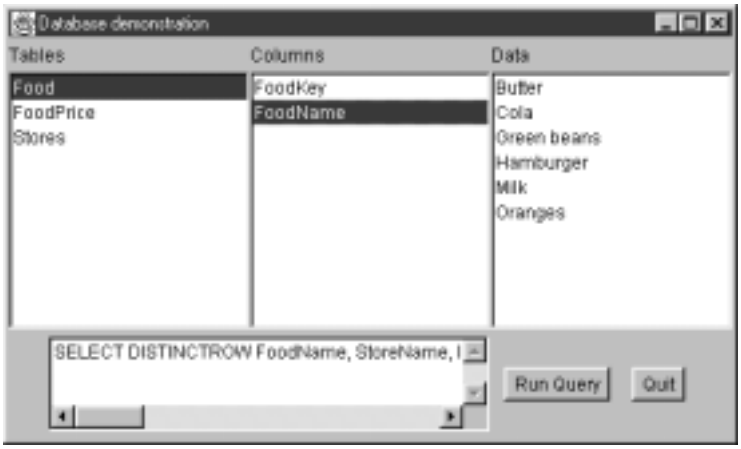

Figure 13.3 The dbFrame program showing the selection of a table, the column names, and the contents of that column in the database.