

# microgen

## *DBCularity Developer™*



## Product Overview and Examples

Introduction

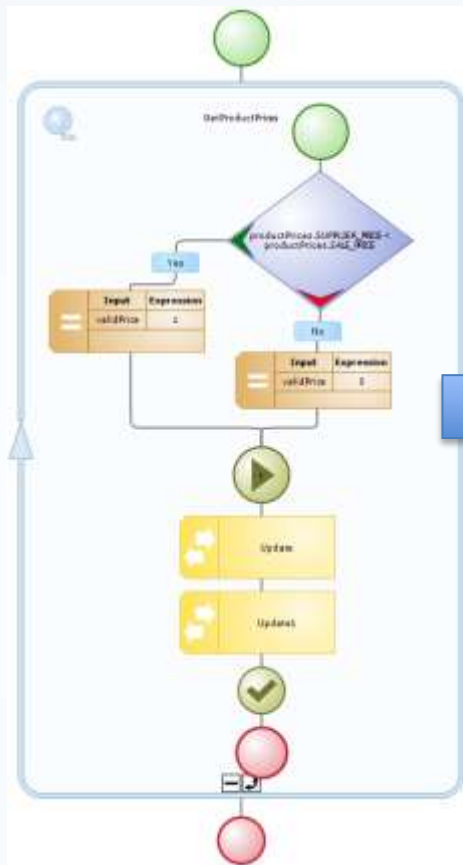
**Microgen  
DBClarity  
Developer**

- Introduction

- Microgen DBClarity is a new and innovative product, providing business analysts with the ability to graphically define, implement and deploy relational database entities and procedural logic
- Based on an easy to understand set theory to handle large volumes of data
- Provides great benefits in:
  - Complex calculations
  - Reconciliation
  - Customer profitability
  - Analytics: actuarial, risk, trends, reports, average daily balance and more

# Graphical SQL Implementation

Microgen DBClarity Developer enables the graphical definition and implementation of SQL queries and procedures



```
1 CREATE PROCEDURE PriceValidation()
2 BEGIN
3     DECLARE validPrice DECIMAL(38);
4     DECLARE errorCode DECIMAL(38) DEFAULT 1;
5     DECLARE errorMessage VARCHAR(64000) DEFAULT 'Unknown Error';
6     GetProductPrices_Label:
7     FOR productPrices AS
8     SELECT
9         SUPPLIER_PRODUCT.SUPPLIER_ID AS SUPPLIER_ID,
10        PRODUCT.PRODUCT_ID AS PRODUCT_ID,
11        PRODUCT.UNIT_PRICE AS SALE_PRICE,
12        SUPPLIER_PRODUCT.SUPPLIER_PRICE AS SUPPLIER_PRICE
13 FROM
14     PRODUCT
15     INNER JOIN SUPPLIER_PRODUCT ON
16     PRODUCT.PRODUCT_ID = SUPPLIER_PRODUCT.PRODUCT_ID
17 DO
18     IF productPrices.SUPPLIER_PRICE < productPrices.SALE_PRICE THEN
19         SET validPrice = 1;
20     ELSE
21         SET validPrice = 0;
22     END IF;
23     UPDATE PRODUCT
24     SET
25         VALID_PRICE = validPrice
26     WHERE
27         PRODUCT.PRODUCT_ID = productPrices.PRODUCT_ID;
28     UPDATE SUPPLIER_PRODUCT
29     SET
30         VALID_PRICE = validPrice
31     WHERE
32         (SUPPLIER_PRODUCT.PRODUCT_ID = productPrices.PRODUCT_ID)
33         AND
34         (SUPPLIER_PRODUCT.SUPPLIER_ID = productPrices.SUPPLIER_ID);
35 END FOR GetProductPrices_Label;
36 END;
```

# Key Features

- Connect to Teradata, Oracle or SQL Server databases with the Database Server Interface
- Create, view, edit and deploy custom data schemas and establish database structures
- Define and implement SQL rules, procedures and expressions by drag-and-drop from the Microgen DBClarity Developer Toolbox
- Reuse SQL Rules and Expressions within Procedures and share logic with other database users
- Review complex SQL logic using the powerful Microgen DBClarity Developer debugger

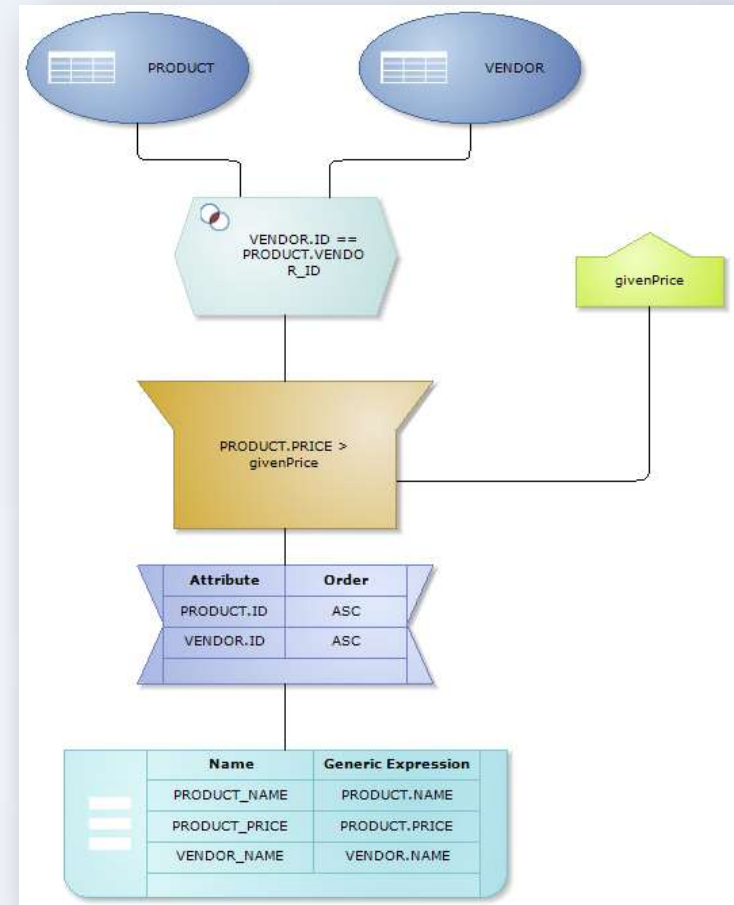
- Graphically define SQL statements using a sequence of operations using:

- Blocks:** Define set-operations to compose queries
- Links:** Represent the flow of data between sets and operations, or between multiple operations
- Side Links:** Pass parameters for expressions used in operation blocks



- SQL Rules can be:
  - Deployed as a database stored procedure or database view
  - Referenced in the External Call Format and Database EDF Query

- Full graphical support – user friendly approach to do complex calculations or analytics
- Intuitive logic design suits the Business User
- Easy to understand diagrams that generate SQL
- Runs within the database to reduce the amount of data I/O, thereby significantly increasing performance for large volume functions



- Connect to a database from any workstation running Microgen DBClarity Developer to access the database structures.
- Create, maintain and deploy all elements of a relational database.
- Load large data directly from the database to Microgen DBClarity Developer.
- Create database structures on the database server.
- Build SQL deployment packages to create associated tables, relationships, and views. The same package can be used to update database entities in one deployment.
- Validate, execute and commit SQL statements directly onto a database and view the results in the advanced SQL Editor.

# More Information

- Download the product and find more information, including product workshops and training videos, visit the Microgen website [www.microgen.com/dbclarity](http://www.microgen.com/dbclarity)
- Send your product questions and feedback to the Microgen team at [dbclarity.feedback@microgen.com](mailto:dbclarity.feedback@microgen.com)
- Contact Microgen Support for all DBClarity Developer related support queries at [dbclarity.support@microgen.com](mailto:dbclarity.support@microgen.com)
- Follow DBClarity Developer on Twitter @**MCGN\_DBClarity**

This document is designed to provide a training overview of Microgen DBClarity Developer™. Information in this document is subject to change without notice and does not represent a commitment on the part of Microgen.

The information contained in this document is proprietary and confidential to Microgen plc and must not, therefore, be disclosed to any third-party without the express written permission of Microgen. In addition, no part of this document may be reproduced or transmitted in any form or by any means electronic or mechanical including photocopying, recording or information storage and retrieval systems, for any purpose other than the recipient's personal use without the express written permission of Microgen.