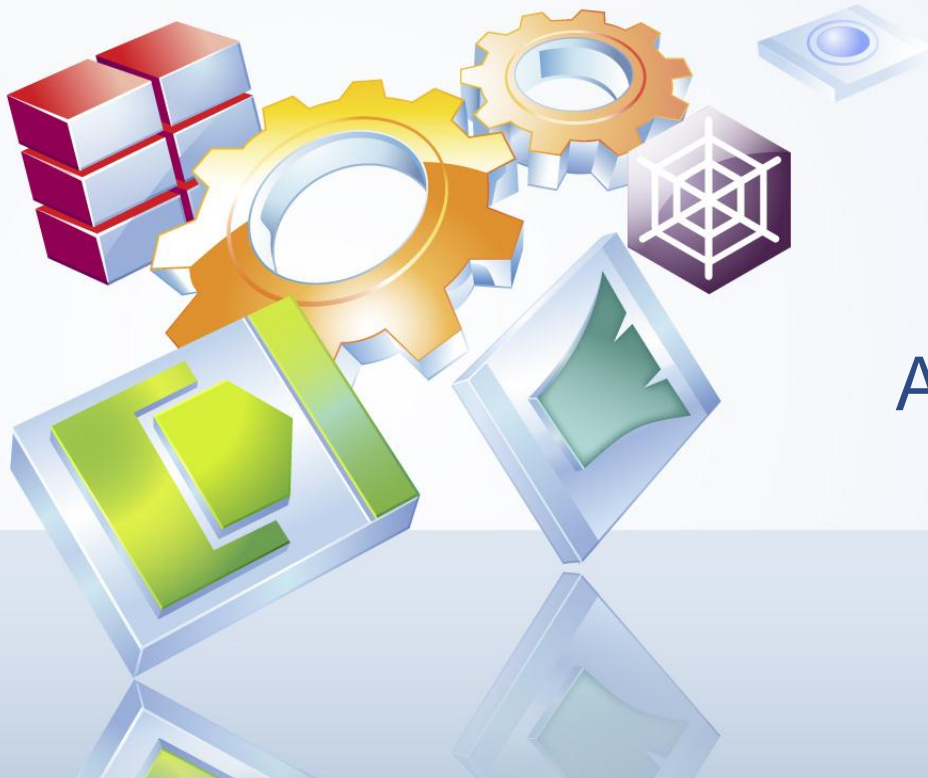


microgen

DBClarity Developer™

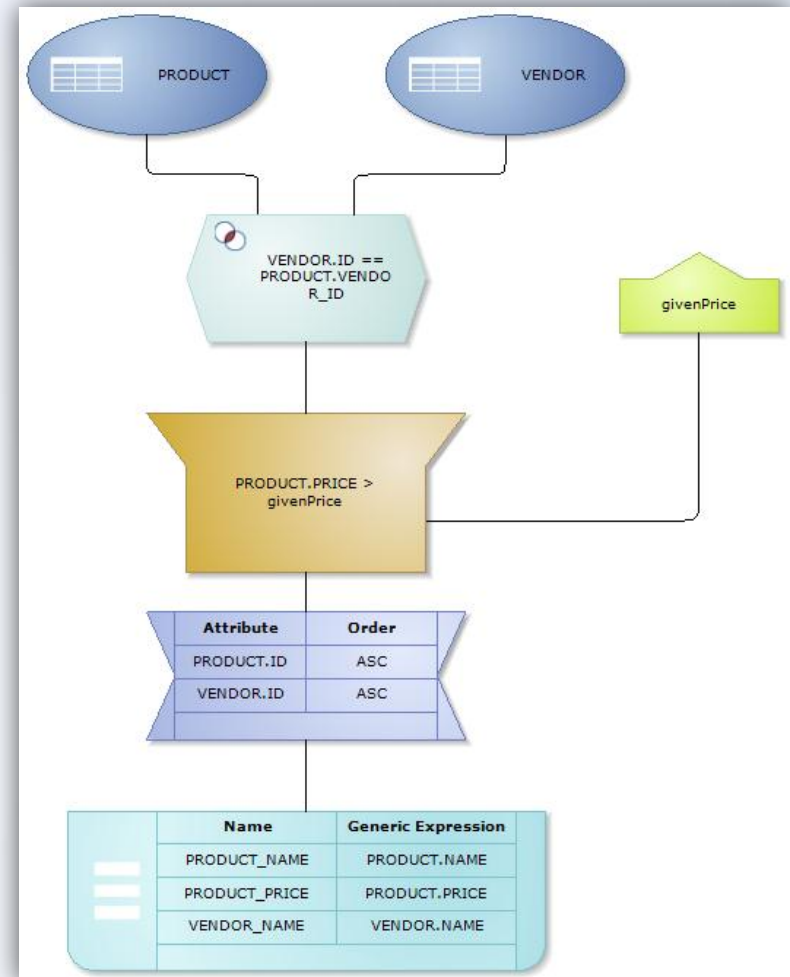


An Overview

- Introduction
- Common Coding Concerns
- Key Features
- Key Benefits
- Sample Graphical Models
- Database Server Interface
- Summary
- More Information

Introduction

- Enables the graphical definition and implementation of SQL queries and procedures
- Helps user create database routines simply using drag-and-drop from the Microgen DBClarity Developer toolbox
- Supports Teradata, Oracle and SQL Server



Common Coding Concerns

- Traditional code-based SQL queries are often difficult to write, edit, audit or implement
- Data owners, both from within IT and the Business, typically have little or no visibility over the operational stored procedures that affect their data
- Many SQL coded queries, and subsequent business decisions, are inaccurate due to miscommunication between Business and IT
- Home grown Extract, Transform and Load (ETL) applications often become complex and unwieldy to manage

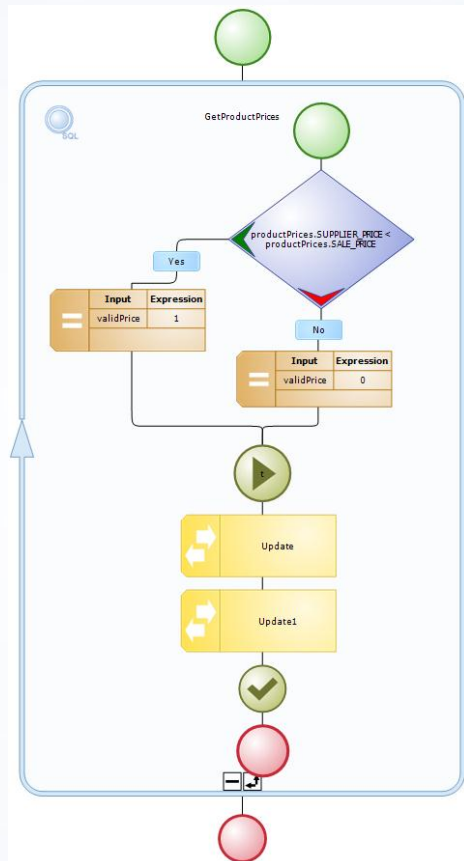
Key Features

- **Graphical Procedures:** Implement database rules and procedures by using drag-and-drop from the Microgen DBClarity Developer toolbox
- **In-Database Processing:** Run queries within the database to reduce the burden on data infrastructure
- **Embedded SQL Expressions and Rules:** Maximise the re-use of logic and ensure best-practice using a modular database querying environment
- **Integrated Data Design:** Create custom data schemas from within the graphical studio
- **Enterprise-class Development:** Correct and quickly implement complex queries using a powerful debugger
- **Database Agnostic:** Create a rule once and deploy to Teradata, Oracle and SQL Server databases

- **Team Productivity:** Business and IT users work together using an easy-to-understand graphical studio
- **Consistency and Accuracy:** Reusable rules and calculations promote sound decision-making and ensure Business and IT users are in step
- **Database Transparency:** Business users can easily modify and validate the logic that runs within the database
- **Complete Auditability:** Users can truly understand, own and authorise the data processing logic

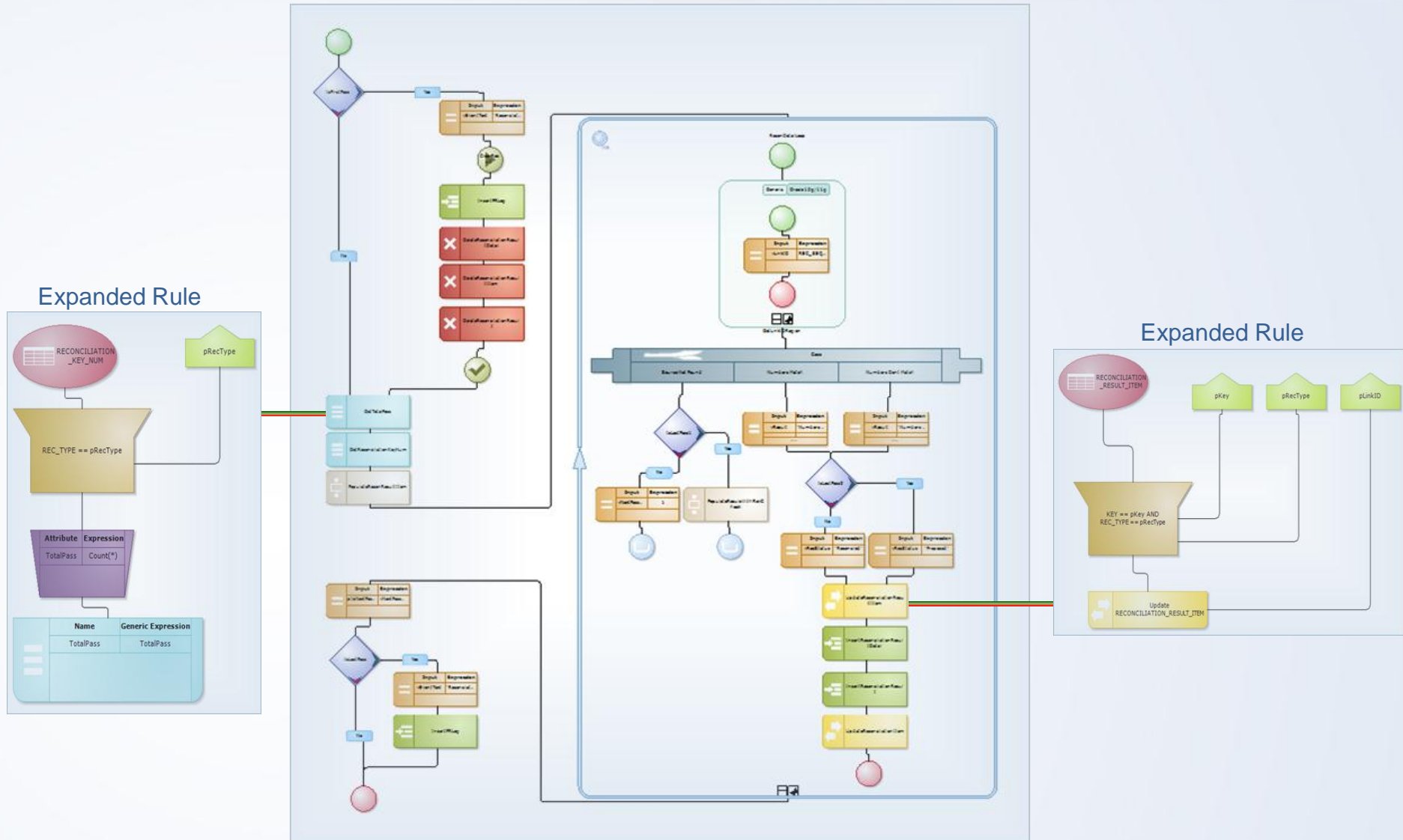
Graphical Model of Complex SQL

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;
```

Graphical Model of Complex SQL



- Support visual query building with component based toolkit
- Review and update SQL queries using a graphical interface
- Build efficient SQL queries using easy drag-and-drop gestures
- Connect to multiple databases to deploy graphical queries
- Encourage team work through collaborative use of the graphical studio
- Support consistency with reusable rules and calculations
- Enable business users to modify and validate database logic
- Correct and implement complex queries using the powerful debugger

More Information

- Download the product and find more information, including product workshops and training videos, visit the Microgen website www.microgen.com/dbclarity
- Send your product questions and feedback to the Microgen team at dbclarity.feedback@microgen.com
- Contact Microgen Support for all DBClarity related support queries at dbclarity.support@microgen.com
- Follow DBClarity Developer on Twitter @**MCGN_DBClarity**