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EMS® Software Development

Advanced Query Builder for RAD Studio VCL User's Manual

Advanced Query Builder for RAD Studio VCL
User's Manual

This manual documents EMS Advanced Query Builder for RAD Studio VCL, version 3.8.

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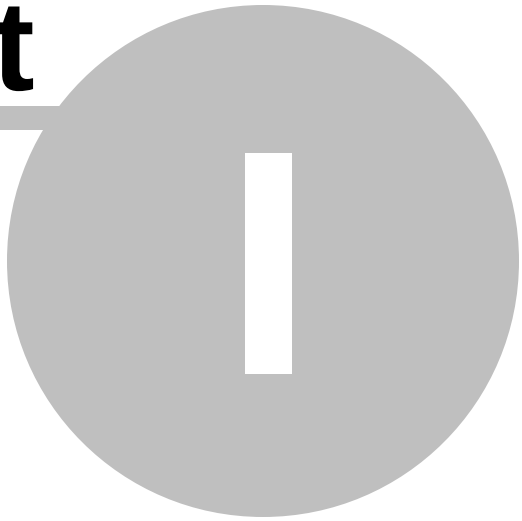
Part



1 Welcome to Advanced Query Builder for RAD Studio VCL!

1.1 Overview

EMS Advanced Query Builder for RAD Studio VCL is a component for Delphi and C++ Builder intended for visual building SQL statements for the SELECT, INSERT, UPDATE and DELETE clauses. It allows you to build new queries visually and/or graphically represent the existing queries in your own applications. The suite includes components for working with standard SQL and a number of dialects used in most popular RDBMS.
Advanced Query Builder enables users to make up large and complicated SQL queries with unions and subqueries for different servers even without any knowledge of the SQL syntax.

Key features

- Support for 64-bit Windows target platform
- Standard SQL, InterBase/Firebird, MySQL, PostgreSQL, SQL Server, Oracle, and DB2 support
- Detailed help system and a demo application for quicker mastering the product
- Powerful component and property editors which admit to setting many query building parameters at the design-time easily
- High productivity even on slow computers
- Powerful SQL parser which allows you to represent complicate SQL statements visually
- Creating TxxxQueryBuilder components for working with the specified server easily
- Full customization of font colors, object appearance, etc.
- RAD Studio XE2-XE8, 10 Seattle, 10.1 Berlin, 10.2 Tokyo, 10.3 Rio, 10.4 Sydney, 11 Alexandria, 12 Athens, 13 Florence

Product information

Homepage	https://www.sqlmanager.net/products/tools/querybuilder
Support Ticket System	https://www.sqlmanager.net/support
Register on-line at	https://www.sqlmanager.net/products/tools/querybuilder/buy

1.2 What's new

Version	Release date
Advanced Query Builder for RAD Studio VCL 3.15	October 9, 2025

What's new in Advanced Query Builder for RAD Studio VCL 3.15?

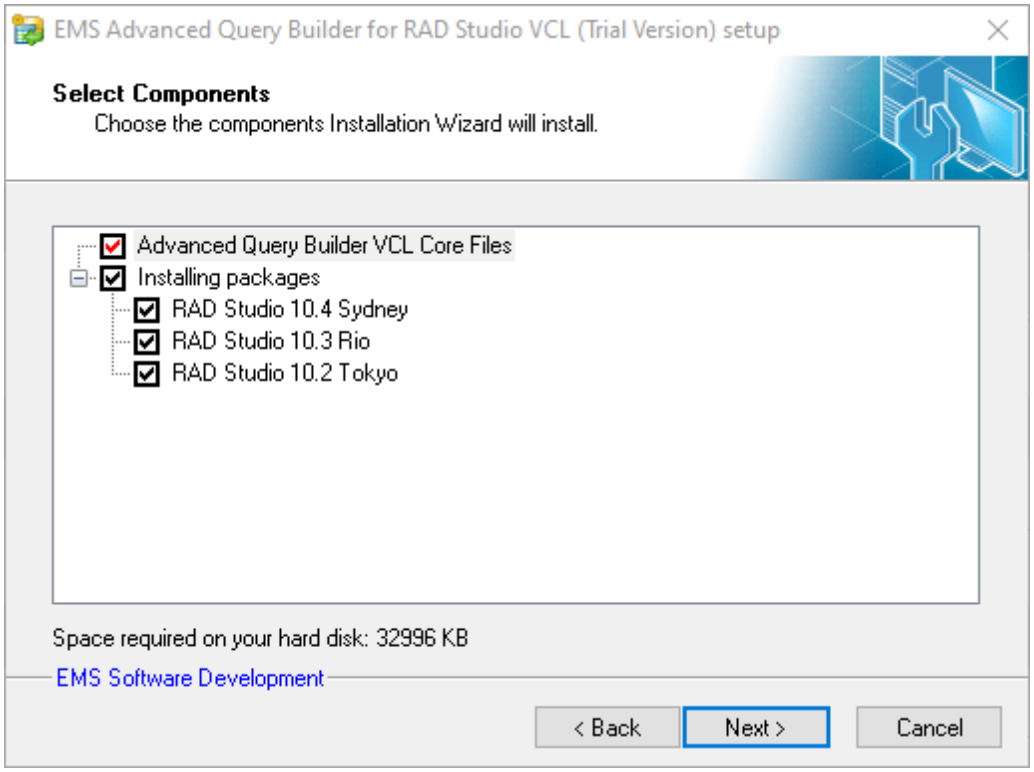
- Implemented support for RAD Studio 13 Florence
- Implemented support for Windows 11 ARM architecture
- End of support for RAD Studio 2010 and XE versions

1.3 Installation

To install the **trial version** of **Advanced Query Builder for RAD Studio VCL** onto your system:

- download the distribution package of **Advanced Query Builder for RAD Studio VCL** from the download page available at our website;
- unzip the downloaded file to any local directory, e.g. *C:\unzipped*;
- close all currently opened Delphi and/or C++ Builder IDEs, if any;
- run the executable setup file from the local directory and follow the instructions of the installation wizard.

During the installation you will need to select the packages to install.



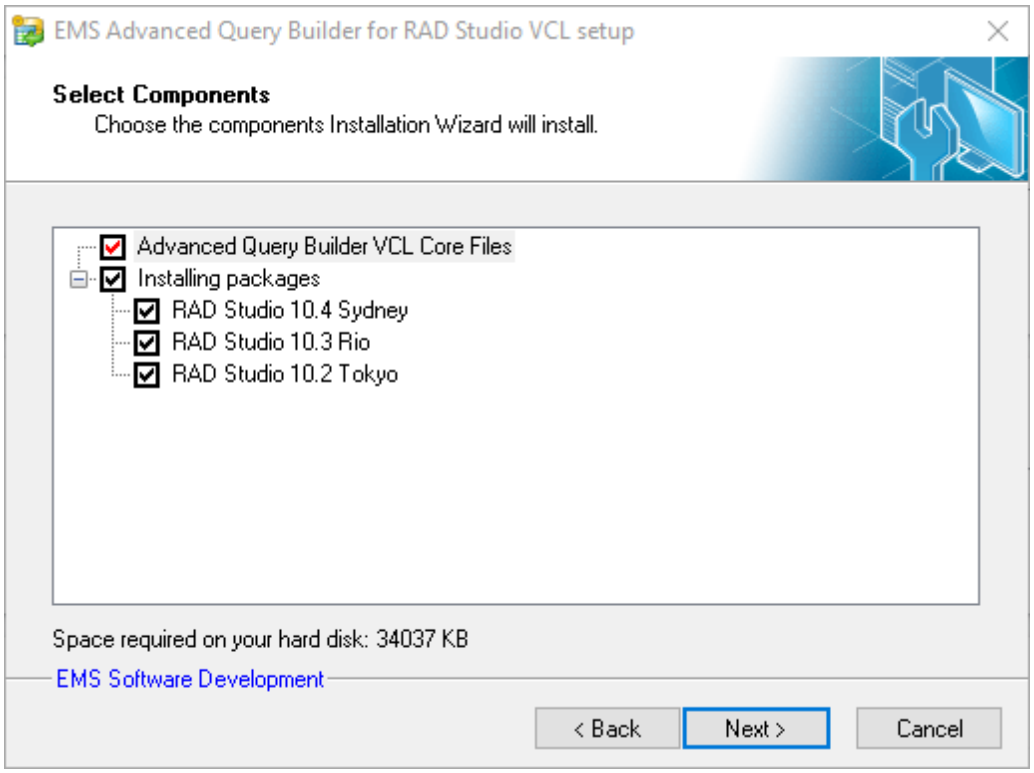
When you are done, you can finish installation of the **trial version** of **Advanced Query Builder for RAD Studio VCL**.

To install the **full version** of **Advanced Query Builder for RAD Studio VCL** onto your system:

- download the distribution package of **Advanced Query Builder for RAD Studio VCL** from the download page available at our website;
- unzip the downloaded file to any local directory, e.g. *C:\unzipped*;
- close all currently opened Delphi and/or C++ Builder IDEs, if any;
- run the executable setup file from the local directory and follow the instructions of the installation wizard.

Enter valid registration information in the appropriate boxes: **Registration name** and **Registration Key**. See details on getting this information.

During the installation you will need to select the packages to install.



When you are done, you can finish installation of the **full version** of **Advanced Query Builder for RAD Studio VCL**.

Note: If the above given instructions have been insufficient for successful installation of the component suite, please refer to the *readme.1st* file distributed with the product.

1.4 Registration

All purchases are provided by **PayPro Global** registration service. The **PayPro Global** order process is protected via a secure connection and makes on-line ordering by credit/ debit card quick and safe.

PayPro Global is a global e-commerce provider for software and shareware sales via the Internet. It accepts payments in US Dollars, Euros, Pounds Sterling, Japanese Yen, Australian Dollars, Canadian Dollars or Swiss Franks by Credit Card (Visa, MasterCard/ EuroCard, American Express, Diners Club), Bank/Wire Transfer.

If you want to review your order information, or you have questions about ordering or payments please visit our PayPro Global Shopper Support, provided by **PayPro Global.**

Please note that all of our products are delivered via ESD (Electronic Software Delivery) only. After purchase you will be able to immediately download the registration keys. Also you will receive a copy of registration keys by email. Please make sure to enter a valid email address in your order. If you have not received the keys within 2 hours, please, contact us at sales@sqlmanager.net.

Product distribution	**PayPro Global**
Advanced Query Builder for RAD Studio VCL Component Full version (with sources)*	Register Now!
Advanced Query Builder for RAD Studio VCL Component Trial version	Download Now!

***EMS Maintenance Program** provides the following benefits:

- Free software bug fixes, enhancements, updates and upgrades during the maintenance period
- Free unlimited communications with technical staff for the purpose of reporting Software failures
- Free reasonable number of communications for the purpose of consultation on operational aspects of the software

After your maintenance expires you will not be able to update your software or get technical support. To protect your investments and have your software up-to-date, you need to renew your maintenance.

You can easily reinitiate/renew your maintenance with our on-line, speed-through Maintenance Reinstatement/Renewal Interface. After reinitiating/renewal you will receive a confirmation e-mail with all the necessary information.

1.5 How to register Advanced Query Builder

To register your newly purchased copy of **EMS Advanced Query Builder for RAD Studio VCL**, perform the following steps:

- receive the notification letter from **PayPro Global** with the registration info;
- enter the **Registration Name** and the **Registration Key** from this letter while installing the **full version** of the product.

See also:

Registration

1.6 Other EMS Products

Quick navigation


MySQL


Microsoft SQL Server


PostgreSQL


InterBase / FireBird


Oracle


IBM DB2


Tools & components

MySQL

SQL Management Studio for MySQL
EMS SQL Management Studio for MySQL is a complete solution for database administration and development. SQL Studio unites the must-have tools in one powerful and easy-to-use environment that will make you more productive than ever before!

SQL Manager for MySQL
Simplify and automate your database development process, design, explore and maintain existing databases, build compound SQL query statements, manage database user rights and manipulate data in different ways.

Data Export for MySQL
Export your data to any of 20 most popular data formats, including MS Access, MS Excel, MS Word, PDF, HTML and more.

Data Import for MySQL
Import your data from MS Access, MS Excel and other popular formats to database tables via user-friendly wizard interface.

Data Pump for MySQL
Migrate from most popular databases (MySQL, PostgreSQL, Oracle, DB2, InterBase/Firebird, etc.) to MySQL.

Data Generator for MySQL
Generate test data for database testing purposes in a simple and direct way. Wide range of data generation parameters.

DB Comparer for MySQL
Compare and synchronize the structure of your databases. Move changes on your development database to production with ease.

DB Extract for MySQL
Create database backups in the form of SQL scripts, save your database structure and table data as a whole or partially.

SQL Query for MySQL
Analyze and retrieve your data, build your queries visually, work with query plans, build charts based on retrieved data quickly and more.

Data Comparer for MySQL
Compare and synchronize the contents of your databases. Automate your data migrations from development to production database.

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Microsoft SQL Server

SQL Management Studio for SQL Server
EMS SQL Management Studio for SQL Server is a complete solution for database administration and development. SQL Studio unites the must-have tools in one powerful and easy-to-use environment that will make you more productive than ever before!

EMS SQL Backup for SQL Server
Perform backup and restore, log shipping and many other regular maintenance tasks on the whole set of SQL Servers in your company.

SQL Administrator for SQL Server
Perform administrative tasks in the fastest, easiest and most efficient way. Manage maintenance tasks, monitor their performance schedule, frequency and the last execution result.

SQL Manager for SQL Server
Simplify and automate your database development process, design, explore and maintain existing databases, build compound SQL query statements, manage database user rights and manipulate data in different ways.

Data Export for SQL Server
Export your data to any of 20 most popular data formats, including MS Access, MS Excel, MS Word, PDF, HTML and more

Data Import for SQL Server
Import your data from MS Access, MS Excel and other popular formats to database tables via user-friendly wizard interface.

Data Pump for SQL Server
Migrate from most popular databases (MySQL, PostgreSQL, Oracle, DB2, InterBase/Firebird, etc.) to Microsoft® SQL Server™.

Data Generator for SQL Server
Generate test data for database testing purposes in a simple and direct way. Wide range of data generation parameters.

DB Comparer for SQL Server
Compare and synchronize the structure of your databases. Move changes on your development database to production with ease.

DB Extract for SQL Server
Create database backups in the form of SQL scripts, save your database structure and table data as a whole or partially.

SQL Query for SQL Server
Analyze and retrieve your data, build your queries visually, work with query plans, build charts based on retrieved data quickly and more.

Data Comparer for SQL Server
Compare and synchronize the contents of your databases. Automate your data migrations from development to production database.

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PostgreSQL

SQL Management Studio for PostgreSQL
EMS SQL Management Studio for PostgreSQL is a complete solution for database administration and development. SQL Studio unites the must-have tools in one powerful and easy-to-use environment that will make you more productive than ever before!

EMS SQL Backup for PostgreSQL
Creates backups for multiple PostgreSQL servers from a single console. You can use automatic backup tasks with advanced schedules and store them in local or remote folders or cloud storages

SQL Manager for PostgreSQL
Simplify and automate your database development process, design, explore and maintain existing databases, build compound SQL query statements, manage database user rights and manipulate data in different ways.

Data Export for PostgreSQL
Export your data to any of 20 most popular data formats, including MS Access, MS Excel, MS Word, PDF, HTML and more

Data Import for PostgreSQL
Import your data from MS Access, MS Excel and other popular formats to database tables via user-friendly wizard interface.

Data Pump for PostgreSQL
Migrate from most popular databases (MySQL, SQL Server, Oracle, DB2, InterBase/Firebird, etc.) to PostgreSQL.

Data Generator for PostgreSQL
Generate test data for database testing purposes in a simple and direct way. Wide range of data generation parameters.

DB Comparer for PostgreSQL
Compare and synchronize the structure of your databases. Move changes on your development database to production with ease.

DB Extract for PostgreSQL
Create database backups in the form of SQL scripts, save your database structure and table data as a whole or partially.

SQL Query for PostgreSQL
Analyze and retrieve your data, build your queries visually, work with query plans, build charts based on retrieved data quickly and more.

Data Comparer for PostgreSQL
Compare and synchronize the contents of your databases. Automate your data migrations from development to production database.

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InterBase / Firebird

SQL Management Studio for InterBase/Firebird
EMS SQL Management Studio for InterBase and Firebird is a complete solution for database administration and development. SQL Studio unites the must-have tools in one powerful and easy-to-use environment that will make you more productive than ever before!

SQL Manager for InterBase/Firebird
Simplify and automate your database development process, design, explore and maintain existing databases, build compound SQL query statements, manage database user rights and manipulate data in different ways.

Data Export for InterBase/Firebird
Export your data to any of 20 most popular data formats, including MS Access, MS Excel, MS Word, PDF, HTML and more

Data Import for InterBase/Firebird
Import your data from MS Access, MS Excel and other popular formats to database tables via user-friendly wizard interface.

Data Pump for InterBase/Firebird
Migrate from most popular databases (MySQL, SQL Server, Oracle, DB2, PostgreSQL, etc.) to InterBase/Firebird.

Data Generator for InterBase/Firebird
Generate test data for database testing purposes in a simple and direct way. Wide range of data generation parameters.

DB Comparer for InterBase/Firebird
Compare and synchronize the structure of your databases. Move changes on your development database to production with ease.

DB Extract for InterBase/Firebird
Create database backups in the form of SQL scripts, save your database structure and table data as a whole or partially.

SQL Query for InterBase/Firebird
Analyze and retrieve your data, build your queries visually, work with query plans, build charts based on retrieved data quickly and more.

Data Comparer for InterBase/Firebird
Compare and synchronize the contents of your databases. Automate your data migrations from development to production database.

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Oracle

SQL Management Studio for Oracle
EMS SQL Management Studio for Oracle is a complete solution for database administration and development. SQL Studio unites the must-have tools in one powerful and easy-to-use environment that will make you more productive than ever before!

SQL Manager for Oracle
Simplify and automate your database development process, design, explore and maintain existing databases, build compound SQL query statements, manage database user rights and manipulate data in different ways.

Data Export for Oracle
Export your data to any of 20 most popular data formats, including MS Access, MS Excel, MS Word, PDF, HTML and more.

Data Import for Oracle
Import your data from MS Access, MS Excel and other popular formats to database tables via

user-friendly wizard interface.


Data Pump for Oracle
Migrate from most popular databases (MySQL, PostgreSQL, MySQL, DB2, InterBase/Firebird, etc.) to Oracle


Data Generator for Oracle
Generate test data for database testing purposes in a simple and direct way. Wide range of data generation parameters.


DB Comparer for Oracle
Compare and synchronize the structure of your databases. Move changes on your development database to production with ease.


DB Extract for Oracle
Create database backups in the form of SQL scripts, save your database structure and table data as a whole or partially.


SQL Query for Oracle
Analyze and retrieve your data, build your queries visually, work with query plans, build charts based on retrieved data quickly and more.


Data Comparer for Oracle
Compare and synchronize the contents of your databases. Automate your data migrations from development to production database.

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IBM DB2


SQL Manager for DB2
Simplify and automate your database development process, design, explore and maintain existing databases, build compound SQL query statements, manage database user rights and manipulate data in different ways.


Data Export for DB2
Export your data to any of 20 most popular data formats, including MS Access, MS Excel, MS Word, PDF, HTML and more.


Data Import for DB2
Import your data from MS Access, MS Excel and other popular formats to database tables via user-friendly wizard interface.


Data Pump for DB2
Migrate from most popular databases (MySQL, PostgreSQL, Oracle, MySQL, InterBase/Firebird, etc.) to DB2


Data Generator for DB2
Generate test data for database testing purposes in a simple and direct way. Wide range of data generation parameters.


DB Extract for DB2
Create database backups in the form of SQL scripts, save your database structure and table data as a whole or partially.


SQL Query for DB2
Analyze and retrieve your data, build your queries visually, work with query plans, build charts

based on retrieved data quickly and more.

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Tools & components

Advanced Data Export for RAD Studio VCL
Advanced Data Export for RAD Studio VCL allows you to save your data in the most popular office programs formats.

Advanced Data Export .NET
Advanced Data Export .NET is a component for Microsoft Visual Studio .NET that will allow you to save your data in the most popular data formats for the future viewing, modification, printing or web publication. You can export data into MS Access, MS Excel, MS Word (RTF), PDF, TXT, DBF, CSV and more! There will be no need to waste your time on tiresome data conversion - Advanced Data Export will do the task quickly and will give the result in the desired format.

Advanced Data Import for RAD Studio VCL
Advanced Data Import for RAD Studio VCL will allow you to import your data to the database from files in the most popular data formats.

Advanced PDF Generator for RAD Studio
Advanced PDF Generator for RAD Studio gives you an opportunity to create PDF documents with your applications written on Delphi or C++ Builder.

Advanced Query Builder for RAD Studio VCL
Advanced Query Builder for RAD Studio VCL is a powerful component for Delphi and C++ Builder intended for visual building SQL statements for the SELECT, INSERT, UPDATE and DELETE clauses.

Advanced Excel Report for RAD Studio
Advanced Excel Report for RAD Studio is a powerful band-oriented generator of template-based reports in MS Excel.

Advanced Localizer for RAD Studio VCL
Advanced Localizer for RAD Studio VCL is an indispensable component for Delphi for adding multilingual support to your applications.

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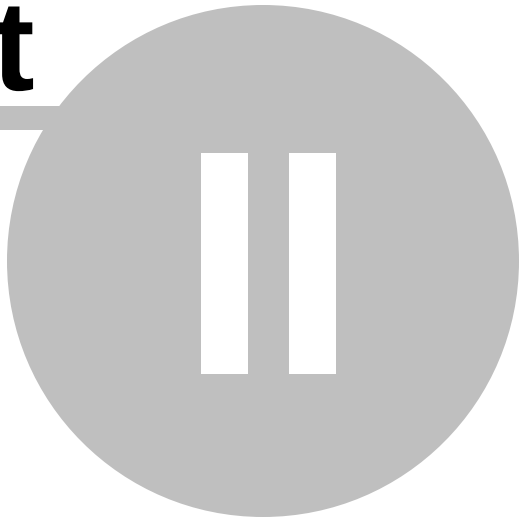
Part



2 Advanced Query Builder

EMS Advanced Query Builder for RAD Studio VCL represents a set of tools for efficient query building.

From a programmer's point of view the suite represents a homomorphic hierarchy of classes with the common ancestor TCustomQueryBuilder. It contains properties and methods which are common for all the descendant classes. Beside the basic properties, methods and events, some specific characteristics are included in descendant classes.

Advanced Query Builder for RAD Studio VCL provides a collection of the following components:

Component	Brief description
TCustomQueryBuilder	Common component for query building
TFullQueryBuilder	Represents complex SQL query. It holds collection of TCustomQueryBuilder components representing single SELECT queries
TSQLQueryBuilder	Provides building queries with standard SQL syntax
TInterBaseQueryBuilder	Provides building queries for InterBase/FireBird
TMySQLQueryBuilder	Provides building queries for MySQL
TPgSQLQueryBuilder	Provides building queries for PostgreSQL
TMSSQLQueryBuilder	Provides building queries for Microsoft® SQL Server™
TDB2QueryBuilder	Provides building queries for DB2
TDBIQueryBuilder	Provides building queries for DBISAM

2.1 TCustomQueryBuilder

2.1.1 TCustomQueryBuilder Reference

Unit
QBWindow

Description

The *TCustomQueryBuilder* component is the basic component of the collection. It contains properties, methods and events that are common for all its descendants.

2.1.2 Properties

Run-time only Key properties

- Aggregates
- Functions
- Images
- Keywords
- Operators
- Options
- Predicates
- Quantifiers
- Palette
- Parser
- SQL
- Style
- TabHeight
- VisibleTabs

2.1.2.1 Aggregates

Applies to
TCustomQueryBuilder component

Declaration
```
property Aggregates: TStrings;
```

Description

The *Aggregates* property contains the list of all the Aggregate functions, available in the 'Grouping criterions' area for use in the query.

See also:
Functions property
Keywords property
Operators property
Predicates property
Quantifiers property

2.1.2.2 Functions

Applies to
TCustomQueryBuilder component

Declaration
```
property Functions: TStrings;
```

Description

The *Functions* property contains the list of the SQL functions, available for use in the query.

See also:
Aggregates property
Keywords property
Operators property
Predicates property
Quantifiers property

2.1.2.3 Keywords

Applies to
TCustomQueryBuilder component

Declaration
```
property Keywords: TStrings;
```

Description

The *Keywords* property contains the list of all the SQL keywords, available for use in the query.

See also:
Aggregates property
Functions property
Operators property
Predicates property
Quantifiers property

2.1.2.4 Operators

Applies to
TCustomQueryBuilder component

Declaration
```
property Operators: TQBOperators;
```

Description

The *Operators* property contains all the operators, available for use in the query.

See also:
Aggregates property
Functions property
Keywords property
Predicates property
Quantifiers property

2.1.2.5 Options

Applies to
TCustomQueryBuilder component

Declaration

```
type
  TQBOptions = set of(qboRowSelect, qboDragFieldName, qboHideSelection, qboShowFieldTy

property Options: TQBOptions;
```

Description

The *Options* property is a set of suboptions which define the following options of the component:

qboRowSelect	selects the whole row in the 'Criteria' area
qboDragFieldName	shows the field name on dragging the field
qboHideSelection	hides the selected items if the object is inactive
qboShowFieldTypes	shows the field types by hint
qboClearTabsOnTypeChange	indicates to clear 'Criterion' tabs when changing type of the query (SELECT, INSERT, etc.)

See also:
Palette property

2.1.2.6 Quantifiers

Applies to
TCustomQueryBuilder component

Declaration
```
property Quantifiers: TStrings;
```

Description

The *Quantifiers* property contains the list of the SQL quantifiers, available for use in the query.

See also:
Aggregates property
Functions property
Keywords property
Operators property
Predicates property

2.1.2.7 Predicates

Applies to
TCustomQueryBuilder component

Declaration
```
property Predicates: TStrings;
```

Description

The *Predicates* property contains the list of the SQL predicates, available for use in the query.

See also:
Aggregates property
Functions property
Keywords property
Operators property
Quantifiers property

2.1.2.8 Palette

Applies to
TCustomQueryBuilder component

Declaration
```
property Palette: TQBPalette;
```

Description

The *Pallete* property defines various colors, used by the component.

See also:
Options property

2.1.2.9 Parser

Applies to
TCustomQueryBuilder component

Declaration
```
property Parser: TQBSelectParser;
```

Description

The *Parser* property is used for parsing the SELECT statement, assigned to the SQL property, for defining different objects (tables, fields, conditions, etc.) used in the query. This property is read-only.

See also:
SQL property

2.1.2.10 SQL

Applies to
TCustomQueryBuilder component

Declaration
```
property SQL: string;
```

Description

The *SQL* property contains the result SQL statement to be executed on the server.

See also:
Parser property

2.1.2.11 Style

Applies to
TCustomQueryBuilder component

Declaration
```
property Style: TQBStyle;
```

Description

The *Style* property defines the appearance of the 'Criterions' area buttons and 'Buider' area objects.

See also:
TQBStyle class

2.1.2.12 TabHeight

Applies to
TCustomQueryBuilder component

Declaration
```
property TabHeight: Integer;
```

Description

The *TabHeight* property defines the height of the condition panels.

See also:
VisibleTabs property

2.1.2.13 VisibleTabs

Applies to
TCustomQueryBuilder component

Declaration

```
type
  TQBVisibleTab = (qbtCriterions, qbtSelection, qbtGroupCriterions, qbtSorting, qbtDat
  TQBVisibleTabs = set of TQBVisibleTab;

property VisibleTabs: TQBVisibleTabs;
```

Description

The *VisibleTabs* property defines which of the Advanced QueryBuilder tabs ('Criterions', 'Selection', Grouping Criterions', 'Sorting', 'Data') are visible.

See also:
TabHeight property

2.1.3 Methods

Key methods

- DoAddRemoveLink
- DoAddRemoveTable
- BeginReload
- Clear
- EndReload

2.1.3.1 DoAddRemoveLink

Applies to
TCustomQueryBuilder component

Declaration

```
type
  TQBAction = (qbaAdd, qbaRemove);

function DoAddRemoveLink(Link: TQBLink; Action: TQBAction): Boolean;
```

Description

Use the *DoAddRemoveLink* method to add or remove link to the work area. The Link parameter is the TQBLink object, which defines the properties of the link to add or remove. If Action is qbaAdd, then the link, specified by the Link parameter, is being added to the work area, otherwise it's being removed.

See also:
DoAddRemoveTable method

2.1.3.2 DoAddRemoveTable

Applies to
TCustomQueryBuilder component

Declaration

```
type
  TQBAction = (qbaAdd, qbaRemove);

function DoAddRemoveTable(Table: TQBTable; Action: TQBAction): Boolean;
```

Description

Use the *DoAddRemoveTable* method to add or remove table to the work area. The Table parameter is the TQBTtable object, which defines the properties of the table to add or remove. If Action is qbaAdd, then the table, specified by the Table parameter, is being added to the work area, otherwise it's being removed.

See also:
DoAddRemoveLink method

2.1.3.3 BeginReload

Applies to
TCustomQueryBuilder component

Declaration
```
procedure BeginReload; virtual;
```

Description

The *BeginReload* method prepares the 'Criterions' and 'Grouping Criterions' areas for making any changes. You must call this method each time you want to change the Operators property and call EndReload when all the changes are done.

See also:
Operators property
EndReload method

2.1.3.4 Clear

Applies to
TCustomQueryBuilder component

Declaration
```
procedure Clear;
```

Description

The *Clear* method clears the work area and all the condition panels.

See also:
DoAddRemoveLink method
DoAddRemoveTable method

2.1.3.5 EndReload

Applies to
TCustomQueryBuilder component

Declaration
```
procedure EndReload; virtual;
```

Description

The *EndReload* method should be called when the changes in the 'Criterions' panel, started by the BeginReload method are done.

See also:
Operators property
BeginReload method

2.1.4 Events

Key events

- OnAddRemoveLink
- OnAddRemoveTable
- OnEnterProcParameter
- OnGetTableFields
- OnParserError

2.1.4.1 OnAddRemoveLink

Applies to
TCustomQueryBuilder component

Declaration

```
type
  TQBAction = (qbaAdd, qbaRemove);
  TAddRemoveLinkEvent = procedure(Sender: TObject; Link: TQBLink; Action: TQBAction; v

property OnAddRemoveLink: TAddRemoveLinkEvent;
```

Description

The *OnAddRemoveLink* event takes place when a link is added/removed to/from the component work area. The Link parameter defines the properties of the link to add/remove. Action defines if the link is added or removed. Output parameter Accept allows you to forbid or permit action.

See also:
OnAddRemoveTable event

2.1.4.2 OnAddRemoveTable

Applies to
TCustomQueryBuilder component

Declaration

```
type
  TQBAction = (qbaAdd, qbaRemove);
  TAddRemoveTableEvent = procedure(Sender: TObject; Table: TQBTable; Action: TQBActio

property OnAddRemoveTable: TAddRemoveTableEvent;
```

Description

The *OnAddRemoveTable* event takes place when a table is added/removed to/from the component work area. The Table parameter defines the properties of the table to add/remove. Action defines if the table is added or removed. Output parameter Accept allows you to forbid or permit action.

See also:
OnAddRemoveLink event

2.1.4.3 OnEnterProcParameter

Applies to
TCustomQueryBuilder component

Declaration

```
type
  TEnterProcParameter = procedure(Sender: TObject; SProcedure: TQBTable; ListItem: TQ

property OnEnterProcParameter: TEnterProcParameter;
```

Description

The *OnEnterProcParameter* event takes place before the procedure input parameter is added.

See also:
OnGetTableFields event

2.1.4.4 OnGetTableFields

Applies to
TCustomQueryBuilder component

Declaration

```
type
  TGetTableFieldsEvent = procedure(const NameOfTable: string; var ADataSet: TDataSet;

property OnGetTableFields: TGetTableFieldsEvent;
```

Description

The *OnGetTableFields* event takes place, when you set the SQL property in run-time. Constant parameter NameOfTable is the table name, used in the SELECT ... FROM statement. Using parameter ADataSet you can define the dataset, containing data to select from, and using AParams you can define the dataset parameters.

See also:
OnEnterProcParameter

2.1.4.5 OnParserError

Applies to
TCustomQueryBuilder component

Declaration
```
property OnParserError: TQBParserErrorEvent;
```

Description

The *OnParserError* event takes place when parsing the SQL property causes an error in the TQBParser object. When error occurs, you receive the following information: error code, line number, line position and token.

See also:
Parser property
SQL property

2.2 TFullQueryBuilder

2.2.1 TFullQueryBuilder Reference

Unit
QBWindow

Description

The *TFullQueryBuilder* component representing complex SQL query. It holds collection of TCustomQueryBuilder components representing single SELECT queries.

2.2.2 Properties

Run-time only Key properties

- TypeQuery
- OnlySelect
- UnionAllByDefault
- QueryBuilders
- Aggregates
- Functions
- Keywords
- Operators
- Predicates
- Quantifiers
- Options
- Palette
- QuoteIdentifiers
- Style
- TabHeight
- VisibleTabs

2.2.2.1 TypeQuery

Applies to
TFullQueryBuilder component

Declaration

```
type
      TQBTypeQuery = (tqSelect, tqInsert, tqUpdate, tqDelete);
property TypeQuery: TQBTypeQuery;
```

Description

The *TypeQuery* property determines SQL statement represented by the component. There are SELECT, INSERT, UPDATE and DELETE statements availiable for building.

See also:
OnlySelect property
UnionAllByDefault property

2.2.2.2 OnlySelect

Applies to
TFullQueryBuilder component

Declaration
```
property OnlySelect: Boolean;
```

Description

The *OnlySelect* property restricts building INSERT, UPDATE and DELETE SQL statements being set to True.

See also:
TypeQuery property
UnionAllByDefault property

2.2.2.3 UnionAllByDefault

Applies to
TFullQueryBuilder component

Declaration
```
property UnionAllByDefault: Boolean;
```

Description

The *UnionAllByDefault* property specifies type of combining results of two joined SELECT statements. While set to True the default type is UNION ALL, otherwise - UNION.

See also:
OnlySelect property
TypeQuery property

2.2.2.4 QueryBuilders

Applies to
TFullQueryBuilder component

Declaration
```
property QueryBuilders: TQueryBuilders;
```

Description

The *QueryBuilders* property is collection of TQueryBuilder components. Each item in this collection represents single SELECT SQL statement.

See also:
AddQureyBuilder method
DeleteQuueryBuilder metod
SetActiveQureyBuilder method
OnAddQuuery event

2.2.3 Methods

Key methods

- AddQueryBuilder
- DeleteQueryBuilder
- SetActiveQueryBuilder
- DoAddRemoveLink
- DoAddRemoveTable
- BeginReload
- Clear
- EndReload

2.2.3.1 AddQueryBuilder

Applies to
TFullQueryBuilder component

Declaration
```
function AddQueryBuilder(AddUnion: Boolean): TCustomQueryBuilder;
```

Description

Call *AddQueryBuilder* method to create new TQueryBuilder component representing single SELECT SQL statement. Set AddUnion parameter to True if you want to add union subquery. Set AddUnion to False if you want to add derived subquery.

See also:
QueryBuilders property
DeleteQuueryBuilder metod
SetActiveQureyBuilder method
OnAddQuuery event

2.2.3.2 DeleteQueryBuilder

Applies to
TFullQueryBuilder component

Declaration
```
procedure DeleteQueryBuilder(AName: String);
```

Description

Call *DeleteQueryBuilder* method to remove existing TQueryBuilder component representing single SELECT SQL statement. AName parameter is the Name property of removed component.

See also:
QueryBuilders property
AddQureyBuilder method
SetActiveQureyBuilder method
OnAddQuuery event

2.2.3.3 SetActiveQueryBuilder

Applies to
TFullQueryBuilder component

Declaration
```
procedure SetActiveQueryBuilder(AName: String);
```

Description

Call *SetActiveQueryBuilder* method to display particular TQueryBuilder component representing single SELECT SQL statement. AName parameter is the Name property of displayed component.

See also:
QueryBuilders property
AddQureyBuilder method
DeleteQuueryBuilder metod
OnAddQuuery event

2.2.4 Events

Key events

- OnAddQuery
- OnAddRemoveLink
- OnAddRemoveTable
- OnEnterProcParameter
- OnGetTableFields
- OnParseError

2.2.4.1 OnAddQuery

Applies to
TFullQueryBuilder component

Declaration
```
property OnAddQuery: TNotifyEvent;
```

Description

The *OnAddQuery* event takes place when a new TQueryBuilder component is added to the QueryBuilders collection.i

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See also:
QueryBuilders property
AddQureyBuilder method
DeleteQuueryBuilder metod
SetActiveQureyBuilder method

2.3 TSQLQueryBuilder

2.3.1 TSQLQueryBuilder Reference

Unit
QBWindow

Description

The *TSQLQueryBuilder* component is intended for creating SELECT statements based on the standard SQL syntax (ANSI 92). It can be used, for example, for working with BDE objects.

2.3.2 Properties

Run-time only Key properties

- Aggregates
- Functions
- Keywords
- Operators
- Predicates
- Quantifiers
- Options
- Palette
- QuoteIdentifiers
- Style
- TabHeight
- VisibleTabs

2.3.2.1 Aggregates

Applies to
TCustomQueryBuilder component

Declaration
```
property Aggregates: TStrings;
```

Description

The *Aggregates* property contains the list of all the Aggregate functions, available in the 'Grouping criterions' area for use in the query.

See also:
Functions property
Keywords property
Operators property
Predicates property
Quantifiers property

2.3.2.2 Functions

Applies to
TCustomQueryBuilder component

Declaration
```
property Functions: TStrings;
```

Description

The *Functions* property contains the list of the SQL functions, available for use in the query.

See also:
Aggregates property
Keywords property
Operators property
Predicates property
Quantifiers property

2.3.2.3 Keywords

Applies to
TCustomQueryBuilder component

Declaration
```
property Keywords: TStrings;
```

Description

The *Keywords* property contains the list of all the SQL keywords, available for use in the query.

See also:
Aggregates property
Functions property
Operators property
Predicates property
Quantifiers property

2.3.2.4 Operators

Applies to
TCustomQueryBuilder component

Declaration
```
property Operators: TQBOperators;
```

Description

The *Operators* property contains all the operators, available for use in the query.

See also:
Aggregates property
Functions property
Keywords property
Predicates property
Quantifiers property

2.3.2.5 Options

Applies to
TCustomQueryBuilder component

Declaration

```
type
  TQBOptions = set of(qboRowSelect, qboDragFieldName, qboHideSelection, qboShowFieldTy

property Options: TQBOptions;
```

Description

The *Options* property is a set of suboptions which define the following options of the component:

qboRowSelect	selects the whole row in the 'Criteria' area
qboDragFieldName	shows the field name on dragging the field
qboHideSelection	hides the selected items if the object is inactive
qboShowFieldTypes	shows the field types by hint
qboClearTabsOnTypeChange	indicates to clear 'Criterion' tabs when changing type of the query (SELECT, INSERT, etc.)

See also:
Palette property

2.3.2.6 Palette

Applies to
TCustomQueryBuilder component

Declaration
```
property Palette: TQBPalette;
```

Description

The *Pallete* property defines various colors, used by the component.

See also:
Options property

2.3.2.7 QuoteIdentifiers

Applies to
TSQLQueryBuilder component

Declaration
```
property QuoteIdentifiers: boolean;
```

Description

If property *QuoteIdentifiers* is true, then all the identifiers are quoted when the script is generated.

2.3.2.8 Style

Applies to
TCustomQueryBuilder component

Declaration
```
property Style: TQBStyle;
```

Description

The *Style* property defines the appearance of the 'Criterions' area buttons and 'Buider' area objects.

See also:
TQBStyle class

2.3.2.9 TabHeight

Applies to
TCustomQueryBuilder component

Declaration
```
property TabHeight: Integer;
```

Description

The *TabHeight* property defines the height of the condition panels.

See also:
VisibleTabs property

2.3.2.10 VisibleTabs

Applies to
TCustomQueryBuilder component

Declaration

```
type
  TQBVisibleTab = (qbtCriterions, qbtSelection, qbtGroupCriterions, qbtSorting, qbtDat
  TQBVisibleTabs = set of TQBVisibleTab;

property VisibleTabs: TQBVisibleTabs;
```

Description

The *VisibleTabs* property defines which of the Advanced QueryBuilder tabs ('Criterions', 'Selection', Grouping Criterions', 'Sorting', 'Data') are visible.

See also:
TabHeight property

2.3.3 Methods

Key methods

- DoAddRemoveLink
- DoAddRemoveTable
- BeginReload
- Clear
- EndReload

2.3.3.1 DoAddRemoveLink

Applies to
TCustomQueryBuilder component

Declaration

```
type
  TQBAction = (qbaAdd, qbaRemove);

function DoAddRemoveLink(Link: TQBLink; Action: TQBAction): Boolean;
```

Description

Use the *DoAddRemoveLink* method to add or remove link to the work area. The Link parameter is the TQBLink object, which defines the properties of the link to add or remove. If Action is qbaAdd, then the link, specified by the Link parameter, is being added to the work area, otherwise it's being removed.

See also:
DoAddRemoveTable method

2.3.3.2 DoAddRemoveTable

Applies to
TCustomQueryBuilder component

Declaration

```
type
  TQBAction = (qbaAdd, qbaRemove);

function DoAddRemoveTable(Table: TQBTable; Action: TQBAction): Boolean;
```

Description

Use the *DoAddRemoveTable* method to add or remove table to the work area. The Table parameter is the TQBTtable object, which defines the properties of the table to add or remove. If Action is qbaAdd, then the table, specified by the Table parameter, is being added to the work area, otherwise it's being removed.

See also:
DoAddRemoveLink method

2.3.3.3 BeginReload

Applies to
TCustomQueryBuilder component

Declaration
```
procedure BeginReload; virtual;
```

Description

The *BeginReload* method prepares the 'Criterions' and 'Grouping Criterions' areas for making any changes. You must call this method each time you want to change the Operators property and call EndReload when all the changes are done.

See also:
Operators property
EndReload method

2.3.3.4 Clear

Applies to
TCustomQueryBuilder component

Declaration
```
procedure Clear;
```

Description

The *Clear* method clears the work area and all the condition panels.

See also:
DoAddRemoveLink method
DoAddRemoveTable method

2.3.3.5 EndReload

Applies to
TCustomQueryBuilder component

Declaration
```
procedure EndReload; virtual;
```

Description

The *EndReload* method should be called when the changes in the 'Criterions' panel, started by the BeginReload method are done.

See also:
Operators property
BeginReload method

2.3.4 Events

Key events

- OnAddRemoveLink
- OnAddRemoveTable
- OnEnterProcParameter
- OnGetTableFields
- OnParserError

2.3.4.1 OnAddRemoveLink

Applies to
TCustomQueryBuilder component

Declaration

```
type
  TQBAction = (qbaAdd, qbaRemove);
  TAddRemoveLinkEvent = procedure(Sender: TObject; Link: TQBLink; Action: TQBAction; v

property OnAddRemoveLink: TAddRemoveLinkEvent;
```

Description

The *OnAddRemoveLink* event takes place when a link is added/removed to/from the component work area. The Link parameter defines the properties of the link to add/remove. Action defines if the link is added or removed. Output parameter Accept allows you to forbid or permit action.

See also:
OnAddRemoveTable event

2.3.4.2 OnAddRemoveTable

Applies to
TCustomQueryBuilder component

Declaration

```
type
  TQBAction = (qbaAdd, qbaRemove);
  TAddRemoveTableEvent = procedure(Sender: TObject; Table: TQBTable; Action: TQBActio

property OnAddRemoveTable: TAddRemoveTableEvent;
```

Description

The *OnAddRemoveTable* event takes place when a table is added/removed to/from the component work area. The Table parameter defines the properties of the table to add/remove. Action defines if the table is added or removed. Output parameter Accept allows you to forbid or permit action.

See also:
OnAddRemoveLink event

2.3.4.3 OnEnterProcParameter

Applies to
TCustomQueryBuilder component

Declaration

```
type
  TEnterProcParameter = procedure(Sender: TObject; SProcedure: TQBTable; ListItem: TQE

property OnEnterProcParameter: TEnterProcParameter;
```

Description

The *OnEnterProcParameter* event takes place before the procedure input parameter is added.

See also:
OnGetTableFields event

2.3.4.4 OnGetTableFields

Applies to
TCustomQueryBuilder component

Declaration

```
type
  TGetTableFieldsEvent = procedure(const NameOfTable: string; var ADataSet: TDataSet;

property OnGetTableFields: TGetTableFieldsEvent;
```

Description

The *OnGetTableFields* event takes place, when you set the SQL property in run-time. Constant parameter NameOfTable is the table name, used in the SELECT ... FROM statement. Using parameter ADataSet you can define the dataset, containing data to select from, and using AParams you can define the dataset parameters.

See also:
OnEnterProcParameter

2.3.4.5 OnParserError

Applies to
TCustomQueryBuilder component

Declaration
```
property OnParserError: TQBParserErrorEvent;
```

Description

The *OnParserError* event takes place when parsing the SQL property causes an error in the TQBParser object. When error occurs, you receive the following information: error code, line number, line position and token.

See also:
Parser property
SQL property

2.4 TInterBaseQueryBuilder

2.4.1 TInterBaseQueryBuilder Reference

Unit
QBIBWindow

Description

The *TInterBaseQueryBuilder* component is intended for creating queries from InterBase/ FireBird tables.

2.4.2 Properties

Run-time only Key properties

- Aggregates
- Functions
- Keywords
- Operators
- Options
- Palette
- SQLDialect
- SQLServer
- Style
- TabHeight
- VisibleTabs

2.4.2.1 Aggregates

Applies to
TCustomQueryBuilder component

Declaration
```
property Aggregates: TStrings;
```

Description

The *Aggregates* property contains the list of all the Aggregate functions, available in the 'Grouping criterions' area for use in the query.

See also:
Functions property
Keywords property
Operators property
Predicates property
Quantifiers property

2.4.2.2 Functions

Applies to
TCustomQueryBuilder component

Declaration
```
property Functions: TStrings;
```

Description

The *Functions* property contains the list of the SQL functions, available for use in the query.

See also:
Aggregates property
Keywords property
Operators property
Predicates property
Quantifiers property

2.4.2.3 Keywords

Applies to
TCustomQueryBuilder component

Declaration
```
property Keywords: TStrings;
```

Description

The *Keywords* property contains the list of all the SQL keywords, available for use in the query.

See also:
Aggregates property
Functions property
Operators property
Predicates property
Quantifiers property

2.4.2.4 Operators

Applies to
TCustomQueryBuilder component

Declaration
```
property Operators: TQBOperators;
```

Description

The *Operators* property contains all the operators, available for use in the query.

See also:
Aggregates property
Functions property
Keywords property
Predicates property
Quantifiers property

2.4.2.5 Options

Applies to
TCustomQueryBuilder component

Declaration

```
type
  TQBOptions = set of(qboRowSelect, qboDragFieldName, qboHideSelection, qboShowFieldTy

property Options: TQBOptions;
```

Description

The *Options* property is a set of suboptions which define the following options of the component:

qboRowSelect	selects the whole row in the 'Criteria' area
qboDragFieldName	shows the field name on dragging the field
qboHideSelection	hides the selected items if the object is inactive
qboShowFieldTypes	shows the field types by hint
qboClearTabsOnTypeChange	indicates to clear 'Criterion' tabs when changing type of the query (SELECT, INSERT, etc.)

See also:
Palette property

2.4.2.6 Palette

Applies to
TCustomQueryBuilder component

Declaration
```
property Palette: TQBPalette;
```

Description

The *Pallete* property defines various colors, used by the component.

See also:
Options property

2.4.2.7 SQLDialect

Applies to
TInterBaseQueryBuilder component

Declaration

```
type
  TQBSQLDialect = (qibDialect1, qibDialect3);

property SQLDialect: TQBSQLDialect;
```

Description

The *SQLDialect* property defines, which SQL dialect - Dialect 1 or Dialect 3 should be used.

See also:
SQLServer property

2.4.2.8 SQLServer

Applies to
TInterBaseQueryBuilder component

Declaration

```
type
  TQBIBSQLServer = (qssInterBase, qssFireBird);

property SQLServer: TQBIBSQLServer;
```

Description

The *SQLServer* property defines which database server is used - InterBase or Firebird.

See also:
SQLDialect property

2.4.2.9 Style

Applies to
TCustomQueryBuilder component

Declaration
```
property Style: TQBStyle;
```

Description

The *Style* property defines the appearance of the 'Criterions' area buttons and 'Buider' area objects.

See also:
TQBStyle class

2.4.2.10 TabHeight

Applies to
TCustomQueryBuilder component

Declaration
```
property TabHeight: Integer;
```

Description

The *TabHeight* property defines the height of the condition panels.

See also:
VisibleTabs property

2.4.2.11 VisibleTabs

Applies to
TCustomQueryBuilder component

Declaration

```
type
  TQBVisibleTab = (qbtCriterions, qbtSelection, qbtGroupCriterions, qbtSorting, qbtDat
  TQBVisibleTabs = set of TQBVisibleTab;

property VisibleTabs: TQBVisibleTabs;
```

Description

The *VisibleTabs* property defines which of the Advanced QueryBuilder tabs ('Criterions', 'Selection', Grouping Criterions', 'Sorting', 'Data') are visible.

See also:
TabHeight property

2.4.3 Methods

Key methods

- DoAddRemoveLink
- DoAddRemoveTable
- BeginReload
- Clear
- EndReload

2.4.3.1 DoAddRemoveLink

Applies to
TCustomQueryBuilder component

Declaration

```
type
  TQBAction = (qbaAdd, qbaRemove);

function DoAddRemoveLink(Link: TQBLink; Action: TQBAction): Boolean;
```

Description

Use the *DoAddRemoveLink* method to add or remove link to the work area. The Link parameter is the TQBLink object, which defines the properties of the link to add or remove. If Action is qbaAdd, then the link, specified by the Link parameter, is being added to the work area, otherwise it's being removed.

See also:
DoAddRemoveTable method

2.4.3.2 DoAddRemoveTable

Applies to
TCustomQueryBuilder component

Declaration

```
type
  TQBAction = (qbaAdd, qbaRemove);

function DoAddRemoveTable(Table: TQBTable; Action: TQBAction): Boolean;
```

Description

Use the *DoAddRemoveTable* method to add or remove table to the work area. The Table parameter is the TQBTtable object, which defines the properties of the table to add or remove. If Action is qbaAdd, then the table, specified by the Table parameter, is being added to the work area, otherwise it's being removed.

See also:
DoAddRemoveLink method

2.4.3.3 BeginReload

Applies to
TCustomQueryBuilder component

Declaration
```
procedure BeginReload; virtual;
```

Description

The *BeginReload* method prepares the 'Criterions' and 'Grouping Criterions' areas for making any changes. You must call this method each time you want to change the Operators property and call EndReload when all the changes are done.

See also:
Operators property
EndReload method

2.4.3.4 Clear

Applies to
TCustomQueryBuilder component

Declaration
```
procedure Clear;
```

Description

The *Clear* method clears the work area and all the condition panels.

See also:
DoAddRemoveLink method
DoAddRemoveTable method

2.4.3.5 EndReload

Applies to
TCustomQueryBuilder component

Declaration
```
procedure EndReload; virtual;
```

Description

The *EndReload* method should be called when the changes in the 'Criterions' panel, started by the BeginReload method are done.

See also:
Operators property
BeginReload method

2.4.4 Events

Key events

- OnAddRemoveLink
- OnAddRemoveTable
- OnEnterProcParameter
- OnGetTableFields
- OnParserError

2.4.4.1 OnAddRemoveLink

Applies to
TCustomQueryBuilder component

Declaration

```
type
  TQBAction = (qbaAdd, qbaRemove);
  TAddRemoveLinkEvent = procedure(Sender: TObject; Link: TQBLink; Action: TQBAction; v

property OnAddRemoveLink: TAddRemoveLinkEvent;
```

Description

The *OnAddRemoveLink* event takes place when a link is added/removed to/from the component work area. The Link parameter defines the properties of the link to add/remove. Action defines if the link is added or removed. Output parameter Accept allows you to forbid or permit action.

See also:
OnAddRemoveTable event

2.4.4.2 OnAddRemoveTable

Applies to
TCustomQueryBuilder component

Declaration

```
type
  TQBAction = (qbaAdd, qbaRemove);
  TAddRemoveTableEvent = procedure(Sender: TObject; Table: TQBTable; Action: TQBActio

property OnAddRemoveTable: TAddRemoveTableEvent;
```

Description

The *OnAddRemoveTable* event takes place when a table is added/removed to/from the component work area. The Table parameter defines the properties of the table to add/remove. Action defines if the table is added or removed. Output parameter Accept allows you to forbid or permit action.

See also:
OnAddRemoveLink event

2.4.4.3 OnEnterProcParameter

Applies to
TCustomQueryBuilder component

Declaration

```
type
  TEnterProcParameter = procedure(Sender: TObject; SProcedure: TQBTable; ListItem: TQ

property OnEnterProcParameter: TEnterProcParameter;
```

Description

The *OnEnterProcParameter* event takes place before the procedure input parameter is added.

See also:
OnGetTableFields event

2.4.4.4 OnGetTableFields

Applies to
TCustomQueryBuilder component

Declaration

```
type
  TGetTableFieldsEvent = procedure(const NameOfTable: string; var ADataSet: TDataSet;

property OnGetTableFields: TGetTableFieldsEvent;
```

Description

The *OnGetTableFields* event takes place, when you set the SQL property in run-time. Constant parameter NameOfTable is the table name, used in the SELECT ... FROM statement. Using parameter ADataSet you can define the dataset, containing data to select from, and using AParams you can define the dataset parameters.

See also:
OnEnterProcParameter

2.4.4.5 OnParserError

Applies to
TCustomQueryBuilder component

Declaration
```
property OnParserError: TQBParserErrorEvent;
```

Description

The *OnParserError* event takes place when parsing the SQL property causes an error in the TQBParser object. When error occurs, you receive the following information: error code, line number, line position and token.

See also:
Parser property
SQL property

2.5 TMySQLQueryBuilder

2.5.1 TMySQLQueryBuilder Reference

Unit
QBMyWindow

Description

The *TMySQLQueryBuilder* component is used for creating queries from the MySQL tables.

2.5.2 Properties

Run-time only Key properties

Aggregates
Functions
Keywords
Operators
Options
Palette
QuoteIdentifiers
Style
TabHeight
VisibleTabs

2.5.2.1 Aggregates

Applies to
TCustomQueryBuilder component

Declaration
```
property Aggregates: TStrings;
```

Description

The *Aggregates* property contains the list of all the Aggregate functions, available in the 'Grouping criterions' area for use in the query.

See also:
Functions property
Keywords property
Operators property
Predicates property
Quantifiers property

2.5.2.2 Functions

Applies to
TCustomQueryBuilder component

Declaration
```
property Functions: TStrings;
```

Description

The *Functions* property contains the list of the SQL functions, available for use in the query.

See also:
Aggregates property
Keywords property
Operators property
Predicates property
Quantifiers property

2.5.2.3 Keywords

Applies to
TCustomQueryBuilder component

Declaration
```
property Keywords: TStrings;
```

Description

The *Keywords* property contains the list of all the SQL keywords, available for use in the query.

See also:
Aggregates property
Functions property
Operators property
Predicates property
Quantifiers property

2.5.2.4 Operators

Applies to
TCustomQueryBuilder component

Declaration
```
property Operators: TQBOperators;
```

Description

The *Operators* property contains all the operators, available for use in the query.

See also:
Aggregates property
Functions property
Keywords property
Predicates property
Quantifiers property

2.5.2.5 Options

Applies to
TCustomQueryBuilder component

Declaration

```
type
  TQBOptions = set of(qboRowSelect, qboDragFieldName, qboHideSelection, qboShowFieldTy

property Options: TQBOptions;
```

Description

The *Options* property is a set of suboptions which define the following options of the component:

qboRowSelect	selects the whole row in the 'Criteria' area
qboDragFieldName	shows the field name on dragging the field
qboHideSelection	hides the selected items if the object is inactive
qboShowFieldTypes	shows the field types by hint
qboClearTabsOnTypeChange	indicates to clear 'Criterion' tabs when changing type of the query (SELECT, INSERT, etc.)

See also:
Palette property

2.5.2.6 Palette

Applies to
TCustomQueryBuilder component

Declaration
```
property Palette: TQBPalette;
```

Description

The *Pallete* property defines various colors, used by the component.

See also:
Options property

2.5.2.7 QuoteIdentifiers

Applies to
TSQLQueryBuilder component

Declaration
```
property QuoteIdentifiers: boolean;
```

Description

If property *QuoteIdentifiers* is true, then all the identifiers are quoted when the script is generated.

2.5.2.8 Style

Applies to
TCustomQueryBuilder component

Declaration
```
property Style: TQBStyle;
```

Description

The *Style* property defines the appearance of the 'Criterions' area buttons and 'Buider' area objects.

See also:
TQBStyle class

2.5.2.9 TabHeight

Applies to
TCustomQueryBuilder component

Declaration
```
property TabHeight: Integer;
```

Description

The *TabHeight* property defines the height of the condition panels.

See also:
VisibleTabs property

2.5.2.10 VisibleTabs

Applies to
TCustomQueryBuilder component

Declaration

```
type
  TQBVisibleTab = (qbtCriterions, qbtSelection, qbtGroupCriterions, qbtSorting, qbtDat
  TQBVisibleTabs = set of TQBVisibleTab;

property VisibleTabs: TQBVisibleTabs;
```

Description

The *VisibleTabs* property defines which of the Advanced QueryBuilder tabs ('Criterions', 'Selection', Grouping Criterions', 'Sorting', 'Data') are visible.

See also:
TabHeight property

2.5.3 Methods

Key methods

- DoAddRemoveLink
- DoAddRemoveTable
- BeginReload
- Clear
- EndReload

2.5.3.1 DoAddRemoveLink

Applies to
TCustomQueryBuilder component

Declaration

```
type
  TQBAction = (qbaAdd, qbaRemove);

function DoAddRemoveLink(Link: TQBLink; Action: TQBAction): Boolean;
```

Description

Use the *DoAddRemoveLink* method to add or remove link to the work area. The Link parameter is the TQBLink object, which defines the properties of the link to add or remove. If Action is qbaAdd, then the link, specified by the Link parameter, is being added to the work area, otherwise it's being removed.

See also:
DoAddRemoveTable method

2.5.3.2 DoAddRemoveTable

Applies to
TCustomQueryBuilder component

Declaration

```
type
  TQBAction = (qbaAdd, qbaRemove);

function DoAddRemoveTable(Table: TQBTable; Action: TQBAction): Boolean;
```

Description

Use the *DoAddRemoveTable* method to add or remove table to the work area. The Table parameter is the TQBTtable object, which defines the properties of the table to add or remove. If Action is qbaAdd, then the table, specified by the Table parameter, is being added to the work area, otherwise it's being removed.

See also:
DoAddRemoveLink method

2.5.3.3 BeginReload

Applies to
TCustomQueryBuilder component

Declaration
```
procedure BeginReload; virtual;
```

Description

The *BeginReload* method prepares the 'Criterions' and 'Grouping Criterions' areas for making any changes. You must call this method each time you want to change the Operators property and call EndReload when all the changes are done.

See also:
Operators property
EndReload method

2.5.3.4 Clear

Applies to
TCustomQueryBuilder component

Declaration
```
procedure Clear;
```

Description

The *Clear* method clears the work area and all the condition panels.

See also:
DoAddRemoveLink method
DoAddRemoveTable method

2.5.3.5 EndReload

Applies to
TCustomQueryBuilder component

Declaration
```
procedure EndReload; virtual;
```

Description

The *EndReload* method should be called when the changes in the 'Criterions' panel, started by the BeginReload method are done.

See also:
Operators property
BeginReload method

2.5.4 Events

Key events

- OnAddRemoveLink
- OnAddRemoveTable
- OnEnterProcParameter
- OnGetTableFields
- OnParserError

2.5.4.1 OnAddRemoveLink

Applies to
TCustomQueryBuilder component

Declaration

```
type
  TQBAction = (qbaAdd, qbaRemove);
  TAddRemoveLinkEvent = procedure(Sender: TObject; Link: TQBLink; Action: TQBAction; v

property OnAddRemoveLink: TAddRemoveLinkEvent;
```

Description

The *OnAddRemoveLink* event takes place when a link is added/removed to/from the component work area. The Link parameter defines the properties of the link to add/remove. Action defines if the link is added or removed. Output parameter Accept allows you to forbid or permit action.

See also:
OnAddRemoveTable event

2.5.4.2 OnAddRemoveTable

Applies to
TCustomQueryBuilder component

Declaration

```
type
  TQBAction = (qbaAdd, qbaRemove);
  TAddRemoveTableEvent = procedure(Sender: TObject; Table: TQBTable; Action: TQBActio

property OnAddRemoveTable: TAddRemoveTableEvent;
```

Description

The *OnAddRemoveTable* event takes place when a table is added/removed to/from the component work area. The Table parameter defines the properties of the table to add/remove. Action defines if the table is added or removed. Output parameter Accept allows you to forbid or permit action.

See also:
OnAddRemoveLink event

2.5.4.3 OnEnterProcParameter

Applies to
TCustomQueryBuilder component

Declaration

```
type
  TEnterProcParameter = procedure(Sender: TObject; SProcedure: TQBTable; ListItem: TQ

property OnEnterProcParameter: TEnterProcParameter;
```

Description

The *OnEnterProcParameter* event takes place before the procedure input parameter is added.

See also:
OnGetTableFields event

2.5.4.4 OnGetTableFields

Applies to
TCustomQueryBuilder component

Declaration

```
type
  TGetTableFieldsEvent = procedure(const NameOfTable: string; var ADataSet: TDataSet;

property OnGetTableFields: TGetTableFieldsEvent;
```

Description

The *OnGetTableFields* event takes place, when you set the SQL property in run-time. Constant parameter NameOfTable is the table name, used in the SELECT ... FROM statement. Using parameter ADataSet you can define the dataset, containing data to select from, and using AParams you can define the dataset parameters.

See also:
OnEnterProcParameter

2.5.4.5 OnParserError

Applies to
TCustomQueryBuilder component

Declaration
```
property OnParserError: TQBParserErrorEvent;
```

Description

The *OnParserError* event takes place when parsing the SQL property causes an error in the TQBParser object. When error occurs, you receive the following information: error code, line number, line position and token.

See also:
Parser property
SQL property

2.6 TPgSQLQueryBuilder

2.6.1 TPgSQLQueryBuilder Reference

Unit
QBPgWindow

Description

The *TPgSQLQueryBuilder* component is used for creating queries from the PostgreSQL tables.

2.6.2 Properties

Run-time only Key properties

- Aggregates
- Functions
- Keywords
- Operators
- Options
- Palette
- Style
- TabHeight
- UseNamespaces
- VisibleTabs

2.6.2.1 Aggregates

Applies to
TCustomQueryBuilder component

Declaration
```
property Aggregates: TStrings;
```

Description

The *Aggregates* property contains the list of all the Aggregate functions, available in the 'Grouping criterions' area for use in the query.

See also:
Functions property
Keywords property
Operators property
Predicates property
Quantifiers property

2.6.2.2 Functions

Applies to
TCustomQueryBuilder component

Declaration
```
property Functions: TStrings;
```

Description

The *Functions* property contains the list of the SQL functions, available for use in the query.

See also:
Aggregates property
Keywords property
Operators property
Predicates property
Quantifiers property

2.6.2.3 Keywords

Applies to
TCustomQueryBuilder component

Declaration
```
property Keywords: TStrings;
```

Description

The *Keywords* property contains the list of all the SQL keywords, available for use in the query.

See also:
Aggregates property
Functions property
Operators property
Predicates property
Quantifiers property

2.6.2.4 Operators

Applies to
TCustomQueryBuilder component

Declaration
```
property Operators: TQBOperators;
```

Description

The *Operators* property contains all the operators, available for use in the query.

See also:
Aggregates property
Functions property
Keywords property
Predicates property
Quantifiers property

2.6.2.5 Options

Applies to
TCustomQueryBuilder component

Declaration

```
type
  TQBOptions = set of(qboRowSelect, qboDragFieldName, qboHideSelection, qboShowFieldTy

property Options: TQBOptions;
```

Description

The *Options* property is a set of suboptions which define the following options of the component:

qboRowSelect	selects the whole row in the 'Criteria' area
qboDragFieldName	shows the field name on dragging the field
qboHideSelection	hides the selected items if the object is inactive
qboShowFieldTypes	shows the field types by hint
qboClearTabsOnTypeChange	indicates to clear 'Criterion' tabs when changing type of the query (SELECT, INSERT, etc.)

See also:
Palette property

2.6.2.6 Palette

Applies to
TCustomQueryBuilder component

Declaration
```
property Palette: TQBPalette;
```

Description

The *Pallete* property defines various colors, used by the component.

See also:
Options property

2.6.2.7 Style

Applies to
TCustomQueryBuilder component

Declaration
```
property Style: TQBStyle;
```

Description

The *Style* property defines the appearance of the 'Criterions' area buttons and 'Buider' area objects.

See also:
TQBStyle class

2.6.2.8 TabHeight

Applies to
TCustomQueryBuilder component

Declaration
```
property TabHeight: Integer;
```

Description

The *TabHeight* property defines the height of the condition panels.

See also:
VisibleTabs property

2.6.2.9 UseNamespaces

Applies to
TPgSQLQueryBuilder component

Declaration
```
property UseNamespaces: boolean;
```

Description

If the *UseNamespaces* property is true, namespaces are used in building and parsing SQL statements. Use this for working with PostgreSQL v7.3 and higher.

2.6.2.10 VisibleTabs

Applies to
TCustomQueryBuilder component

Declaration

```
type
  TQBVisibleTab = (qbtCriterions, qbtSelection, qbtGroupCriterions, qbtSorting, qbtDat
  TQBVisibleTabs = set of TQBVisibleTab;

property VisibleTabs: TQBVisibleTabs;
```

Description

The *VisibleTabs* property defines which of the Advanced QueryBuilder tabs ('Criterions', 'Selection', Grouping Criterions', 'Sorting', 'Data') are visible.

See also:
TabHeight property

2.6.3 Methods

Key methods

- DoAddRemoveLink
- DoAddRemoveTable
- BeginReload
- Clear
- EndReload

2.6.3.1 DoAddRemoveLink

Applies to
TCustomQueryBuilder component

Declaration

```
type
  TQBAction = (qbaAdd, qbaRemove);

function DoAddRemoveLink(Link: TQBLink; Action: TQBAction): Boolean;
```

Description

Use the *DoAddRemoveLink* method to add or remove link to the work area. The Link parameter is the TQBLink object, which defines the properties of the link to add or remove. If Action is qbaAdd, then the link, specified by the Link parameter, is being added to the work area, otherwise it's being removed.

See also:
DoAddRemoveTable method

2.6.3.2 DoAddRemoveTable

Applies to
TCustomQueryBuilder component

Declaration

```
type
  TQBAction = (qbaAdd, qbaRemove);

function DoAddRemoveTable(Table: TQBTable; Action: TQBAction): Boolean;
```

Description

Use the *DoAddRemoveTable* method to add or remove table to the work area. The Table parameter is the TQBTtable object, which defines the properties of the table to add or remove. If Action is qbaAdd, then the table, specified by the Table parameter, is being added to the work area, otherwise it's being removed.

See also:
DoAddRemoveLink method

2.6.3.3 BeginReload

Applies to
TCustomQueryBuilder component

Declaration
```
procedure BeginReload; virtual;
```

Description

The *BeginReload* method prepares the 'Criterions' and 'Grouping Criterions' areas for making any changes. You must call this method each time you want to change the Operators property and call EndReload when all the changes are done.

See also:
Operators property
EndReload method

2.6.3.4 Clear

Applies to
TCustomQueryBuilder component

Declaration
```
procedure Clear;
```

Description

The *Clear* method clears the work area and all the condition panels.

See also:
DoAddRemoveLink method
DoAddRemoveTable method

2.6.3.5 EndReload

Applies to
TCustomQueryBuilder component

Declaration
```
procedure EndReload; virtual;
```

Description

The *EndReload* method should be called when the changes in the 'Criterions' panel, started by the BeginReload method are done.

See also:
Operators property
BeginReload method

2.6.4 Events

Key events

OnAddRemoveLink
OnAddRemoveTable
OnEnterProcParameter
OnGetTableFields
OnParserError

2.6.4.1 OnAddRemoveLink

Applies to
TCustomQueryBuilder component

Declaration

```
type
  TQBAction = (qbaAdd, qbaRemove);
  TAddRemoveLinkEvent = procedure(Sender: TObject; Link: TQBLink; Action: TQBAction; v

property OnAddRemoveLink: TAddRemoveLinkEvent;
```

Description

The *OnAddRemoveLink* event takes place when a link is added/removed to/from the component work area. The Link parameter defines the properties of the link to add/remove. Action defines if the link is added or removed. Output parameter Accept allows you to forbid or permit action.

See also:
OnAddRemoveTable event

2.6.4.2 OnAddRemoveTable

Applies to
TCustomQueryBuilder component

Declaration

```
type
  TQBAction = (qbaAdd, qbaRemove);
  TAddRemoveTableEvent = procedure(Sender: TObject; Table: TQBTable; Action: TQBAction

property OnAddRemoveTable: TAddRemoveTableEvent;
```

Description

The *OnAddRemoveTable* event takes place when a table is added/removed to/from the component work area. The Table parameter defines the properties of the table to add/remove. Action defines if the table is added or removed. Output parameter Accept allows you to forbid or permit action.

See also:
OnAddRemoveLink event

2.6.4.3 OnEnterProcParameter

Applies to
TCustomQueryBuilder component

Declaration

```
type
  TEnterProcParameter = procedure(Sender: TObject; SProcedure: TQBTable; ListItem: TQB

property OnEnterProcParameter: TEnterProcParameter;
```

Description

The *OnEnterProcParameter* event takes place before the procedure input parameter is added.

See also:
OnGetTableFields event

2.6.4.4 OnGetTableFields

Applies to
TCustomQueryBuilder component

Declaration

```
type
  TGetTableFieldsEvent = procedure(const NameOfTable: string; var ADataSet: TDataSet;

property OnGetTableFields: TGetTableFieldsEvent;
```

Description

The *OnGetTableFields* event takes place, when you set the SQL property in run-time. Constant parameter NameOfTable is the table name, used in the SELECT ... FROM statement. Using parameter ADataSet you can define the dataset, containing data to select from, and using AParams you can define the dataset parameters.

See also:
OnEnterProcParameter

2.6.4.5 OnParserError

Applies to
TCustomQueryBuilder component

Declaration
```
property OnParserError: TQBParserErrorEvent;
```

Description

The *OnParserError* event takes place when parsing the SQL property causes an error in the TQBParser object. When error occurs, you receive the following information: error code, line number, line position and token.

See also:
Parser property
SQL property

2.7 TMSSQLQueryBuilder

2.7.1 TMSSQLQueryBuilder Reference

Unit
QBMSWindow

Description

The *TMSSQLQueryBuilder* component is used for creating queries from the Microsoft SQL tables.

2.7.2 Properties

Run-time only Key properties

- Aggregates
- AlterQuotes
- Functions
- Keywords
- Operators
- Options
- Palette
- Style
- TabHeight
- VisibleTabs

2.7.2.1 Aggregates

Applies to
TCustomQueryBuilder component

Declaration
```
property Aggregates: TStrings;
```

Description

The *Aggregates* property contains the list of all the Aggregate functions, available in the 'Grouping criterions' area for use in the query.

See also:
Functions property
Keywords property
Operators property
Predicates property
Quantifiers property

2.7.2.2 AlterQuotes

Applies to
TMSSQLQueryBuilder component

Declaration
```
property AlterQuotes: boolean;
```

Description

If the *AlterQuotes* property is True, then the "" characters are used for quoting identifiers instead of [] characters.

2.7.2.3 Functions

Applies to
TCustomQueryBuilder component

Declaration
```
property Functions: TStrings;
```

Description

The *Functions* property contains the list of the SQL functions, available for use in the query.

See also:
Aggregates property
Keywords property
Operators property
Predicates property
Quantifiers property

2.7.2.4 Keywords

Applies to
TCustomQueryBuilder component

Declaration
```
property Keywords: TStrings;
```

Description

The *Keywords* property contains the list of all the SQL keywords, available for use in the query.

See also:
Aggregates property
Functions property
Operators property
Predicates property
Quantifiers property

2.7.2.5 Operators

Applies to
TCustomQueryBuilder component

Declaration
```
property Operators: TQBOperators;
```

Description

The *Operators* property contains all the operators, available for use in the query.

See also:
Aggregates property
Functions property
Keywords property
Predicates property
Quantifiers property

2.7.2.6 Options

Applies to
TCustomQueryBuilder component

Declaration

```
type
  TQBOptions = set of(qboRowSelect, qboDragFieldName, qboHideSelection, qboShowFieldTy

property Options: TQBOptions;
```

Description

The *Options* property is a set of suboptions which define the following options of the component:

qboRowSelect	selects the whole row in the 'Criteria' area
qboDragFieldName	shows the field name on dragging the field
qboHideSelection	hides the selected items if the object is inactive
qboShowFieldTypes	shows the field types by hint
qboClearTabsOnTypeChange	indicates to clear 'Criterion' tabs when changing type of the query (SELECT, INSERT, etc.)

See also:
Palette property

2.7.2.7 Palette

Applies to
TCustomQueryBuilder component

Declaration
```
property Palette: TQBPalette;
```

Description

The *Pallete* property defines various colors, used by the component.

See also:
Options property

2.7.2.8 Style

Applies to
TCustomQueryBuilder component

Declaration
```
property Style: TQBStyle;
```

Description

The *Style* property defines the appearance of the 'Criterions' area buttons and 'Buider' area objects.

See also:
TQBStyle class

2.7.2.9 TabHeight

Applies to
TCustomQueryBuilder component

Declaration
```
property TabHeight: Integer;
```

Description

The *TabHeight* property defines the height of the condition panels.

See also:
VisibleTabs property

2.7.2.10 VisibleTabs

Applies to
TCustomQueryBuilder component

Declaration

```
type
  TQBVisibleTab = (qbtCriterions, qbtSelection, qbtGroupCriterions, qbtSorting, qbtDat
  TQBVisibleTabs = set of TQBVisibleTab;

property VisibleTabs: TQBVisibleTabs;
```

Description

The *VisibleTabs* property defines which of the Advanced QueryBuilder tabs ('Criterions', 'Selection', Grouping Criterions', 'Sorting', 'Data') are visible.

See also:
TabHeight property

2.7.3 Methods

Key methods

- DoAddRemoveLink
- DoAddRemoveTable
- BeginReload
- Clear
- EndReload

2.7.3.1 DoAddRemoveLink

Applies to
TCustomQueryBuilder component

Declaration

```
type
  TQBAction = (qbaAdd, qbaRemove);

function DoAddRemoveLink(Link: TQBLink; Action: TQBAction): Boolean;
```

Description

Use the *DoAddRemoveLink* method to add or remove link to the work area. The Link parameter is the TQBLink object, which defines the properties of the link to add or remove. If Action is qbaAdd, then the link, specified by the Link parameter, is being added to the work area, otherwise it's being removed.

See also:
DoAddRemoveTable method

2.7.3.2 DoAddRemoveTable

Applies to
TCustomQueryBuilder component

Declaration

```
type
  TQBAction = (qbaAdd, qbaRemove);

function DoAddRemoveTable(Table: TQBTable; Action: TQBAction): Boolean;
```

Description

Use the *DoAddRemoveTable* method to add or remove table to the work area. The Table parameter is the TQBTtable object, which defines the properties of the table to add or remove. If Action is qbaAdd, then the table, specified by the Table parameter, is being added to the work area, otherwise it's being removed.

See also:
DoAddRemoveLink method

2.7.3.3 BeginReload

Applies to
TCustomQueryBuilder component

Declaration
```
procedure BeginReload; virtual;
```

Description

The *BeginReload* method prepares the 'Criterions' and 'Grouping Criterions' areas for making any changes. You must call this method each time you want to change the Operators property and call EndReload when all the changes are done.

See also:
Operators property
EndReload method

2.7.3.4 Clear

Applies to
TCustomQueryBuilder component

Declaration
```
procedure Clear;
```

Description

The *Clear* method clears the work area and all the condition panels.

See also:
DoAddRemoveLink method
DoAddRemoveTable method

2.7.3.5 EndReload

Applies to
TCustomQueryBuilder component

Declaration
```
procedure EndReload; virtual;
```

Description

The *EndReload* method should be called when the changes in the 'Criterions' panel, started by the BeginReload method are done.

See also:
Operators property
BeginReload method

2.7.4 Events

Key events

OnAddRemoveLink
OnAddRemoveTable
OnEnterProcParameter
OnGetTableFields
OnParserError

2.7.4.1 OnAddRemoveLink

Applies to
TCustomQueryBuilder component

Declaration

```
type
  TQBAction = (qbaAdd, qbaRemove);
  TAddRemoveLinkEvent = procedure(Sender: TObject; Link: TQBLink; Action: TQBAction; v

property OnAddRemoveLink: TAddRemoveLinkEvent;
```

Description

The *OnAddRemoveLink* event takes place when a link is added/removed to/from the component work area. The Link parameter defines the properties of the link to add/remove. Action defines if the link is added or removed. Output parameter Accept allows you to forbid or permit action.

See also:
OnAddRemoveTable event

2.7.4.2 OnAddRemoveTable

Applies to
TCustomQueryBuilder component

Declaration

```
type
  TQBAction = (qbaAdd, qbaRemove);
  TAddRemoveTableEvent = procedure(Sender: TObject; Table: TQBTable; Action: TQBActio

property OnAddRemoveTable: TAddRemoveTableEvent;
```

Description

The *OnAddRemoveTable* event takes place when a table is added/removed to/from the component work area. The Table parameter defines the properties of the table to add/remove. Action defines if the table is added or removed. Output parameter Accept allows you to forbid or permit action.

See also:
OnAddRemoveLink event

2.7.4.3 OnEnterProcParameter

Applies to
TCustomQueryBuilder component

Declaration

```
type
  TEnterProcParameter = procedure(Sender: TObject; SProcedure: TQBTable; ListItem: TQ

property OnEnterProcParameter: TEnterProcParameter;
```

Description

The *OnEnterProcParameter* event takes place before the procedure input parameter is added.

See also:
OnGetTableFields event

2.7.4.4 OnGetTableFields

Applies to
TCustomQueryBuilder component

Declaration

```
type
  TGetTableFieldsEvent = procedure(const NameOfTable: string; var ADataSet: TDataSet;

property OnGetTableFields: TGetTableFieldsEvent;
```

Description

The *OnGetTableFields* event takes place, when you set the SQL property in run-time. Constant parameter NameOfTable is the table name, used in the SELECT ... FROM statement. Using parameter ADataSet you can define the dataset, containing data to select from, and using AParams you can define the dataset parameters.

See also:
OnEnterProcParameter

2.7.4.5 OnParserError

Applies to
TCustomQueryBuilder component

Declaration
```
property OnParserError: TQBParserErrorEvent;
```

Description

The *OnParserError* event takes place when parsing the SQL property causes an error in the TQBParser object. When error occurs, you receive the following information: error code, line number, line position and token.

See also:
Parser property
SQL property

2.8 TDb2QueryBuilder

2.8.1 TDb2QueryBuilder Reference

Unit
QBDb2Window

Description

The *TDb2QueryBuilder* component is used for creating queries from the IBM DB2 tables.

2.8.2 Properties

Run-time only Key properties

- Aggregates
- Functions
- Keywords
- Operators
- Options
- Palette
- Style
- TabHeight
- UseNamespaces
- VisibleTabs

2.8.2.1 Aggregates

Applies to
TCustomQueryBuilder component

Declaration
```
property Aggregates: TStrings;
```

Description

The *Aggregates* property contains the list of all the Aggregate functions, available in the 'Grouping criterions' area for use in the query.

See also:
Functions property
Keywords property
Operators property
Predicates property
Quantifiers property

2.8.2.2 Functions

Applies to
TCustomQueryBuilder component

Declaration
```
property Functions: TStrings;
```

Description

The *Functions* property contains the list of the SQL functions, available for use in the query.

See also:
Aggregates property
Keywords property
Operators property
Predicates property
Quantifiers property

2.8.2.3 Keywords

Applies to
TCustomQueryBuilder component

Declaration
```
property Keywords: TStrings;
```

Description

The *Keywords* property contains the list of all the SQL keywords, available for use in the query.

See also:
Aggregates property
Functions property
Operators property
Predicates property
Quantifiers property

2.8.2.4 Operators

Applies to
TCustomQueryBuilder component

Declaration
```
property Operators: TQBOperators;
```

Description

The *Operators* property contains all the operators, available for use in the query.

See also:
Aggregates property
Functions property
Keywords property
Predicates property
Quantifiers property

2.8.2.5 Options

Applies to
TCustomQueryBuilder component

Declaration

```
type
  TQBOptions = set of(qboRowSelect, qboDragFieldName, qboHideSelection, qboShowFieldTy

property Options: TQBOptions;
```

Description

The *Options* property is a set of suboptions which define the following options of the component:

qboRowSelect	selects the whole row in the 'Criteria' area
qboDragFieldName	shows the field name on dragging the field
qboHideSelection	hides the selected items if the object is inactive
qboShowFieldTypes	shows the field types by hint
qboClearTabsOnTypeChange	indicates to clear 'Criterion' tabs when changing type of the query (SELECT, INSERT, etc.)

See also:
Palette property

2.8.2.6 Palette

Applies to
TCustomQueryBuilder component

Declaration
```
property Palette: TQBPalette;
```

Description

The *Pallete* property defines various colors, used by the component.

See also:
Options property

2.8.2.7 Style

Applies to
TCustomQueryBuilder component

Declaration
```
property Style: TQBStyle;
```

Description

The *Style* property defines the appearance of the 'Criterions' area buttons and 'Buider' area objects.

See also:
TQBStyle class

2.8.2.8 TabHeight

Applies to
TCustomQueryBuilder component

Declaration
```
property TabHeight: Integer;
```

Description

The *TabHeight* property defines the height of the condition panels.

See also:
VisibleTabs property

2.8.2.9 UseNamespaces

Applies to
TDb2QueryBuilder component

Declaration
```
property UseNamespaces: boolean;
```

Description

If the *UseNamespaces* property is true, namespaces are used in building and parsing SQL statements.

2.8.2.10 VisibleTabs

Applies to
TCustomQueryBuilder component

Declaration

```
type
  TQBVisibleTab = (qbtCriterions, qbtSelection, qbtGroupCriterions, qbtSorting, qbtDat
  TQBVisibleTabs = set of TQBVisibleTab;

property VisibleTabs: TQBVisibleTabs;
```

Description

The *VisibleTabs* property defines which of the Advanced QueryBuilder tabs ('Criterions', 'Selection', Grouping Criterions', 'Sorting', 'Data') are visible.

See also:
TabHeight property

2.8.3 Methods

Key methods

- DoAddRemoveLink
- DoAddRemoveTable
- BeginReload
- Clear
- EndReload

2.8.3.1 DoAddRemoveLink

Applies to
TCustomQueryBuilder component

Declaration

```
type
  TQBAction = (qbaAdd, qbaRemove);

function DoAddRemoveLink(Link: TQBLink; Action: TQBAction): Boolean;
```

Description

Use the *DoAddRemoveLink* method to add or remove link to the work area. The Link parameter is the TQBLink object, which defines the properties of the link to add or remove. If Action is qbaAdd, then the link, specified by the Link parameter, is being added to the work area, otherwise it's being removed.

See also:
DoAddRemoveTable method

2.8.3.2 DoAddRemoveTable

Applies to
TCustomQueryBuilder component

Declaration

```
type
  TQBAction = (qbaAdd, qbaRemove);

function DoAddRemoveTable(Table: TQBTable; Action: TQBAction): Boolean;
```

Description

Use the *DoAddRemoveTable* method to add or remove table to the work area. The Table parameter is the TQBTtable object, which defines the properties of the table to add or remove. If Action is qbaAdd, then the table, specified by the Table parameter, is being added to the work area, otherwise it's being removed.

See also:
DoAddRemoveLink method

2.8.3.3 BeginReload

Applies to
TCustomQueryBuilder component

Declaration
```
procedure BeginReload; virtual;
```

Description

The *BeginReload* method prepares the 'Criterions' and 'Grouping Criterions' areas for making any changes. You must call this method each time you want to change the Operators property and call EndReload when all the changes are done.

See also:
Operators property
EndReload method

2.8.3.4 Clear

Applies to
TCustomQueryBuilder component

Declaration
```
procedure Clear;
```

Description

The *Clear* method clears the work area and all the condition panels.

See also:
DoAddRemoveLink method
DoAddRemoveTable method

2.8.3.5 EndReload

Applies to
TCustomQueryBuilder component

Declaration
```
procedure EndReload; virtual;
```

Description

The *EndReload* method should be called when the changes in the 'Criterions' panel, started by the BeginReload method are done.

See also:
Operators property
BeginReload method

2.8.4 Events

Key events

OnAddRemoveLink
OnAddRemoveTable
OnEnterProcParameter
OnGetTableFields
OnParserError

2.8.4.1 OnAddRemoveLink

Applies to
TCustomQueryBuilder component

Declaration

```
type
  TQBAction = (qbaAdd, qbaRemove);
  TAddRemoveLinkEvent = procedure(Sender: TObject; Link: TQBLink; Action: TQBAction; v

property OnAddRemoveLink: TAddRemoveLinkEvent;
```

Description

The *OnAddRemoveLink* event takes place when a link is added/removed to/from the component work area. The Link parameter defines the properties of the link to add/remove. Action defines if the link is added or removed. Output parameter Accept allows you to forbid or permit action.

See also:
OnAddRemoveTable event

2.8.4.2 OnAddRemoveTable

Applies to
TCustomQueryBuilder component

Declaration

```
type
  TQBAction = (qbaAdd, qbaRemove);
  TAddRemoveTableEvent = procedure(Sender: TObject; Table: TQBTable; Action: TQBActio

property OnAddRemoveTable: TAddRemoveTableEvent;
```

Description

The *OnAddRemoveTable* event takes place when a table is added/removed to/from the component work area. The Table parameter defines the properties of the table to add/remove. Action defines if the table is added or removed. Output parameter Accept allows you to forbid or permit action.

See also:
OnAddRemoveLink event

2.8.4.3 OnEnterProcParameter

Applies to
TCustomQueryBuilder component

Declaration

```
type
  TEnterProcParameter = procedure(Sender: TObject; SProcedure: TQBTable; ListItem: TQ

property OnEnterProcParameter: TEnterProcParameter;
```

Description

The *OnEnterProcParameter* event takes place before the procedure input parameter is added.

See also:
OnGetTableFields event

2.8.4.4 OnGetTableFields

Applies to
TCustomQueryBuilder component

Declaration

```
type
  TGetTableFieldsEvent = procedure(const NameOfTable: string; var ADataSet: TDataSet;

property OnGetTableFields: TGetTableFieldsEvent;
```

Description

The *OnGetTableFields* event takes place, when you set the SQL property in run-time. Constant parameter NameOfTable is the table name, used in the SELECT ... FROM statement. Using parameter ADataSet you can define the dataset, containing data to select from, and using AParams you can define the dataset parameters.

See also:
OnEnterProcParameter

2.8.4.5 OnParserError

Applies to
TCustomQueryBuilder component

Declaration
```
property OnParserError: TQBParserErrorEvent;
```

Description

The *OnParserError* event takes place when parsing the SQL property causes an error in the TQBParser object. When error occurs, you receive the following information: error code, line number, line position and token.

See also:
Parser property
SQL property

2.9 TDbiQueryBuilder

2.9.1 TDbiQueryBuilder Reference

Unit
QBDbiWindow

Description

The *TDbiQueryBuilder* component is used for creating queries from the DBISAM tables.

2.9.2 Properties

Run-time only Key properties

Aggregates
Functions
Keywords
Operators
Options
Palette
Style
TabHeight
VisibleTabs

2.9.2.1 Aggregates

Applies to
TCustomQueryBuilder component

Declaration
```
property Aggregates: TStrings;
```

Description

The *Aggregates* property contains the list of all the Aggregate functions, available in the 'Grouping criterions' area for use in the query.

See also:
Functions property
Keywords property
Operators property
Predicates property
Quantifiers property

2.9.2.2 Functions

Applies to
TCustomQueryBuilder component

Declaration
```
property Functions: TStrings;
```

Description

The *Functions* property contains the list of the SQL functions, available for use in the query.

See also:
Aggregates property
Keywords property
Operators property
Predicates property
Quantifiers property

2.9.2.3 Keywords

Applies to
TCustomQueryBuilder component

Declaration
```
property Keywords: TStrings;
```

Description

The *Keywords* property contains the list of all the SQL keywords, available for use in the query.

See also:
Aggregates property
Functions property
Operators property
Predicates property
Quantifiers property

2.9.2.4 Operators

Applies to
TCustomQueryBuilder component

Declaration
```
property Operators: TQBOperators;
```

Description

The *Operators* property contains all the operators, available for use in the query.

See also:
Aggregates property
Functions property
Keywords property
Predicates property
Quantifiers property

2.9.2.5 Options

Applies to
TCustomQueryBuilder component

Declaration

```
type
  TQBOptions = set of(qboRowSelect, qboDragFieldName, qboHideSelection, qboShowFieldTy

property Options: TQBOptions;
```

Description

The *Options* property is a set of suboptions which define the following options of the component:

qboRowSelect	selects the whole row in the 'Criteria' area
qboDragFieldName	shows the field name on dragging the field
qboHideSelection	hides the selected items if the object is inactive
qboShowFieldTypes	shows the field types by hint
qboClearTabsOnTypeChange	indicates to clear 'Criterion' tabs when changing type of the query (SELECT, INSERT, etc.)

See also:
Palette property

2.9.2.6 Palette

Applies to
TCustomQueryBuilder component

Declaration
```
property Palette: TQBPalette;
```

Description

The *Pallete* property defines various colors, used by the component.

See also:
Options property

2.9.2.7 Style

Applies to
TCustomQueryBuilder component

Declaration
```
property Style: TQBStyle;
```

Description

The *Style* property defines the appearance of the 'Criterions' area buttons and 'Buider' area objects.

See also:
TQBStyle class

2.9.2.8 TabHeight

Applies to
TCustomQueryBuilder component

Declaration
```
property TabHeight: Integer;
```

Description

The *TabHeight* property defines the height of the condition panels.

See also:
VisibleTabs property

2.9.2.9 VisibleTabs

Applies to
TCustomQueryBuilder component

Declaration

```
type
  TQBVisibleTab = (qbtCriterions, qbtSelection, qbtGroupCriterions, qbtSorting, qbtDat
  TQBVisibleTabs = set of TQBVisibleTab;

property VisibleTabs: TQBVisibleTabs;
```

Description

The *VisibleTabs* property defines which of the Advanced QueryBuilder tabs ('Criterions', 'Selection', Grouping Criterions', 'Sorting', 'Data') are visible.

See also:
TabHeight property

2.9.3 Methods

Key methods

- DoAddRemoveLink
- DoAddRemoveTable
- BeginReload
- Clear
- EndReload

2.9.3.1 DoAddRemoveLink

Applies to
TCustomQueryBuilder component

Declaration

```
type
  TQBAction = (qbaAdd, qbaRemove);

function DoAddRemoveLink(Link: TQBLink; Action: TQBAction): Boolean;
```

Description

Use the *DoAddRemoveLink* method to add or remove link to the work area. The Link parameter is the TQBLink object, which defines the properties of the link to add or remove. If Action is qbaAdd, then the link, specified by the Link parameter, is being added to the work area, otherwise it's being removed.

See also:
DoAddRemoveTable method

2.9.3.2 DoAddRemoveTable

Applies to
TCustomQueryBuilder component

Declaration

```
type
  TQBAction = (qbaAdd, qbaRemove);

function DoAddRemoveTable(Table: TQBTable; Action: TQBAction): Boolean;
```

Description

Use the *DoAddRemoveTable* method to add or remove table to the work area. The Table parameter is the TQBTtable object, which defines the properties of the table to add or remove. If Action is qbaAdd, then the table, specified by the Table parameter, is being added to the work area, otherwise it's being removed.

See also:
DoAddRemoveLink method

2.9.3.3 BeginReload

Applies to
TCustomQueryBuilder component

Declaration
```
procedure BeginReload; virtual;
```

Description

The *BeginReload* method prepares the 'Criterions' and 'Grouping Criterions' areas for making any changes. You must call this method each time you want to change the Operators property and call EndReload when all the changes are done.

See also:
Operators property
EndReload method

2.9.3.4 Clear

Applies to
TCustomQueryBuilder component

Declaration
```
procedure Clear;
```

Description

The *Clear* method clears the work area and all the condition panels.

See also:
DoAddRemoveLink method
DoAddRemoveTable method

2.9.3.5 EndReload

Applies to
TCustomQueryBuilder component

Declaration
```
procedure EndReload; virtual;
```

Description

The *EndReload* method should be called when the changes in the 'Criterions' panel, started by the BeginReload method are done.

See also:
Operators property
BeginReload method

2.9.4 Events

Key events

OnAddRemoveLink
OnAddRemoveTable
OnEnterProcParameter
OnGetTableFields
OnParserError

2.9.4.1 OnAddRemoveLink

Applies to
TCustomQueryBuilder component

Declaration

```
type
  TQBAction = (qbaAdd, qbaRemove);
  TAddRemoveLinkEvent = procedure(Sender: TObject; Link: TQBLink; Action: TQBAction; v

property OnAddRemoveLink: TAddRemoveLinkEvent;
```

Description

The *OnAddRemoveLink* event takes place when a link is added/removed to/from the component work area. The Link parameter defines the properties of the link to add/remove. Action defines if the link is added or removed. Output parameter Accept allows you to forbid or permit action.

See also:
OnAddRemoveTable event

2.9.4.2 OnAddRemoveTable

Applies to
TCustomQueryBuilder component

Declaration

```
type
  TQBAction = (qbaAdd, qbaRemove);
  TAddRemoveTableEvent = procedure(Sender: TObject; Table: TQBTable; Action: TQBActio

property OnAddRemoveTable: TAddRemoveTableEvent;
```

Description

The *OnAddRemoveTable* event takes place when a table is added/removed to/from the component work area. The Table parameter defines the properties of the table to add/remove. Action defines if the table is added or removed. Output parameter Accept allows you to forbid or permit action.

See also:
OnAddRemoveLink event

2.9.4.3 OnEnterProcParameter

Applies to
TCustomQueryBuilder component

Declaration

```
type
  TEnterProcParameter = procedure(Sender: TObject; SProcedure: TQBTable; ListItem: TQ

property OnEnterProcParameter: TEnterProcParameter;
```

Description

The *OnEnterProcParameter* event takes place before the procedure input parameter is added.

See also:
OnGetTableFields event

2.9.4.4 OnGetTableFields

Applies to
TCustomQueryBuilder component

Declaration

```
type
  TGetTableFieldsEvent = procedure(const NameOfTable: string; var ADataSet: TDataSet;

property OnGetTableFields: TGetTableFieldsEvent;
```

Description

The *OnGetTableFields* event takes place, when you set the SQL property in run-time. Constant parameter NameOfTable is the table name, used in the SELECT ... FROM statement. Using parameter ADataSet you can define the dataset, containing data to select from, and using AParams you can define the dataset parameters.

See also:
OnEnterProcParameter

2.9.4.5 OnParserError

Applies to
TCustomQueryBuilder component

Declaration
```
property OnParserError: TQBParserErrorEvent;
```

Description

The *OnParserError* event takes place when parsing the SQL property causes an error in the TQBParser object. When error occurs, you receive the following information: error code, line number, line position and token.

See also:
Parser property
SQL property

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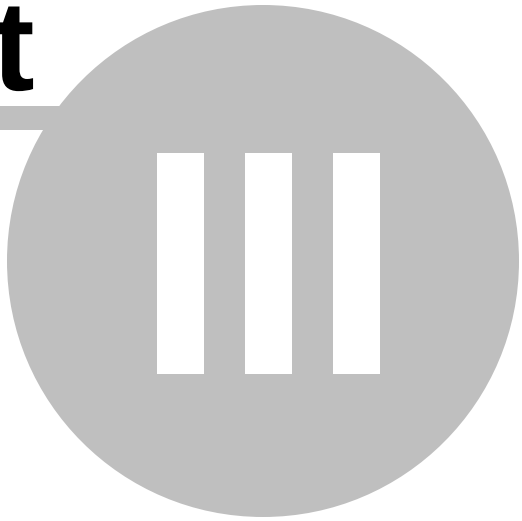

3 Units

3.1 QBWindow unit

Components
TCustomQueryBuilder
TSQLQueryBuilder
TFullQueryBuilder
TQueryBuilders
TQueryBuilder

Objects
TQBPalette
TQBStyle
TQBObjectStyle

3.1.1 TQBPalette class

Unit
QBWindow

Description

The TQBPalette class contains properties defining various colors used by the descendant of the TCustomQueryBuilder component.

3.1.1.1 Properties

Run-time only Key properties

- ActiveCondition
- ProcClient
- TableClient
- Field
- Group
- Operation
- Predicate
- SubQuery

3.1.1.1.1 ActiveCondition

Applies to
TQBPalette class

Declaration
```
property ActiveCondition: TColor;
```

Description

The ActiveCondition property defines the color of the active condition in the 'Criterions' area.

See also:
ProcClient property
TableClient property
Field property
Group property
Operation property
Predicate property
SubQuery property

3.1.1.1.2 ProcClient

Applies to
TQBPalette class

Declaration
```
property ProcClient: TColor;
```

Description

The ProcClient property defines the procedure color the 'Builder' area.

See also:
ActiveCondition property
TableClient property
Field property
Group property
Operation property
Predicate property
SubQuery property

3.1.1.1.3 TableClient

Applies to
TQBPalette class

Declaration
```
property TableClient: TColor;
```

Description

The ProcClient property defines the table color the 'Builder' area.

See also:
ActiveCondition property
ProcClient property
Field property
Group property
Operation property
Predicate property
SubQuery property

3.1.1.1.4 Field

Applies to
TQBPalette class

Declaration
```
property Field: TColor;
```

Description

The Field property defines the color of the fields in the 'Criterions' area.

See also:
ActiveCondition property
ProcClient property
TableClient property
Group property
Operation property
Predicate property
SubQuery property

3.1.1.1.5 Group

Applies to
TQBPalette class

Declaration
```
property Group: TColor;
```

Description

The Group property defines the color of the groups in the 'Criterions' area.

See also:
ActiveCondition property
ProcClient property
TableClient property
Field property
Operation property
Predicate property
SubQuery property

3.1.1.1.6 Operation

Applies to
TQBPalette class

Declaration
```
property Operation: TColor;
```

Description

The Operation property defines the color of the operations in the 'Criterions' area.

See also:
ActiveCondition property
ProcClient property
TableClient property
Field property
Group property
Predicate property
SubQuery property

3.1.1.1.7 Predicate

Applies to
TQBPalette class

Declaration
```
property Predicate: TColor;
```

Description

The Predicate property defines the color of the predicates and qualifiers in the 'Criterions' area.

See also:
ActiveCondition property
ProcClient property
TableClient property
Field property
Group property
Operation property
SubQuery property

3.1.1.1.8 SubQuery

Applies to
TQBPalette class

Declaration
```
property SubQuery: TColor;
```

Description

The SubQuery property defines the color of the subqueries in the 'Criterions' area.

See also:
ActiveCondition property
ProcClient property
TableClient property
Field property
Group property
Operation property
Predicate property

3.1.2 TQBStyle class

Unit
QBWindow

Description

The TQBStyle class contains properties which define the appearance of the 'Criterions' area buttons and 'Buider' area objects.

3.1.2.1 Properties

Run-time only Key properties

- ButtonStyle
- ObjectStyle
- TableStyle
- OldStyleLook

3.1.2.1.1 OldStyleLook

Applies to
TQBStyle class

Declaration

```
property OldLookStyle: Boolean;
```

Description

The OldStyleLook property defines the appearance of Query Builder. It allows to hide some extended visual feuatures of Query Builder (e.g. Subqueries tabs).

See also:
ObjectStyle property
TableStyle property

3.1.2.1.2 ButtonStyle

Applies to
TQBStyle class

Declaration

```
type
  TQBButtonStyle = (qbsUltraFlat, qbs3DLook, qbsFlat);

property ButtonStyle: TQBButtonStyle;
```

Description

The ButtonStyle property defines the appearance of the condition buttons on the 'Criterions' panel.

See also:
ObjectStyle property
TableStyle property

3.1.2.1.3 ObjectStyle

Applies to
TQBStyle class

Declaration
```
property ObjectStyle: TQBObjectStyle;
```

Description

The ObjectStyle property defines the appearance of objects on the 'Builder' area.

See also:
ButtonStyle property
TableStyle property

3.1.2.1.4 TableStyle

Applies to
TQBStyle class

Declaration

```
TQBTableStyle = (qtsStandard,qtsXPStyle);

property TableStyle: TQBTableStyle;
```

Description

The TableStyle property defines the XP style appearance of tables on the 'Builder' area.

See also:
ButtonStyle property
ObjectStyle property

3.1.3 TQBObjectStyle class

Unit
QBWindow

Description

The TQBObjectStyle class defines the appearance of objects on the 'Builder' area of TCustomQueryBuilder descendant.

3.1.3.1 Properties

Run-time only Key properties

- BorderKind
- Flat
- FlatButtons

3.1.3.1.1 BorderKind

Applies to
TQBObjectStyle class

Declaration

```
type
  TQBBorderKind = (qbkBump, qbkEtched, qbkRaised, qbkSunken);

property BorderKind: TQBBorderKind;
```

Description

The BorderKind property defines the appearance of the table and procedure borders in the 'Builder' area.

See also:
Flat property
FlatButtons property

3.1.3.1.2 Flat

Applies to
TQBObjectStyle class

Declaration
```
property Flat: boolean;
```

Description

The Flat property defines if the object on the 'Buidler' area is 'flat', i.e its borders are neither raised nor lowered.

See also:
BorderKind property
FlatButtons property

3.1.3.1.3 FlatButtons

Applies to
TQBObjectStyle class

Declaration
```
property FlatButtons: boolean;
```

Description

The FlatButtons property defines the appearance of the header buttons of the object on the 'Builder' area. If FlatButtons is true, then button's borders aren't raised, until you drag a mouse over it.

See also:
BorderKind property
Flat property

3.1.4 TQueryBuilder

Unit
QBWindow

Description

The TQueryBuilder is an item of TQueryBuilders collection representing a single SELECT SQL statement. TQueryBuilder stores the link to the TCustomQueryBuilder component.

3.1.4.1 Properties

- Run-time only
- Key properties
- Data

3.1.4.1.1 Data

Applies to
TQueryBuilder component

Declaration
```
property Data: TCustomQueryBuilder;
```

Description

The Data property is the link to TCustomQueryBuilder object representing single SELECT SQL statement.

3.1.5 TQueryBuilders

Unit
QBWindow

Description

The TQueryBuilders is a collection of TQueryBuilder components. Each item in this collection represents a single SELECT SQL statement.

3.1.5.1 Properties

- Run-time only
- Key properties
- Items

3.1.5.1.1 Items

Applies to
TQueryBuilders component

Declaration
```
property Items[Index: Integer]: TQueryBuilder;
```

Description

The QueryBuilder property is a collection of TQueryBuilder components. Each item in this collection represents a single SELECT SQL statement.

Use the Items property to access individual items in a collection. The value of the Index parameter corresponds to the Index property of a collection item. It represents its position in the collection. Items are zero-based indexed. If the Index parameter value is negative or exceeds the maximum available index, an exception is raised. The last available item index is always one less than the Count property value.

See also:
Add method
FindByName method

3.1.5.2 Methods

Key methods

- Add
- FindByName

3.1.5.2.1 Add

Applies to
TQueryBuilders component

Declaration
```
function Add: TQueryBuilder;
```

Description
Adds an item to the TQueryBuilder collection.

See also:
Items property
FindByName method

3.1.5.2.2 FindByName

Applies to
TQueryBuilders component

Declaration
```
function FindByName(const Name: string): TQueryBuilder;
```

Description

Call FindByName to retrieve field information for a field given its name. Name is the name of an existing field. FindByName returns the TQueryBuilder component that represents the specified query builder.

See also:
Items property
Add metod

3.2 QBFloatTable unit

Objects
TQBTable

3.2.1 TQBTable class

Unit
QBFloatTable

Description

The TQBTable class contains properties which describe the table object on the 'Builder' area.

3.2.1.1 Properties

Run-time only Key properties

- Alias
- Caption
- Expand
- Height
- ItemHeight
- Left
- TableName
- Top
- Width

3.2.1.1.1 Alias

Applies to
TQBTable object

Declaration
```
property Alias: string;
```

Description

The Alias property is the alias of the table, which TQBTable object corresponds to.

See also:
Caption property
TableName property

3.2.1.1.2 Caption

Applies to
TQBTable object

Declaration
```
property Caption: string;
```

Description

The Caption property defines the table name, displaying on the top of the table object.

See also:
Alias property
TableName property

3.2.1.1.3 Expand

Applies to
TQBTable object

Declaration
```
property Expand: Bool;
```

Description

If Expand property is true, the object is in its usual state, otherwise, only the object header is visible.

See also:
ItemHeight property

3.2.1.1.4 Height

Applies to
TQBTable object

Declaration
```
property Height: Integer;
```

Description

The Hight property defines the object height.

See also:
Width property
ItemHeight property

3.2.1.1.5 ItemHeight

Applies to
TQBTable object

Declaration
```
property ItemHeight: Integer;
```

Description

The ItemHeight property defines the height of the table fields.

See also:
Height property
Expand property

3.2.1.1.6 Left

Applies to
TQBTable object

Declaration
```
property Left: Integer;
```

Description

The Left property is the outermost left coordinate of the object.

See also:
Top property

3.2.1.1.7 TableName

Applies to
TQBTable object

Declaration
```
property TableName: string;
```

Description

The TableName property is the name of the table, which the object corresponds to.

See also:
Alias property
Caption property

3.2.1.1.8 Top

Applies to
TQBTable object

Declaration
```
property Top: Integer;
```

Description

The Top property is the outermost top coordinate of the object.

See also:
Left property

3.2.1.1.9 Width

Applies to
TQBTable object

Declaration
```
property Width: Integer;
```

Description

The Width property defines the object width.

See also:
Height property

3.3 QBIBWindow unit

Components
TInterBaseQueryBuilder

3.4 QBMyWindow unit

Components
TMySQLQueryBuilder

3.5 QBPgWindow unit

Components
TPgSQLQueryBuilder

3.6 QBMSWindow unit

Components
TMSSQLQueryBuilder

3.7 QBDb2Window unit

Components
TDb2QueryBuilder

3.8 QBDbiWindow unit

Components
TDbiQueryBuilder

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