

# What's New TSQLBuilder ver.1.40

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## *New Features:*

- **Query Tables & Fields Wizard** : Step by step expert with a very simple interface for setting up the tables, joins and fields to be used in the query and still be able to run or fine-tune it in TSQLBuilder. The wizard can be started automatically on TSQLBuilder startup (set the UseWizardOnShow property) or called up with it's button from TSQLBuilder.
- **Protected Cells** : Selected fields grid now has protected cells. These cells are automatically protected and unprotected depending on the other query settings. If the query will have a group by clause then the "Where" and "Or where" cells in summary field's columns and the "Having" cells in the non-summary columns are protected. *ie. If at least one column has GroupBy set to true then;For columns where "Group By" is true "Having" is protected and for those where "Group By" is false, "Where" and "Or Where" are protected. And any data already in a protected cell is ignored.*
- **Auto-Joins** : As each table is added to the query the component attempts to find a natural join and then displays the Join Editor. If a natural join is found then the Join Editor's defaults are set to make that join and you only have to click OK.
- **New Join Editor** : This form now has a simple join panel and a custom join panel. The simple join panel is the default and the custom join panel will handle joins on complex expressions.
- **Autogroup Checkbox** : This control relates to the new Autogroup property. If set to true then the query is parsed to see if it contains any summary operators. If so then all columns that are summary columns have "group by" set to false and those that are not have "group by" set to true. You would only ever need to turn this feature off to support non-standard vendor sql extensions.
- **Modifying Queries** : If options contains sbEnableEditor then the user can modify the query text by hand and the run the modified query within TSQLBuilder. For safety reasons only "select" queries are able to be run from within the component, registered users with the source may change this to run any query quite simply.
- **Saving Result Tables** : Result tables may now be saved as tables for results generated with local sql queries. This is most handy for saving intermediate results to a table to be used in a later query.
- **TBtEdit** : A free component for you. In the process of developing this version of TSQLBuilder the TBtEdit component was born. It is basically an edit box with a button, simple but very handy. The button glyph and an OnBtnClick event are both published.
- **Different layout** : Increased number of fields shown per table and used wider list boxes to show longer names.
- **New Properties** : New properties to allow user modifications of the query and autoloading from streams, files and blobs.

## *Other Changes:*

- **Units Reorganized** :The component unit's have been reorganized and the unit sqlbreg.dcu is included to register both the TSQLBuilder and BtnEdit components and install them on the samples page
- **Streams** : Stream routines have been improved and a small bug squashed. The bug involved missing one begin and end marker pair and didn't show up some other changes were made for this version.
- **Criteria by column** : Query criteria is now processed for each row in the column and then each row in the next column and so on. Previously it was processed row by row.
- **Query Preloading** : TSQLBuilder can be preloaded with a query. The query can be loaded from stream, database blob or diskfile and recreated by TSQLBuilder when executed. The Query Wizard can also be invoked automatically on show.
- **SQL Generation** : Improvements to handling of heterogeneous queries and joins.
- **Databases** : Improved handling of database access for multi-database queries.