

DBBalance Ltd. P.O.B. 3702, Ramat-Gan, Israel 52136 Tel/Fax: +972(3)-7617151

Email:

sales@dbbalance.com

Batch Data Synchronization

Use **Batch Data Synchronization** for synchronizing content of groups of tables, views, virtual tables or stored queries.

Key Points:

- Data synchronization of the selected pair of objects is one-way. In order to synchronize in both directions, it is necessary to execute two synchronization procedures.
- Batch Synchronization is used for synchronizing tables, views, virtual tables, and saved queries. Note that only database table or view can serve as the synchronization target object.
- The user is responsible for selecting the pair of objects meant for synchronization.
- Data synchronization cosists of two stages:
 - 1. Comparison for finding the data differences
 - 2. Synchronization itself generating the appropriate synchronization script and its execution.
- At the comparison stage, the program is using same rules and settings that are used for simple datacomparison.
- The execution of the generated synchronization script can be launched immediately following the conclusion of the synchronization procedure, or it can be postponed and launched later.
- The user is able to save the synchronization script into a file for further analysis and future use.

The Batch Data Synchronization Procedure:

1. Select the groups of objects meant for comparison from the left and right panels (**Tables**, **Views**, **Virtual Tables**, **Stored Queries**):

Figure 21: Group selection





- 2. Use **Synchronize** > **Batch Synchronization** menu command
- 3. Select and map the objects intended for synchronization in the **Batch Synchronization** dialog. **NOTE:** The program maps the objects of the selected groups automatically, on the object names basis. However, the user can manually redefine any object pair for further synchronization.



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Figire 22: Map objects ☑ Select/Unselect All Pair Up Pair Down ☐ Save strategy ☐ Load strategy Dynamic formation of pairs Wildcard: Left Table name Right Table name Status ✓ Categories Categories ✓ Customers Customers Employees Employees ✓ Order Details Order Details ✓ Orders Orders Products Categories ✓ Shippers Customers Suppliers Employees Order Details Products Shippers Suppliers

4. Select the direction of the synchronization (**From Left -> To Right** or **To Right <- From Left**) *Figure 23:* Select synchronization direction



- 5. Select the allowable synchronization actions:
 - Insert missing records Insert/do not insert records that are present in the source table and are absent from the target table.
 - o **Update different record** Change/do not change field values in differing records.
 - Delete obsolete records Delete/do not delete records that are present in the target table but are absent from the source table.

Figure 24: Allowable Synchronization Actions.

哮	Insert missing record
	Update different record
	Delete obsolete record

- 6. Select desired error handling option:
 - o **Ignore Errors** Ignore any errors, continue the procedure and save the successfully completed changes in the target table.
 - Up to first Error At the detection of the first error, stop the procedure without saving any changes in the target object.
 - Up to end Continue the procedure regardless of any errors; however, do not save any changes in the target table if even one error occurs.



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Figure 25: Error handling options

_	_
C Up to end	
C Ignore Errors	
Up to first Error	

7. In order to save the generated SQL synchronization script into a file – check the **Save synchronization script to file** option and set the parameters of the saved file.

NOTE: the program supports three formats of the synchronization script file:

- o **BSQ** binary format
- Text ASCII
- Text Unicode

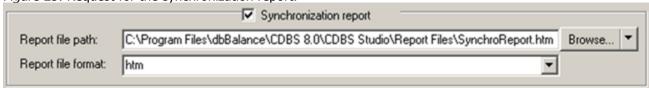
Figure 26: Storing the SQL Synchronization Script.



8. In order to create a report on the synchronization procedure – check the **Synchronization report** box and set the parameters for the report file.

The program supports two report-file formats: **XML** and **HTML**.

Figure 25: Request for the synchronization report.



9. Start the synchronization procedure by clicking the **Run...** button



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found missing total synchronized Tel/Fax:

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The program will execute the procedure and create a report (if the appropriate option was selected). Figure 27:An example of a synchronization report

Action report (synchronization)

created: 10:57:47 December 18, 2010

Action Error Handling Error handling: Up to first Error (commit or rollback)

+ Connection info			
		0.11	
Details	Expand all	Collapse all	
+ Customers -> Cus	tomers (success)		
- Order Details -> Or	rder Details (success)		
source object name	Order Details		
target object name	Order Details		
found new	0		
found different	13		
found missing	0		
total synchronized	13		
- Orders -> Orders (success)		
source object name	Orders		
target object name	Orders		
found new	0		
found different	38		