Database - Feature #6938

XML seriliazation improvement

11/16/2022 10:08 AM - Igor Skornyakov

Status:	New		**Start date:**	11/16/2022
Priority:	Normal		**Due date:**	
Assignee:			**% Done:**	0%
Category:			**Estimated time:**	0.00 hour
Target version:				
billable:	No		**version:**	
vendor_id:	GCD			

Description	

Related issues:	
Related to Database - Feature #6453: temp-table features	**Closed**

History

#1 - 11/16/2022 10:09 AM - Igor Skornyakov

- Related to Feature #6453: temp-table features added

#2 - 11/16/2022 10:16 AM - Igor Skornyakov

At this moment the XMLExport class uses manual formatting of the document based on indent()/leneBreak() calls (if formatting is required). In addition, it uses writeStartElement/writeEndElement calls and code blocks to ensure the correct matching of these calls.
As a result, the code is quite verbose and is difficult to maintain.

Why not extend XMLStreamWriter so that it will care about indentation itself? This will reduce the number of indent()/leneBreak() calls and indent level adjustments dramatically. After all, these actions are required only on writeStartElement/writeEndElement calls.

To ensure that elements are properly nested/closed we can add a single method public void writeElement(String name, ElementBuilder elementBuilder) where ElementBuilder is a functional interface with a single method (public void build()).
After that, we can refactor the code moving the logic between writeStartElement and writeEndElement calls into a lambda expression and passing it to the writeElement.
I believe that it will be much less error-prone than the current approach base just on the code formatting because the compiler will validate the document structure.