Best practice for Lasernet Connector

- 2023-09-19 - Comments (0) - D365 FO Connector General Information

Lasernet for Dynamics 365

The following article shows highlights the best practice for the following D365 Dynamics Finance and Operations features:

- Replacement reports

- Tables/Fields

- Subreports

- Group by/calculations

- Size of the XML file

Replacement reports

Use a replacement report instead of an SSRS report. The replacement report often provides better performance and offers the features of the Query wizard.
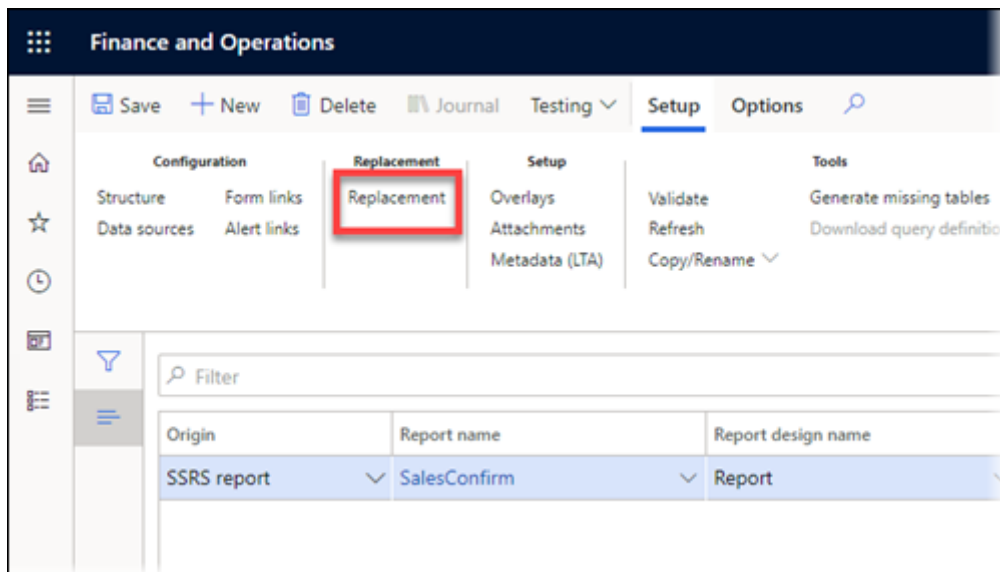
On the Replacement report page, select **Create new** to name the replacement report.

The prefix of the report name should be the same as the SSRS report name. This way, they will be close to each other in the report list and easily identifiable.

A new query report is created (the setup from the SSRS such as Form links and Archive is all copied). On the SSRS report, you can see it is replaced by your replacement report. You can now forward your work with the replacement/query report.
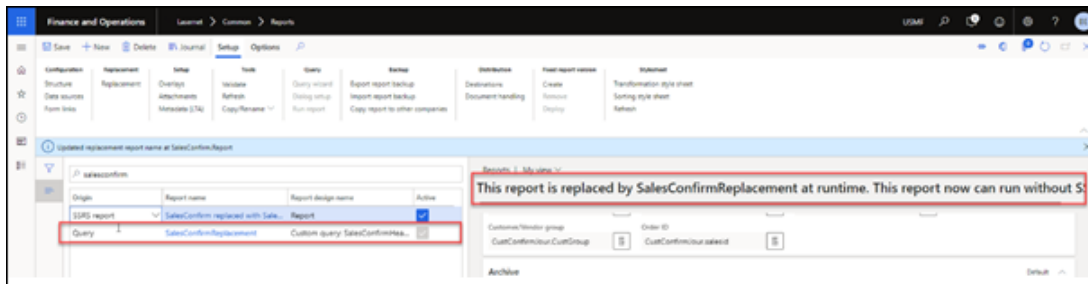

Select **Data sources** and delete all the tables you wish to delete. Use **Query wizard** to add necessary tables.
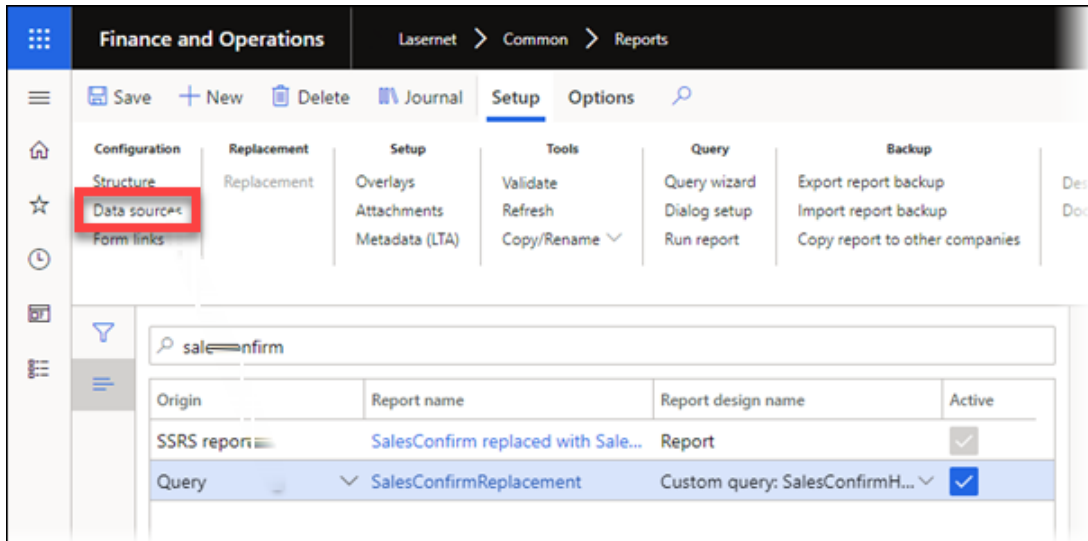
Tables/Fields

Add tables and fields within the **Query wizard** and avoid using **Data sources** to add tables.

Avoid adding fields using the **Structure** option. Your manually created fields are displayed in yellow; delete these and add them again by using the **Query wizard**.
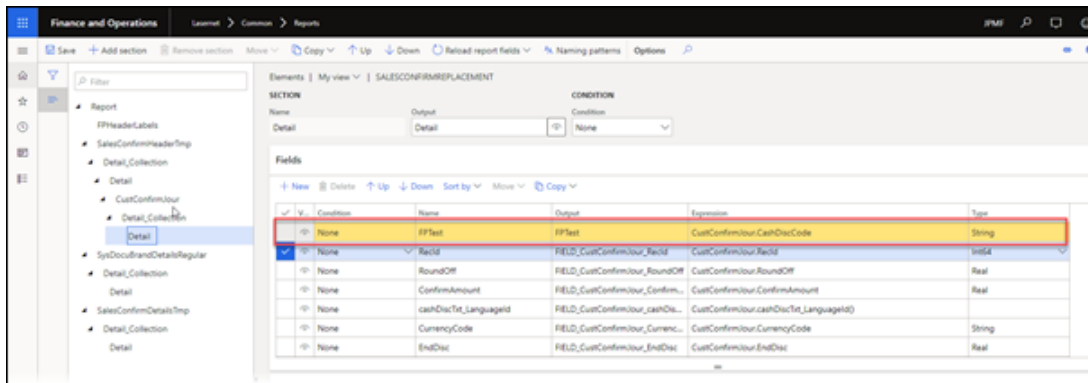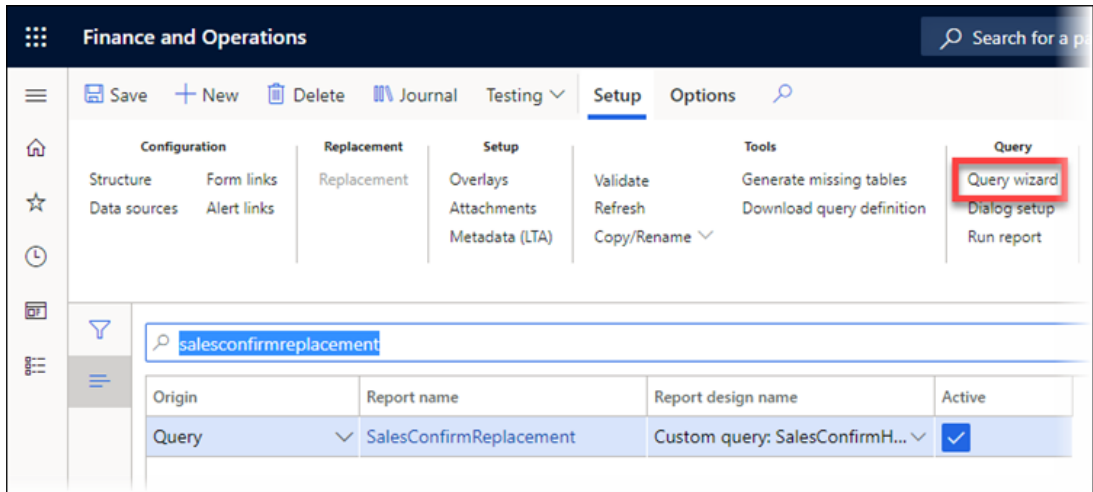

Subreports

Instead of using a subreport, create a new query by using the **Query wizard**.
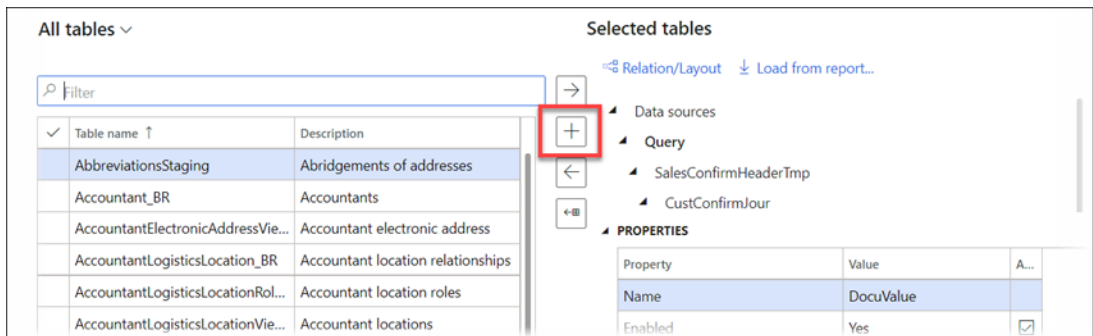
This is only possible from Lasernet Connector FO version 6.1.

Example how to add e.g. Table=CompanyInfo

1. Open the **Query wizard > Next > Next.**

2. Place your cursor on the table where you want to add a new query and click the
+ button.

3. Give the query a name, add *Table=CompanyInfo* and set up/check relations.

4. Add fields as normal and the result will appear:

XSL viewer - SalesConfirm_001185_4637_20210125_123941

Group by/calculations

This is only possible from Lasernet Connector version 6.1.

Take into consideration whether using this feature will help reduce the size of the XML file, and perform the calculations from the Lasernet Connector.

1. Go to Tables in **Query wizard** and add a new query.

2. Set the property **Group by** to **Yes.**

Selected tables

Relation/Layout ↓ Load from report...

▲ Data sources
  ▲ Query
    ▲ InventTable
        InventTransGroup Group by

▲ PROPERTIES

Property	Value	A...
Name	InventTransGroup	
Group by	Yes	☑
Cross-company	No	☐
Data sources		
Query in SQL		

3. Add the table you want to group by.

Selected tables

Relation/Layout ↓ Load from report...

→
+
←
⊞

▲ Data sources
  ▲ Query
    ▲ InventTable
      ▲ InventTransGroup Group by
          InventTrans

4. Add the fields you want to group by.

Result:

This will provide one record per Itemid and DatePhysical.

```xml
-<InventTable>
  <LABEL_InventTable_RecId>Record ID</ LABEL_InventTable_RecId>
  <LABEL_InventTable_ItemId>Item number</ LABEL_InventTable_ItemId>
 -<Detail_Collection>
  -<Detail>
     <LACQueryRecord_DONOT_CHANGE_InventTable>1</ LACQueryRecord_DONOT_CHANGE_InventTable>
     <FIELD_InventTable_RecId>22565421797</ FIELD_InventTable_RecId>
     <FIELD_InventTable_ItemId>T0001</ FIELD_InventTable_ItemId>
    -<InventTrans>
       <LABEL_InventTrans_ItemId>Item number</ LABEL_InventTrans_ItemId>
       <LABEL_InventTrans_DatePhysical>Physical date</ LABEL_InventTrans_DatePhysical>
      -<Detail_Collection>
       -<Detail>
          <LACQueryRecord_DONOT_CHANGE_InventTrans>2</ LACQueryRecord_DONOT_CHANGE_InventTrans>
          <GROUPBY_InventTrans_ItemId>T0001</ GROUPBY_InventTrans_ItemId>
          <GROUPBY_InventTrans_DatePhysical/>
        </ Detail>
       -<Detail>
          <LACQueryRecord_DONOT_CHANGE_InventTrans>3</ LACQueryRecord_DONOT_CHANGE_InventTrans>
          <GROUPBY_InventTrans_ItemId>T0001</ GROUPBY_InventTrans_ItemId>
          <GROUPBY_InventTrans_DatePhysical>1/15/2015</ GROUPBY_InventTrans_DatePhysical>
        </ Detail>
       -<Detail>
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          <GROUPBY_InventTrans_ItemId>T0001</ GROUPBY_InventTrans_ItemId>
          <GROUPBY_InventTrans_DatePhysical>2/15/2015</ GROUPBY_InventTrans_DatePhysical>
        </ Detail>
       -<Detail>
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          <GROUPBY_InventTrans_ItemId>T0001</ GROUPBY_InventTrans_ItemId>
          <GROUPBY_InventTrans_DatePhysical>3/15/2015</ GROUPBY_InventTrans_DatePhysical>
        </ Detail>
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          <LACQueryRecord_DONOT_CHANGE_InventTrans>7</ LACQueryRecord_DONOT_CHANGE_InventTrans>
          <GROUPBY_InventTrans_ItemId>T0001</ GROUPBY_InventTrans_ItemId>
          <GROUPBY_InventTrans_DatePhysical>5/15/2015</ GROUPBY_InventTrans_DatePhysical>
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       -<Detail>
          <LACQueryRecord_DONOT_CHANGE_InventTrans>8</ LACQueryRecord_DONOT_CHANGE_InventTrans>
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          <GROUPBY_InventTrans_DatePhysical>5/16/2015</ GROUPBY_InventTrans_DatePhysical>
        </ Detail>
```

Calculation

It is also possible to calculate your fields. Go to fields in the **Query wizard** and add the field you wish to calculate. Within the properties, you can set up your calculation.
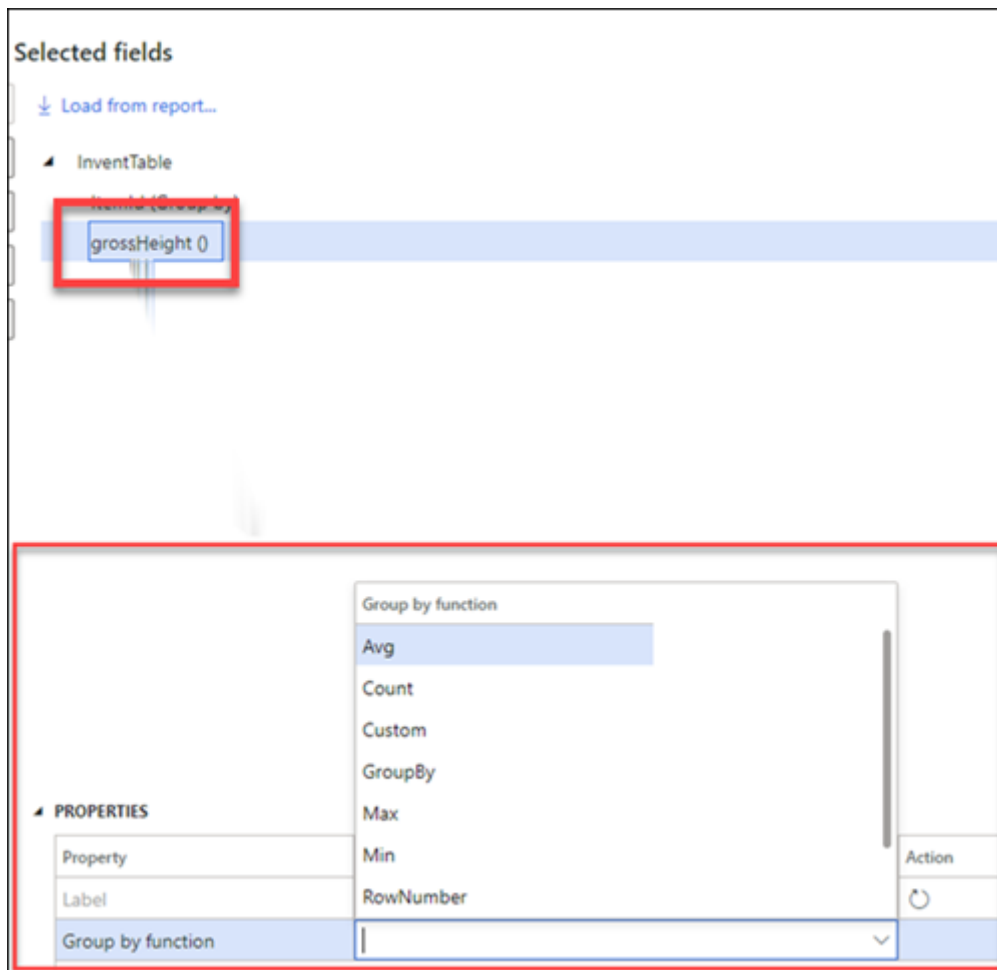
It is also possible to write Direct SQL by choosing **Custom** in the property **Group by function.**

SELECT SUM(SalesLine.QtyOrdered) FROM SalesLine WHERE SalesLine.ItemId=InventTable.itemId

Result:

The sum is for all legal entities/companies.

To obtain the sum by legal entities/companies, follow these steps:

1. Add **Field=DataAreaId** to your table using the right arrow button.
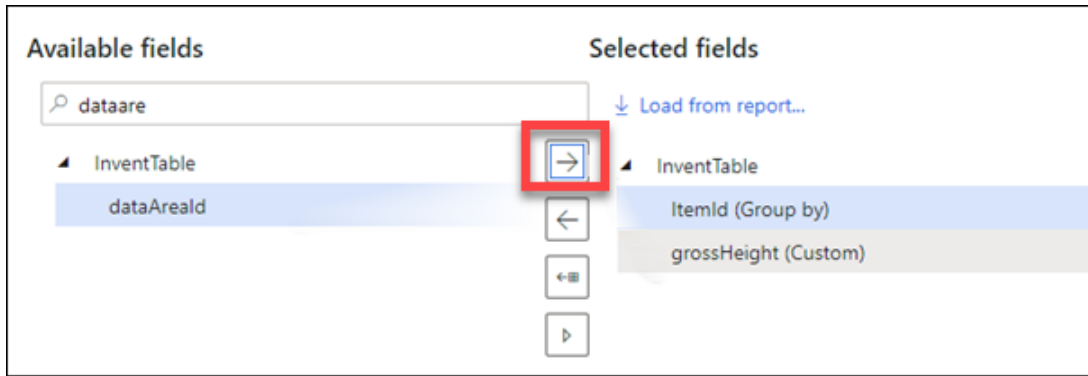
2. The following dialog will be displayed, choose **Yes**.
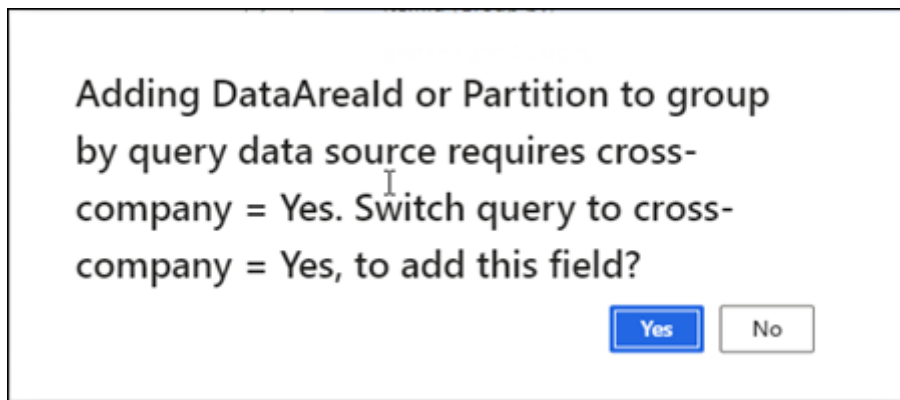
3. Change your **Direct SQL** to include DataAreaId in your WHERE clause.

SELECT SUM(salesLine.QtyOrdered) FROM SalesLine WHERE
SalesLine.ItemId=InventTable.itemId AND SalesLine.DataAreaId=InventTable.DataAreaId

Result:

```
-<InventTable>
  <LABEL_InventTable_ItemId>Item number</ LABEL_InventTable_ItemId>
  <LABEL_InventTable_grossHeight>Qty</ LABEL_InventTable_grossHeight>
  <LABEL_InventTable_dataAreaId>dataAreaId</ LABEL_InventTable_dataAreaId>
 -<Detail_Collection>
  -<Detail>
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  -<Detail>
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  -<Detail>
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   </ Detail>
  -<Detail>
     <LACQueryRecord_DONOT_CHANGE_InventTable>4</ LACQueryRecord_DONOT_CHANGE_InventTable>
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   </ Detail>
  -<Detail>
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  -<Detail>
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     <GROUPBY_InventTable_dataAreaId>usmf</ GROUPBY_InventTable_dataAreaId>
   </ Detail>
  </ Detail_Collection>
 </ InventTable>
```

Size of the XML file

The smaller the size of the XML/Grab file, the better the performance will be. Try as much as possible to set up your structure and calculations in the Lasernet Connector. Follow these steps as a guide:

1. Delete Tables and Fields not used by **Query wizard**.

2. Test your report with real and sufficient data.

3. Check your table relations to ensure that you do not get unnecessary data/structures.

4. Use the Lasernet Connector to group and calculate data; it is often faster than, for example, using an XML transformer in Lasernet Developer.