How to Get the Best Out of OTBI Reporting for Financials Cloud – Tips and Techniques
Disclaimer

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Purpose

The purpose of this White Paper is to share tips and techniques by answering frequently asked questions and make OTBI report authoring more efficient. The document is aimed at any role in a customer or partner organization chartered to develop OTBI reports in Oracle Financials Cloud.

Introduction

The following FAQ’s have been compiled based on commonly encountered issues reported by Oracle Financials Cloud customers to the Oracle OTBI Product Development teams. They should not be seen by any means as exhaustive nor do they serve as alternative to product documentation. This is a living document and is expected to be updated with even more tips as more such feedback is received.

Frequently Asked Questions & Troubleshooting Tips

1. What are the common reasons that reports created from the ‘General Ledger – Balance Real Time’ subject area fail?
   - This subject area uses Essbase in the back end. To use this subject area, you need to:
     (i) apply required filters at report runtime,
     (ii) expose required attributes in the report, and
     (iii) run ESS programs to import Fusion data extensions for OTBI

   Users may encounter the following issues if they miss any one of the required steps above.
   - Reports return internal errors (nQSError).
   - Reports return incorrect results.
   - User cannot select any data from dashboard prompts or filters.
   - Reports return no rows.

   The reports fail or return incorrect results without required filters and columns. Please make sure those prerequisites are implemented in your report.

   Here is the quick summary of the items you should check first:

<table>
<thead>
<tr>
<th>Check Item</th>
<th>Dimension</th>
<th>Column</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Filters</td>
<td>Ledger</td>
<td>Chart of Accounts</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ledger Name*</td>
</tr>
<tr>
<td></td>
<td>Time</td>
<td>Accounting Period Set Name</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Accounting Period Name*</td>
</tr>
<tr>
<td>Required Attributes**</td>
<td>Currency</td>
<td>Currency</td>
</tr>
</tbody>
</table>
### Amount Type

- **Scenario**
- **Ledger**
- **Time**

### Excluded Attributes

- **Scenario**
- **Ledger Name**
- **Accounting Period Name**
- **Currency Description**
- **Ledger Description**

* You need to either include this in the filter or add it as a displayed attribute.

** You can hide these attributes if necessary but need to include them in the report.

*** Please include “Accounting Period Set Name” only in the filter.

**** There is a known OBIEE limitation for these columns. The report could return incorrect results.

Please use the following as a template and change the filters as per your setup:

```sql
SELECT
  "General Ledger - Balances Real Time"."Amount Type"."Amount Type" s_1,
  "General Ledger - Balances Real Time"."Balancing Segment"."Balancing Segment Code" s_2,
  "General Ledger - Balances Real Time"."Cost Center Segment"."Cost Center Code" s_3,
  "General Ledger - Balances Real Time"."Currency Type"."Currency Type" s_4,
  "General Ledger - Balances Real Time"."Currency"."Currency" s_5,
  "General Ledger - Balances Real Time"."Chart Of Account" s_6,
  "General Ledger - Balances Real Time"."Ledger Name" s_7,
  "General Ledger - Balances Real Time"."Natural Account Segment"."Natural Account Segment Code" s_8,
  "General Ledger - Balances Real Time"."Chart Of Account"."Accounting Period Set Name" s_9,
  "General Ledger - Balances Real Time"."Chart Of Account"."Chart Of Account" s_10,
  DESCRIPTOR_IDOF("General Ledger - Balances Real Time"."Amount Type"."Amount Type") s_11,
  DESCRIPTOR_IDOF("General Ledger - Balances Real Time"."Scenario"."Scenario") s_12,
  SORTKEY("General Ledger - Balances Real Time"."Time"."Fiscal Period") s_13,
  "General Ledger - Balances Real Time"."Balances"."Beginning Balance" s_14,
  "General Ledger - Balances Real Time"."Balances"."Ending Balance" s_15,
  "General Ledger - Balances Real Time"."Balances"."Period Net Activity" s_16
FROM "General Ledger - Balances Real Time"
WHERE
  ((("Ledger"."Ledger Name" = 'xxxxx')
  AND ("Ledger"."Chart Of Account" = 'xxxx')
  AND ("Time"."Fiscal Period" = 'Jan-19')
  AND ("Currency Type"."Currency Type" = 'Total')
  AND ("Currency"."Currency" = 'GBP')
  AND ("Time"."Fiscal Calendar Name" = 'xxxx'))
  AND (DESCRIPTOR_IDOF("General Ledger - Balances Real Time"."Amount Type"."Amount Type") = 'PTD')
  AND (DESCRIPTOR_IDOF("General Ledger - Balances Real Time"."Scenario"."Scenario") = 'Actual'))
```

Please find below, specific error scenario and solutions to overcome:

** (a) Reports Return Internal Errors (nQSError)

a-1: Missing Required Filter
This subject area has required filters “Time – (Fiscal Calendar) Name”, and “Ledger – Chart of Accounts”. For example, when you do not apply one of the required filters “Time – (Fiscal Calendar) Name”, the report returns an error “You may be able to evaluate this query if you remove one of the following column references..”.

Error Message:

When you apply a filter for Fiscal Calendar Name:
Then, the report will complete successfully.

<table>
<thead>
<tr>
<th>Balancing Segment</th>
<th>Natural Account Segment</th>
<th>Cost Center</th>
<th>Accounting Period</th>
<th>Beginning Balance</th>
<th>Period Net Activity Debit</th>
<th>Period Net Activity Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total</td>
<td>All</td>
<td>All</td>
<td>Dec-12</td>
<td>-2.0</td>
<td>2532221.1</td>
<td>2532221.1</td>
</tr>
</tbody>
</table>

Please make sure you apply the required filters.

**a-2: Flexfield Setup Issue**

After applying the correct filters, if your report still returns the error “You may be able to evaluate this query if you remove one of the following column…” please check if BI extension has been applied successfully.

1. Login Fusion Applications and go to Schedule Processes.
2. Find the latest run for “Import Oracle Fusion Data Extensions for Transactional Business Intelligence”.
3. Open the log file for the ESS program and search string “Error”.
4. Fix errors in the Message Code column (see the screenshot below). Otherwise, the BI extension is not applied. In the following example, you need to redeploy flexfield GL# (cf. Doc ID 1980180.1). Please note you need to fix all errors even if you do not use the objects.

Note: You can ignore the following errors in the log:

- Error 1053014: Object birules does not exist
- ORA-06512: at "FUSION.FUN_OTBI_EXTENSION_VALIDATOR"
5. After fixing all errors, please re-run the following two programs:
   » Create Rules XML File for BI Extender Automation
   » Import Oracle Fusion Data Extensions for Transactional Business Intelligence

(b) Cannot Find Fiscal Calendar in Choice List

Fiscal Calendar Name has two sources - ADF & Essbase. The column “User Period Set name” and “Period Set Name” are mapped to ADF and Essbase respectively. The choice list for Fiscal Calendar Name hits the ADF objects. Your report may not return records if you use the choice list to specify the fiscal calendar filter. Currently you need to type in Period Set Name for Balance Real Time as workaround.

In the following example, the report has a filter on period set name “Accounting”.

The report returns the following result, which is correct.

<table>
<thead>
<tr>
<th>Name</th>
<th>Accounting Period Name</th>
<th>Ledger Name</th>
<th>Apps Local Currency Code</th>
<th>Beginning Balance</th>
<th>Ending Balance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounting</td>
<td>Dec 09</td>
<td>Vision Operations (USA)</td>
<td>USD</td>
<td>0</td>
<td>7,800</td>
</tr>
</tbody>
</table>

In the Choice List for (Fiscal Calendar) Name, you cannot find “Accounting”. Instead, you see “user” period set name “AccountingMon1” for “Accounting”.
When you use “AccountingMon1” instead of “Accounting” as the filter, the report does not return any row. You need to type in “Accounting” for the filter.

(c) Reports Return No Rows

Case 1: Missing Required Filters
Depending on your report definition, your report may complete successfully even when you do not apply the required filters.

Report Output

However, in this case, the report does not use Essbase. Instead, it retrieves data from a relational database source and may not return correct results. Please make sure you apply the required filters when using this subject area.

Note: If you do not use Ledger Name as filter, then you must add it as a selected column. Otherwise the report does not return data. The same applies to Accounting Period Name.

Case 2: Missing “Apps Local Currency Code”* in Your Report
Suppose you report is missing “Apps Local Currency Code”.
Even with correct filters, the report returns no rows.

Add “Apps Local Currency Code” to the report.

Then it will return data.

<table>
<thead>
<tr>
<th>Accounting Period Name</th>
<th>Apps Local Currency Code</th>
<th>Account Code</th>
<th>Beginning Balance</th>
<th>Ending Balance</th>
</tr>
</thead>
<tbody>
<tr>
<td>May-12</td>
<td>USD</td>
<td>1110</td>
<td>3,206,547,837,587.36</td>
<td>3,206,298,587,779.36</td>
</tr>
</tbody>
</table>

*: Use “Currency” for newer releases.

**Case 3: Did Not Run ESS Programs to Import Fusion Data Extensions**

You need to run the following ESS programs for each cube to import Fusion Data Extensions. Please make sure you have run them:

- Create Rules XML File for BI Extender Automation
- Import Oracle Fusion Data Extensions for Transactional Business Intelligence
**Case 4: Filter for Ragged Hierarchies**

When using ragged hierarchies in General Ledger – Balances Real Time, filters on the code column (e.g. Account Code) may result in no data returned.

You need to be aware of the following points:

- The code column (e.g. Account Code) returns the last level of the deepest hierarchy when your query retrieves data from Essbase.

- Dimension only queries hit ADF sources not Essbase. The ADF has a flattened hierarchy where the last level is repeated.

- Each GL segment has a default tree “All <GL Segment> Values” which has all the nodes added as children for this tree.

In the following example, Account 52386 is a leaf node of the ragged hierarchy but when you apply filter “Account Code is equal to / is in 52386”, the report does not return any data. This is because account 52386 is not at the last level of the hierarchy and Account Code is null for the balance record.

On the other hand, if you run a dimension only query or do search in the filter for “Account Code”, you see all nodes at different levels.
This is because the query hits an ADF source instead of Essbase. If you select account 52386 from the choice list in the filter for the balance report (not dimension only queries), it does not return any data as Account Code is null for the balance row. The filter works only for the last level of the deepest hierarchy (e.g. 53431, 53432, and so on).

You can use the following methods:


The report returns the following data:

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>729594</td>
<td>99999</td>
<td>EXP</td>
<td>52386</td>
<td>52000</td>
<td>53000</td>
<td>53431</td>
<td>53432</td>
<td>53431</td>
<td>53431</td>
</tr>
<tr>
<td>995587</td>
<td>986527</td>
<td>EXP</td>
<td>52386</td>
<td>52000</td>
<td>53000</td>
<td>53431</td>
<td>53432</td>
<td>53431</td>
<td>53431</td>
</tr>
</tbody>
</table>

The filtering could be challenging unless you are familiar with the tree structure.

2. Create a new column returning leaf nodes and apply filters on it.

Add a new column to your report with the following formula which returns leaf nodes. You need to change the expression based on the depth of your tree structure. The following example is for the case the last level is 25.

```sql
CASE WHEN "Natural Account Segment"."Account Code" IS NULL THEN
    CASE WHEN "Natural Account Segment"."Account Level 25 Code" IS NULL THEN
        CASE WHEN "Natural Account Segment"."Account Level 26 Code" IS NULL THEN
            CASE WHEN "Natural Account Segment"."Account Level 27 Code" IS NULL THEN
                CASE WHEN "Natural Account Segment"."Account Level 28 Code" IS NULL THEN
                    CASE WHEN "Natural Account Segment"."Account Level 29 Code" IS NULL THEN
                        CASE WHEN "Natural Account Segment"."Account Level 30 Code" IS NULL THEN
```

The filtering could be challenging unless you are familiar with the tree structure.
This attribute ("Leaf") returns leaf nodes for ragged hierarchies.

```
"Natural Account Segment"."Account Level 31 Code"
ELSE
"Natural Account Segment"."Account Level 30 Code"
END
ELSE
"Natural Account Segment"."Account Level 29 Code"
END
ELSE
"Natural Account Segment"."Account Level 28 Code"
END
ELSE
"Natural Account Segment"."Account Level 27 Code"
END
ELSE
"Natural Account Segment"."Account Level 26 Code"
END
ELSE
"Natural Account Segment"."Account Level 25 Code"
END
ELSE
"Natural Account Segment"."Account Code"
END
```

By applying filters on "Leaf",

AND CASE WHEN Account Code IS NULL THEN CASE WHEN Account Level 25 Code IS NULL THEN CASE WHEN Account Level 20 Code IS NULL THEN CASE WHEN Natural Account Segment IS equal to "is in 52381, 53411

You will see balances for the specified criteria irrespective of the node levels.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>729005.4</td>
<td>60003</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>60003</td>
<td>All Account Values</td>
</tr>
<tr>
<td>25338</td>
<td>60004</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>60004</td>
<td>All Account Values</td>
</tr>
<tr>
<td>52381</td>
<td>60001</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>60001</td>
<td>All Account Values</td>
</tr>
<tr>
<td>20278075.9</td>
<td>705055</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>705055</td>
<td>All Account Values</td>
</tr>
<tr>
<td>729005.4</td>
<td>60006</td>
<td>EXP</td>
<td>52900</td>
<td>52006</td>
<td>53306</td>
<td></td>
<td></td>
<td></td>
<td>53306</td>
<td>All Account Values</td>
</tr>
<tr>
<td>12345678.9</td>
<td>705055</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>705055</td>
<td>All Account Values</td>
</tr>
<tr>
<td>729005.4</td>
<td>60006</td>
<td>EXP</td>
<td>52900</td>
<td>52006</td>
<td>53306</td>
<td></td>
<td></td>
<td></td>
<td>53306</td>
<td>All Account Values</td>
</tr>
<tr>
<td>12345678.9</td>
<td>705055</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>705055</td>
<td>All Account Values</td>
</tr>
<tr>
<td>729005.4</td>
<td>60006</td>
<td>EXP</td>
<td>52900</td>
<td>52006</td>
<td>53306</td>
<td></td>
<td></td>
<td></td>
<td>53306</td>
<td>All Account Values</td>
</tr>
<tr>
<td>12345678.9</td>
<td>705055</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>705055</td>
<td>All Account Values</td>
</tr>
<tr>
<td>729005.4</td>
<td>60006</td>
<td>EXP</td>
<td>52900</td>
<td>52006</td>
<td>53306</td>
<td></td>
<td></td>
<td></td>
<td>53306</td>
<td>All Account Values</td>
</tr>
<tr>
<td>12345678.9</td>
<td>705055</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>705055</td>
<td>All Account Values</td>
</tr>
</tbody>
</table>

3. Use tree “All <Segment Name> Values” and apply filter on “Level 31 Code”.

Each segment has a default tree called “All <Segment Name> Values”. For this tree, the Level 31 Code column returns all leaf nodes (again, you need to apply required filters to see them).
You just need to apply filters on Level 31 Code and Tree Filter.

2. How do I report on GL journals and their related Subledger journals (SLA)?

   » For given GL journals, you may want to view their corresponding SLA journals. The following steps describe the details to implement drill from a GL journal line to corresponding SLA journal lines.

   The attribute names may vary depending on your OTBI version.

   **Step 1:** Create a new GL journal report for filtering.
   Create a new report to retrieve “General Ledger to Subledger Link Identifier”. Add filters for “Journal Header Identifier” and “Journal Line Num” with operator “Is prompted”.

   **GL Journal Filter Report Definition**

   ![GL Journal Filter Report Definition](image)

   **Step 2:** Create a Subledger Journal report to which you want to drill.
   Go to subject area “Subledger Accounting – Journals Real Time”. Add a filter on “General Ledger to Subledger Link Table (GL SLA Link Table) (= XLAJEL)” as in the following screen shot.

   **SLA Journal Report Definition**
And then, create a filter based on the report “GL Journals Filter” created in Step 1.

Filter on General Ledger to Subledger Link Identifier

Step 3: Expose “Journal Header Identifier” and “Journal Line Number” in your GL journal report.

Modify your GL journal report to expose “Journal Header Identifier” and “Journal Line Number”.

GL Journal Report Definition

Step 4: Add Action Links to Amount Columns

4.1. Open “Column Properties” on amount columns.
4.2. For “Value”, select Primary Interaction “Action Links” and click the plus sign (“Add Action Links”).

4.3. Enter Link Text (e.g. "SLA Journals"), click "+", and then select "Navigate to BI Content".
4.3. Select the target report “SLA Journals” you have created in step 2.

4.4. Click OK and save the report.

**Report Run Time:**

Run the GL journal report and click the amount column. Then, select the link text “SLA Journals”.

You will see the details of the corresponding SLA entries.
3. Why does my report fail when I include attributes from GL Segments?

» When you include GL segments (Balancing Segment, Natural Account, Cost Center, and so on), the report fails with nQSError 15018.


In this case, please make sure you have run ESS program “Import Oracle Fusion Data Extensions for Transactional Business Intelligence” to import flexfield related extensible data.

4. Why does my report take long when I add certain attributes?

» Report attributes are sourced from tables with different levels of granularity. Adding certain attributes brings in a large table which affects the report performance. For example, in the following report, “Invoice Accounting Date” under “Invoice Details – General Information” is sourced from invoice headers.

If you replace “Invoice Accounting Date” with “Accounting Date” under “Accounting – Accounting Date”, the report could take longer. This is because this new column brings in additional tables for subledger journal entries. If header information satisfies your requirement, in general, you better off not including attributes at more granular level in your report for better performance.

5. Why are my amounts getting multiplied in my AP reports?
When using filters on a report at a more detail level than the amounts and not including those filter columns as attributes of the report the amounts may multiply. For example, assume you have an invoice with (header) amount $1,384 and approvers made multiple actions on the invoice. When the report has a filter on Approver like "Approver is equal to / is in Ted Brown; Mary Johnson", then it returns invoice amount $2,768 (= $1,384 * 2).

If you add the more detail attributes (Approval Action and Approver) to the report, the amount does not multiply.
6. Why are my amounts getting multiplied in my reports when I include GL segments?

» When you define multiple tree versions for an attribute (e.g. Balancing Segments, Natural Account, and Cost Center), you need to add a filter to your report to specify a unique tree version. Otherwise, your amounts will be multiplied.

[Edit Journal]

The report returns 400,000,000 instead of 100,000,000.

[General Ledger – Journals Real Time: No filter on Tree]
The report returns the correct debit amount after applying the tree filter.

When the issue still persists after applying the tree filter, you may have defined duplicate nodes for the tree version. In this case, you need to either filter out one of the nodes in your report or fix the tree version to eliminate the duplicate entries.

**Note:** For 18C or later, please refer to the following note:

- White Paper 18C upgrade Uptake_v1 - Tree filters defined on chart of accounts segments in the filter condition of the analyses are getting timed out (Doc ID 2492388.1)

7. How do I create a report that shows AP invoices, corresponding payments, holds and installments?

- For given invoices, you may want to display payment information. The following steps describe the details to implement the report.

  **Note:** All cross subject area rules must be applied here. See the following document for the details:

  - Fusion Applications OTBI: Guidelines for creating cross subject area analyses in Oracle Transactional BI (OTBI) (Doc ID 1567672.1)

**Step 1:** Select subject area “Payables Invoices – Transactions Real Time”.
Step 2: Add subject area “Payables Payments – Disbursements Real Time”.

2.1. Click “Add / Remove Subject Areas”.

2.2. Select “Payables Payments – Disbursements Real Time” and click OK.

You will see the two subject areas.

2.3. Add subject area “Payables Invoices – Holds Real Time” and “Payables Invoices – Installments Real Time”.

Step 3: Add attributes to your report.

Example 1: Invoice, Payment, Hold, and Installment:

<table>
<thead>
<tr>
<th>Subject Area</th>
<th>Folder</th>
<th>Column</th>
</tr>
</thead>
<tbody>
<tr>
<td>Payables Invoices – Transactions Real Time</td>
<td>Invoice Details – General Information</td>
<td>Invoice Cancelled Date</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Invoice Date</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Invoice Description</td>
</tr>
</tbody>
</table>
### Invoice Details

<table>
<thead>
<tr>
<th>Invoice Created By</th>
<th>Invoice Creation Date</th>
<th>Invoice Number</th>
<th>Invoice Received Date</th>
<th>Invoice Type Code</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Invoice Details – Reference Information

<table>
<thead>
<tr>
<th>Invoice Source Code</th>
<th>Pay Group</th>
<th>Payment Status Indicator</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Business Unit

<table>
<thead>
<tr>
<th>Business Unit Name</th>
<th>Supplier</th>
<th>Supplier Number</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Supplier

<table>
<thead>
<tr>
<th>Site</th>
<th>Supplier Site</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Invoice Details – Invoice Amounts

<table>
<thead>
<tr>
<th>Invoice Currency</th>
<th>Invoice Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Payables Payments – Disbursements Real Time

<table>
<thead>
<tr>
<th>Payment Header Details - Payment Information</th>
<th>Payment Date</th>
<th>Payment Status Code</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Payment Header Details – Payment Amounts

<table>
<thead>
<tr>
<th>Payment Amount</th>
<th>Hold Date</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Payables Invoices – Holds Real Time

<table>
<thead>
<tr>
<th>Invoice Hold Details</th>
<th>Hold Name</th>
<th>Hold Reason</th>
<th>Release Reason</th>
<th>Hold Count</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Payables Invoices – Installments Real Time

<table>
<thead>
<tr>
<th>Invoice Installment Details</th>
<th>Installment Number</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Invoice Installment Amounts

<table>
<thead>
<tr>
<th>Gross Amount</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Example 2: Invoice Lines, Distributions and Payments:

<table>
<thead>
<tr>
<th>Subject Area</th>
<th>Folder</th>
<th>Column</th>
</tr>
</thead>
<tbody>
<tr>
<td>Payables Invoices – Transactions Real Time</td>
<td>Accounting – Accounting Date</td>
<td>Accounting Date</td>
</tr>
<tr>
<td></td>
<td>Invoice Details – General Information</td>
<td>Invoice Date</td>
</tr>
<tr>
<td>Category</td>
<td>Description</td>
<td></td>
</tr>
<tr>
<td>----------------------------------------------</td>
<td>-----------------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td><strong>Invoice Entered Date</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Invoice Number</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Invoice Type Code</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Invoice Details – Invoice Amounts</strong></td>
<td><strong>Invoice Amount in Ledger Currency</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Invoice Amount</strong></td>
<td><strong>Invoice Currency</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Invoice Currency</strong></td>
<td><strong>Ledger Currency</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Invoice Amount Paid</strong></td>
<td><strong>Distribution Line Number</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Distributions – Invoice Distribution Details</strong></td>
<td><strong>Distribution Amount</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Distributions – Invoice Distributions</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Invoice Lines – Invoice Line Amounts</strong></td>
<td><strong>Applied Prepayments in Ledger Currency</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Included Tax Amount</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Invoice Line Amount</strong></td>
<td><strong>Withheld Amount in Entered Currency</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Withheld Amount in Ledger Currency</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Invoice Lines – Invoice Line Details</strong></td>
<td><strong>Invoice Line Type Code</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Invoice Line Number</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Invoice Lines - Item</strong></td>
<td><strong>Item Description</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Business Unit</strong></td>
<td><strong>Business Unit Name</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Supplier</strong></td>
<td><strong>Supplier</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Supplier Number</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Supplier Site</strong></td>
<td><strong>Site</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Payables Payments – Disbursements Real Time</strong></td>
<td><strong>Payment Amount</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Payment Header Details - Payment Amounts</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Payment Header Details – Payment Information</strong></td>
<td><strong>Payment Date</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
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</tr>
</tbody>
</table>
8. When I add a tree filter, my report becomes extremely slow. What should I do?

» Please remove tree filters from both the selected columns and the filters (Exception: General Ledger Balances Real Time still requires the tree filters). For the details, please refer to the following document:

- White Paper 18C upgrade Uptake_v1 - Tree filters defined on chart of accounts segments in the filter condition of the analyses are getting timed out (Doc ID 2492388.1)

9. Account Hierarchies are only exposed in General Ledger – Balances Real Time Subject Area. How can I display parent nodes in other subject areas?

» Due to performance reasons, the hierarchies for qualified and non-qualified segments are not exposed in non-Essbase subject areas. You can use cross subject area reporting as follows. Please note you may have performance issues depending on data volume and report definitions. In the following example, Account Level 31 Code and Account 30 Level Code are from General Ledger – Balances Real Time and the others are from General Ledger – Journals Real Time.

Note: Please do not include the filter for Accounting Period Set Name and Chart of Accounts. There is limitation of conforming the Essbase based subject area and others. The query for the Balances Real Time needs to hit ADF objects instead of Essbase cubes.

```
SELECT
  "GENERAL LEDGER - BALANCES REAL TIME"."NATURAL ACCOUNT SEGMENT"."NATURAL ACCOUNT SEGMENT LEVEL 30 CODE" S_1,
  "GENERAL LEDGER - BALANCES REAL TIME"."NATURAL ACCOUNT SEGMENT"."NATURAL ACCOUNT SEGMENT LEVEL 31 CODE" S_2,
  "GENERAL LEDGER - JOURNALS REAL TIME"."- HEADER DETAILS"."JOURNAL NAME" S_3,
  "GENERAL LEDGER - JOURNALS REAL TIME"."- LEDGER"."LEDGER NAME" S_5,
  "GENERAL LEDGER - JOURNALS REAL TIME"."TIME"."FISCAL PERIOD" S_6,
  "GENERAL LEDGER - JOURNALS REAL TIME"."JOURNAL LINE AMOUNTS"."JOURNAL TOTAL ACCOUNTED DEBIT" S_8,
  "GENERAL LEDGER - JOURNALS REAL TIME"."JOURNAL LINE AMOUNTS"."JOURNAL TOTAL ACCOUNTED CREDIT" S_9
FROM "GENERAL LEDGER - JOURNALS REAL TIME"
WHERE (("TIME"."FISCAL PERIOD" = 'JAN-09')
AND (* LEDGER:"LEDGER NAME" = 'VISION OPERATIONS (USA)')
AND (*GENERAL LEDGER - BALANCES REAL TIME:"NATURAL ACCOUNT SEGMENT"."NATURAL ACCOUNT SEGMENT TREE FILTER" = 'ALL ACCOUNTS-ALL ACCOUNTS_V1')
AND (*GENERAL LEDGER - BALANCES REAL TIME:"NATURAL ACCOUNT SEGMENT"."NATURAL ACCOUNT SEGMENT LEVEL 30 CODE" = 'ASST'))
```

More FAQ's can be found in the OTBI Help Center accessible from Oracle Business Intelligence pages: Help -> Help Contents -> OTBI Help.
Miscellaneous Topics

Cross Subject Area Reports
Please refer to the following document:

- Fusion Applications OTBI: Guidelines for creating cross subject area analyses in Oracle Transactional BI (OTBI) (Doc ID 1567672.1)

BI Extension / Trees
Please refer to the following document:

- Fusion Financials OTBI : Setting up General Ledger (GL) Accounting Segments (Key Flexfields KFFs) for OTBI reporting (Doc ID 1980180.1)

Performance Tips
More often than not, end users need information to answer specific business questions that can be best met by targeted queries. You should avoid creating reports that return large data sets. The following is a list of tips which can be used as guidelines.

6. When large reports are needed, consider using Contextual Action Links to navigate to detailed reports from the main summarized report.
7. Avoid table prompts on columns with huge data volumes (e.g. Bill-to Customer Name).
8. Include sufficient filters for reports that need to show hierarchical dimensions,
9. When using attributes at various levels (Header, Line, Distribution, Accounting), ensure that there is at least one measure included in the report from each of the attributes at that level.
10. Use report filters that present summarized information. The following table shows the list of filters that should be applied on reports created from respective subject areas:
APPENDIX – Recommended Filters for Successful Reporting

<table>
<thead>
<tr>
<th>Subject Area</th>
<th>Presentation Columns (* Required Filter)</th>
</tr>
</thead>
</table>
| General Ledger – Balance Real Time               | * Time - (Fiscal Calendar) Name*  
|                                                  | * Ledger - Chart of Accounts *  |
| General Ledger – Transactional Balances Real Time| * Ledger – Ledger Name  
|                                                  | * Time – Accounting Period Name                                                                         |
| General Ledger – Journals Real Time              | * Ledger - Ledger Name  
|                                                  | * Time - Accounting Period Name  
|                                                  | * Natural Account Segment - Natural Account Segment                                                      |
| Subledger Accounting – Journals Real Time        | * Ledger - Ledger Name  
|                                                  | * Journal Details – Header Period Name                                                                    |
| Payables Invoices – Hold Real time               | * Time – Month  
|                                                  | * Fiscal Calendar – Fiscal Period  
|                                                  | * Business Unit – Business Unit Name                                                                     |
|                                                  | * Legal Entity – Legal Entity Name                                                                      |
|                                                  | * Supplier – Supplier Name                                                                               |
|                                                  | * Invoice Details – General Information – Invoice Date (if you need to report on all of the Payables Invoices across all common dimensions.) |
| Payables Invoices – Installments Real Time       | Same as above.                                                                                           |
| Payables Invoices – Prepayment Applications Real Time | Same as above.  |
| Payables Invoices – Transactions Real Time       | Same as above.                                                                                           |
| Payables Invoices – Trial Balance Real Time      | Same as above.                                                                                           |
| Payables Invoices – Withholding Real Time        | Same as above.                                                                                           |
| Payables Payments – Disbursements Real Time      | * Time – Month  
|                                                  | * Fiscal Calendar – Fiscal Period  
|                                                  | * Business Unit – Business Unit Name                                                                     |
|                                                  | * Legal Entity – Legal Entity Name                                                                      |
|                                                  | * Supplier – Supplier Name                                                                               |
| Payables Payments – Payment History Real Time    | Same as above.                                                                                           |
| Receivables – Adjustments Real Time              | * Time – Month  
|                                                  | * Fiscal Calendar – Fiscal Period  
|                                                  | * Business Unit – Business Unit Name                                                                     |
|                                                  | * Legal Entity – Legal Entity Name                                                                      |
|                                                  | * Bill-to Customer – Bill-to Customer Details – Bill-to Customer Name                                    |
| Receivables – Bills Receivable Real Time         | * Time – Month  
|                                                  | * Fiscal Calendar – Fiscal Period  
|                                                  | * Business Unit – Business Unit Name                                                                     |
|                                                  | * Legal Entity – Legal Entity Name                                                                      |
|                                                  | * Drawee – Drawee Details – Drawee Name                                                                   |
| Receivables – Credit Memo Applications Real Time | * Time – Month  
|                                                  | * Fiscal Calendar – Fiscal Period  
|                                                  | * Business Unit – Business Unit Name                                                                     |
|                                                  | * Legal Entity – Legal Entity Name                                                                      |
### Receivables – Credit Memo Requests Real Time
- Same as above.

### Receivables – Customer Account Site Tax Profile Real Time
- Time – Month
- Fiscal Calendar – Fiscal Period
- Business Unit – Business Unit Name
- Legal Entity – Legal Entity Name
- Customer – Customer Information – Customer Name

### Receivables – Customer Real Time
- Customer – Customer Information – Customer Name

### Receivables – Customer Tax Profile Real Time
- Customer – Customer Information – Customer Name

### Receivables – Miscellaneous Receipts Real Time
- Time – Month
- Fiscal Calendar – Fiscal Period
- Business Unit – Business Unit Name
- Legal Entity – Legal Entity Name
- Paying Customer – Paying Customer Details – Paying Customer Name

### Receivables – Payment Schedules Real Time
- Time – Month
- Fiscal Calendar – Fiscal Period
- Business Unit – Business Unit Name
- Legal Entity – Legal Entity Name
- Bill-to Customer – Bill-to Customer Details – Bill-to Customer Name

### Receivables – Receipt Conversion Rate Adjustments Real Time
- Time – Month
- Fiscal Calendar – Fiscal Period
- Business Unit – Business Unit Name
- Legal Entity – Legal Entity Name
- Paying Customer – Paying Customer Details – Paying Customer Name

### Receivables – Receipts Details Real Time
- Same as above.

### Receivables – Revenue Adjustments Real Time
- Time – Month
- Fiscal Calendar – Fiscal Period
- Business Unit – Business Unit Name
- Legal Entity – Legal Entity Name
- Bill-to Customer – Bill-to Customer Details – Bill-to Customer Name

### Receivables – Standard Receipts Application Details Real Time
- Time – Month
- Fiscal Calendar – Fiscal Period
- Business Unit – Business Unit Name
- Legal Entity – Legal Entity Name
- Paying Customer – Paying Customer Details – Paying Customer Name

### Receivables – Transactions Real Time
- Time – Month
- Fiscal Calendar – Fiscal Period
- Business Unit – Business Unit Name
- Legal Entity – Legal Entity Name
- Bill-to Customer – Bill-to Customer Details – Bill-to Customer Name

### Reference
- Fusion Applications OTBI: Guidelines for creating cross subject area analyses in Oracle Transactional BI (OTBI) (Doc ID 1567672.1)
- Fusion Financials OTBI: Setting up General Ledger (GL) Accounting Segments (Key Flexfields KFFs) for OTBI reporting (Doc ID 1980180.1)

- Fusion Applications OTBI/Essbase: General Ledger - Balances Real Time fails to Query The Essbase Cube, instead it queries the transactional database FSCM OLTP (Doc ID 1965181.1)