

Overview

Intro

Standard download functionality of APEX Interactive Reports is very simple and supports only basic features, but end user need eye-candy looking reach reports. Therefore report developers are forced to use third-party tools (BI Publisher, Apache FOP). There are problems to build such reports that correct reflect all customizations, because there are no standard way to get prepared dataset from Interactive Report.

APEX_IR.GET_REPORT function from APEX-API has only restricted support of IR-feature: compute, aggregate, calculations, highlights are not supported.

The "**GPV Interactive Report to XML**" APEX plugin provided simple access the data getting in IR by end user and save that in XML-format, ready to future processing. This solution is simple to use and don't required a lot of knowledge of Interactive Report internal.

Features at a Glance

These features of Interactive Reports are supported:

- Many features of Interactive Reports are supported:
- Filtering and Sorting
- Control Break
- Highlights
- Computations
- Aggregations
- Simple data types of column (String/Date/Number)
- Column and header alignment

Possibly is to include in XML values of page or application items.

Feature Requests and Bugs

If you would like to see additional functionality added to the plug-in, or if you have found a bug, please let us know by .

License

The "GPV Interactive Report to XML" APEX plugin and IR_TO_XML package is currently available for use in all personal or commercial projects under both MIT and GPL licenses. This means that you can choose the license that best suits your project and use it accordingly. Both licenses have been included with this software.

Legal Disclaimer

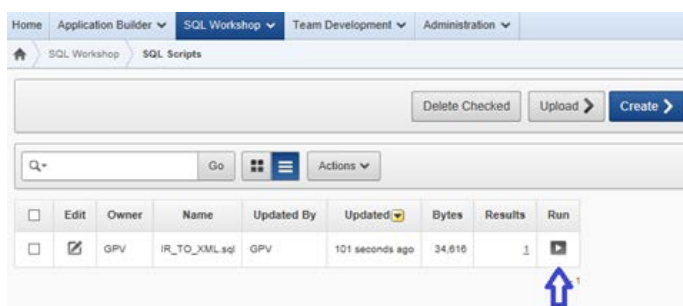
The program(s) and/or file(s) are supplied as is. The author disclaims all warranties, expressed or implied, including, without limitation, the warranties of merchantability and of fitness for any purpose. The author assumes no liability for damages, direct or consequential, which may result from the use of these program(s) and/or file(s).

Installation and Configuration

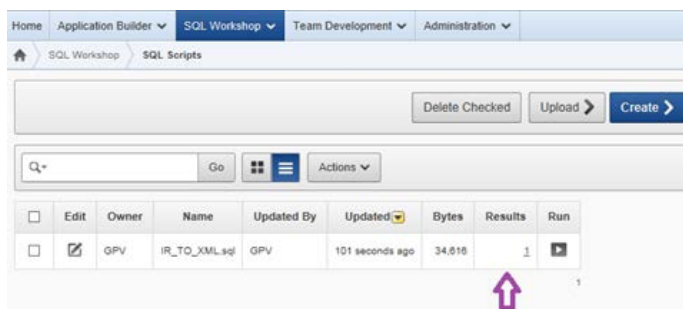
Installation

Install required package

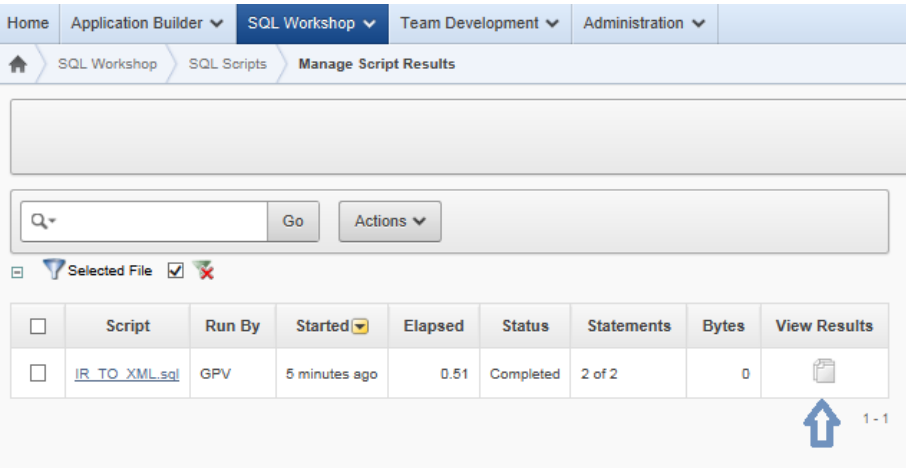
This plugin requires IR_TO_XML package. To install this package navigate to the "SQL-Workshop > SQL-Scripts". Upload file **IR_TO_XML.sql**.



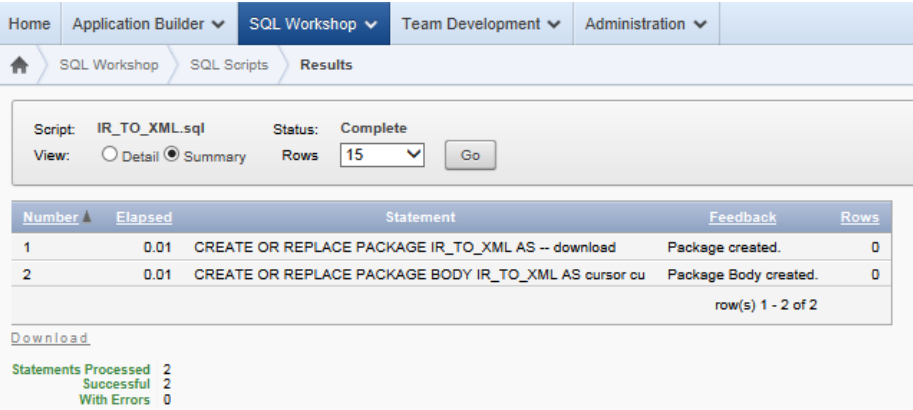
This script will be created IR_TO_XML package. Run this script by pressing Run-icon.



GPV Interactive Report to XML



After execution take a look at executions results. At first open “*Manage Script Results*” tab by pressing on link on **Results** column.



There must be no errors.

Install plugin

Navigate to “*Shared Components > Plug-ins*” and click **Import >**. From there you can follow the menu to upload plugin-file “**process_type_plugin_gpv_ir_xml.sql**” and install the plug-in using the file above.

Using in your application

1. First you must create button that will be started plugin.

The screenshot shows the 'Create Button' wizard in the Oracle APEX Application Builder. The breadcrumb trail is 'Home > Application Builder > Application 102 > Page 1 > Create Button'. The wizard has six steps: Button Region, Button Position, Button Attributes, Display Properties, Action When Clicked, and Conditional Display. The 'Button Attributes' step is currently active. The form contains the following fields:

- Page: 1 - Plugin Demonstration
- Region: Sample Interactive Report
- * Button Name: YOUR_BUTTON_NAME
- * Label: Get XML from Interactive Report
- Button Style: HTML Button
- Button Attributes: (empty text box)

Navigation buttons include 'Cancel', 'Create Button', and 'Next'.

Enter “Button name” and “Label”.

Please note the name you given; this will be used in the future.

The screenshot shows the 'Create Button' wizard in the Oracle APEX Application Builder, now at the 'Display Properties' step. The breadcrumb trail is 'Home > Application Builder > Application 102 > Page 1 > Create Button'. The 'Display Properties' step is active. The form contains the following fields:

- Page: 1 - Plugin Demonstration
- Region: Sample Interactive Report
- Button Name: P1_GET_XML_FROM_IR
- * Sequence: 10

Below the form is a section labeled 'Items' with a right-pointing arrow. Navigation buttons include 'Cancel', 'Create Button', and 'Next'.

Press “Next”.

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HomeApplication BuilderSQL WorkshopTeam DevelopmentAdministration

Application BuilderApplication 102Page 1Create ButtonPage 1

Button RegionButton PositionButton AttributesDisplay PropertiesAction When ClickedConditional Display

<Cancel

Create ButtonNext >

Page:1 - Plugin Demonstration

Region:Sample Interactive Report

Button Name:P1_GET_XML_FROM_IR

ActionRedirect to Page in this Application

* Page&APP_PAGE_ID.

☐ reset pagination for this page

RequestYOUR_BUTTON_NAME|

Clear Cache(comma separated page numbers)

Set these items(comma separated name list)

With these values(comma separated value list)

Enter **&APP_PAGE_ID.** In field “Page”.
Set “Request” : **name of the button** given on step 1.

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2. Second create “On Load - Before Header” process with type “**Plug-Ins**”.

Home Application Builder SQL Workshop Team Development Administration Search Application

Application Builder Application 102 Page 1 Create Page Process Page 1

Process Type Process Attributes Process Messages Process Conditions

Cancel Next

Page: 1 - Plugin Demonstration

Select the category of the process you wish to create:

- ☐ PL/SQL
- ☐ Reset Pagination
- ☒ Plug-ins
- ☐ Session State
- ☐ Data Manipulation
- ☐ Web Services
- ☐ Form Pagination
- ☐ Send E-Mail
- ☐ Close popup window
- ☐ Run On Demand Process

Select Process Type “**Plug-ins**”.

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Application Builder Application 102 Page 1 Create Page Process Page 1

Process Type Process Attributes Process Messages Process Conditions

Cancel Next

Page: 1 - Plugin Demonstration

Select Plug-in:

- ☒ GPV Interactive Report to XML

Show Unsupported No

Select “**GPV Interactive Report to XML**”.

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Application Builder Application 102 Page 1 Create Page Process Page 1

Process Type Process Attributes Process Messages Process Conditions

Cancel Next

Page: 1 - Plugin Demonstration

* Name GetXMLfromIR Plugin x

* Sequence 10

* Point On Submit - After Computations and Validations

* Type GPV Interactive Report to XML [Plug-in]

Give plugin a name (for example “*GetXMLfromIR Plugin*”).
Select execution “*Point*” : “**On Submit – After Computations and Validations**”

Home Application Builder SQL Workshop Team Development Administration Search Application

Application Builder Application 102 Page 1 Create Page Process Page 1

Process Type Process Attributes Process Messages Process Conditions

Cancel Create Process Next

Page: 1 - Plugin Demonstration

Point: On Submit - After Computations and Validations

Return Data Generated XML-data

Include Page Items Yes

List of Items to Include

Item to Return

* Maximum Rows 1000

> Page Items

Press “**Next**”.

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The screenshot shows the 'Create Page Process' dialog in Oracle APEX. The top navigation bar includes 'Home', 'Application Builder', 'SQL Workshop', 'Team Development', and 'Administration'. The breadcrumb trail is 'Application Builder > Application 102 > Page 1 > Create Page Process'. The dialog has a progress bar with five steps: 'Process Type', 'Process Attributes', 'Process', 'Messages' (current), and 'Process Conditions'. The 'Messages' tab contains a 'Cancel' button, a 'Create Process' button, and a 'Next >' button. A text area explains that success and failure messages are controlled by page templates. Below this, the 'Page' is set to '1 - Plugin Demonstration' and the 'Point' is 'On Submit - After Computations and Validations'. There are two text areas for 'Success Message' and 'Error Message'.

Press “Next”.

The screenshot shows the 'Create Page Process' dialog in Oracle APEX, now on the 'Process Conditions' tab. The progress bar shows 'Process Conditions' as the current step. The 'Create Process' button is now visible. The text area explains that conditions must be met for the process to execute. The 'Page' is '1 - Plugin Demonstration' and the 'Point' is 'On Load - Before Header'. The 'Condition Type' is set to 'Request = Expression 1'. Below this, a list of condition types is shown: '[PL/SQL] [item / column=value] [item / column not null] [item / column null] [request=e1] [page in] [page not in] [exists] [never] [none]'. The 'Expression 1' text area contains 'YOUR_BUTTON_NAME'. At the bottom, there is a 'Page Items' section with a right-pointing arrow.

Set “Condition Type” : “Request = Expression 1”

Set “Expression 1” : name of the button given on step 1.

Press “Create Process”.

Configuration Settings

Return Data

Choose "Generated XML-data" to return result of Interactive Report in XML format.

Choose "Generated SQL-Query (debug only)" to return generated by Interactive Report SQL-Query.

Include Page Items

Include all items that belongs current page with their values in XML. Can be used to display parameters of Interactive Report.

"Item to Return" will be excluded from export.

List of Items to Include

Comma decimeters list of page or application item to be included in XML.

"Item to Return" is automatically excluded from export.

Item to Return

Item where XML-data or SQL-query will be saved. Data greater 32k will be truncated.

When null - result will be downloaded as file. Filesize do not have 32k restriction.

Maximum Rows

Rows grater this value will be not exported.

To export all rows set value of 1000000000.