

APEX Developer Pro Secrets





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[Warum Oracle APEX?](#) [Leistungen](#) [Lösungen](#) [Oracle Forms Ablöse](#) [Über "Wir sind APEX"](#)

WIR SIND APEX ...

... **schnell und effizient** zu Webanwendungen – als Anwender und Entwickler

... für wenig Geld die **Vorteile der Cloud** nutzen

... mit der **Sicherheit** eines der **weltgrößten** Software Anbieter

... die Kompetenz der Spezialisten, denn **Wir sind APEX!**

... **Geniale Ideen** sind meist einfach !

... **Geniale Ideen** sind meist einfach !

APEX Developer Pro Secrets



There are no secrets



Information is available

The screenshot displays the Oracle Application Express interface. At the top, the Oracle logo and 'Application Express' are visible, along with a user welcome message 'Welcome PRAGANITSCH (Logout)'. A navigation menu includes 'Home', 'Application Builder', 'SQL Workshop', 'Team Development', and 'Administration'. A search bar is located on the right. Below the navigation, a breadcrumb trail shows 'Home > Application Builder > Application 127'. The main area is titled 'Application: 127 - Sample Application' and contains several icons for 'Run Application', 'Supporting Objects', 'Shared Components', 'Utilities', and 'Export / Import'. A search bar and 'Actions' dropdown are also present. The central part of the interface features a table listing application pages with columns for Page, Name, Updated, Updated By, Page Type, Group, Lock, and Run. To the right, there are sidebars for 'About' (explaining applications and pages), 'Tasks' (Delete, Copy, Customize), and 'Recently Edited Pages' (listing various application pages).

Page	Name	Updated	Updated By	Page Type	Group	Lock	Run
0	Page Zero	1.4 years ago	sbkenned	Page 0	Unassigned		
1	Sample Application	1.4 years ago	demo	Home	Unassigned		
2	Customers	1.4 years ago	sbkenned	Interactive Report	Unassigned		
3	Products	1.4 years ago	sbkenned	Interactive Report	Unassigned		
4	Orders	1.4 years ago	sbkenned	Interactive Report	Unassigned		
5	Sales by Category / Month	1.4 years ago	demo	Chart	Unassigned		
6	Product Details	1.4 years ago	sbkenned	DML Form	Unassigned		
7	Customer Details	1.4 years ago	sbkenned	DML Form	Unassigned		
8	Manage Users	1.4 years ago	sbkenned	Tabular Form	Unassigned		
9	Reset Password	1.4 years ago	sbkenned	Dynamic Form	Unassigned		

Information is available

The screenshot shows the Oracle Technology Network website. At the top, there is the Oracle logo and a navigation bar with links for Account, Help, Sign Out, United States, Communities, I am a..., and I want to... A search bar labeled 'Secure Search' is also present. Below the navigation bar, there are tabs for Products and Services, Solutions, Downloads, Store, Support, Training, Partners, and About. The main content area is titled 'Oracle Application Express Documentation and Tutorials' and includes a list of documentation items with links to HTML and PDF versions. A sidebar on the left lists various Oracle products, and a sidebar on the right lists popular downloads.

ORACLE Welcome Peter ([Account](#) | [Help](#) | [Sign Out](#)) United States ▾ Communities ▾ I am a... ▾ I want to... ▾ 🔍

Products and Services **Solutions** **Downloads** **Store** **Support** **Training** **Partners** **About** **Oracle Technology Network** ▾

Oracle Technology Network > Developer Tools > Application Express > Documentation

Oracle Application Express
Documentation and Tutorials

Overview Downloads **Documentation** Community Learn More

<input type="checkbox"/> Full Library	HTML	
<input type="checkbox"/> Release Notes	HTML	PDF
<input type="checkbox"/> Installation Guide	HTML	PDF
<input type="checkbox"/> 2 Day + Developer's Guide	HTML	PDF
<input type="checkbox"/> Application Builder User's Guide	HTML	PDF
<input type="checkbox"/> Migration Guide	HTML	PDF
<input type="checkbox"/> Administration Guide	HTML	PDF
<input type="checkbox"/> SQL Workshop Guide	HTML	PDF
<input type="checkbox"/> API Reference	HTML	PDF

For documentation from previous releases please refer to the relevant [Prior Release Archives](#) for specific documentation for that release.

The Advanced Tutorials Guide contains How-Tos for Release 3.2, including:

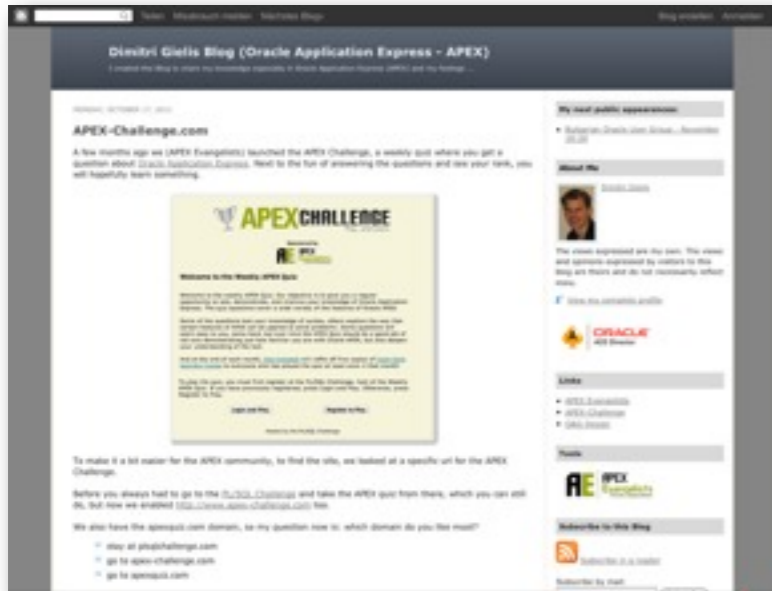
- [Create a Tabular Form](#)
- [Create a Parameterized Report](#)
- [Create a Drill Down Report](#)
- [Control Form Layout](#)
- [Work with Check Boxes](#)

Popular Downloads

- ▾ [Berkeley DB](#)
- ▾ [Enterprise Manager](#)
- ▾ [Database EE and XE](#)
- ▾ [Enterprise Pack for Eclipse](#)
- ▾ [Fusion Middleware](#)
- ▾ [Java EE & GlassFish](#)
- ▾ [Java SE](#)
- ▾ [JDeveloper and ADF](#)
- ▾ [MySQL](#)
- ▾ [NetBeans IDE](#)
- ▾ [Oracle Linux and VM](#)
- ▾ [Pre-built Developer VMs](#)
- ▾ [Solaris 10 & 11 Express](#)
- ▾ [SQL Developer](#)
- ▾ [VM VirtualBox](#)

Left Sidebar: JDeveloper, Application Testing Suite, SQL Developer, SQL Developer Data Modeler, Application Development Framework, Application Express, APEX Listener, Developer Suite, Developer Tools for Visual Studio, Discoverer, Enterprise Pack for Eclipse, JHeadstart, Warehouse Builder, Workshop for WebLogic, XML Developer's Kit, Zend Server, Designer, Forms, Team Productivity Center

Information is available



APEX Challenge.com
A few months ago an APEX Evangelist searched the APEX Challenge, a weekly quiz where you get a question about Oracle Application Express. Read to the full of answering the questions and see your rank, you will hopefully learn something.

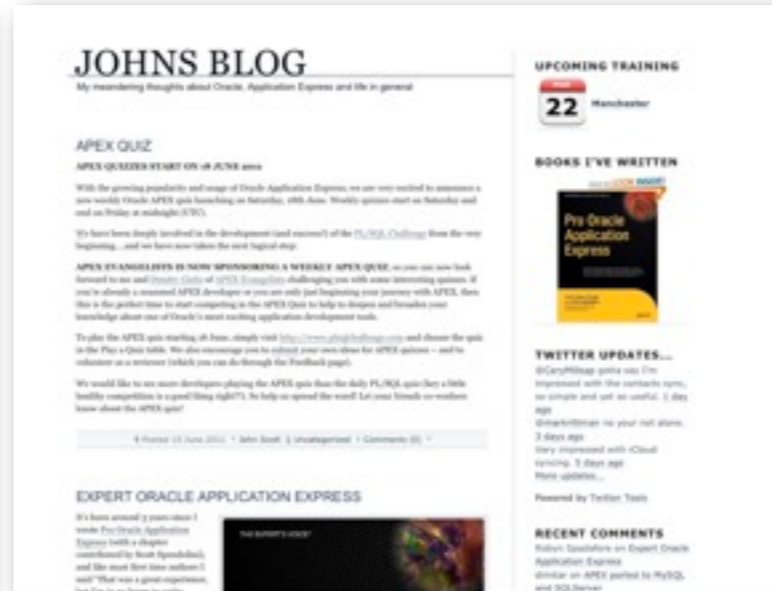
APEx Challenge
Welcome to the Weekly APEx Quiz

To make it a bit easier for the APEX community, to find the site, we looked at a specific url for the APEX Challenge.

Before you always had to go to the URL (123456789) and take the APEX quiz from there, which you can still do, but now we enabled (123456789) and take the APEX quiz from there, which you can still do.

We also have the appext.com domain, so your question now is: which domain do you like most?

- go to appext.com
- go to apexchallenge.com
- go to apex.com



JOHNS BLOG
My wandering thoughts about Oracle, Application Express and life in general

APEX QUIZ
APEX QUIZES START ON 14 JUNE 2011

With the growing popularity and usage of Oracle Application Express, we are now excited to announce a new weekly Oracle APEX quiz launching on Saturday, 18th June. Weekly quizzes start on Saturdays and end on Friday at midnight (UTC).

It's been a long time in the development (and review) of the APEX Challenge from the very beginning... and we have now taken the next logical step.

APEX EVANGELISTS IS NOW SPONSORING A WEEKLY APEX QUIZ, so you can now look forward to see and enjoy a daily APEX Challenge challenging you with more interesting questions. If you're already a seasoned APEX developer or you are only just beginning your journey with APEX, then this is the perfect time to start competing in the APEX Quiz to help to improve and broaden your knowledge about one of Oracle's most exciting application development tools.

To play the APEX quiz starting at 6pm, simply visit <http://www.apexchallenge.com> and choose the quiz in the Quiz table. We also encourage you to submit your own ideas for APEX quizzes - and be submitted as a winner (which you can do through the Feedback page).

We would like to see more developers playing the APEX quiz through the daily FUNDS quiz (they're a little better competition in a general way right?), to help us spread the word! Let your friends and colleagues know about the APEX quiz!

UPCOMING TRAINING
22 Manchester

BOOKS I'VE WRITTEN
The Oracle Application Express

TWITTER UPDATES...
@GarryHogg says I'm impressed with the content, so simple and yet so useful. 1 day ago
@mattkemp says you're not alone. 2 days ago
They're impressed with Cloud version. 3 days ago
More updates...

RECENT COMMENTS
Robert Tomlinson on Expert Oracle Application Express
daniel on APEX joined to MySQL and SQL Server



Inside Oracle APEX by Patrick Wolf

APEX 4.1 - Error Handling Improvements - Part 2
After yesterday's introduction into the new Oracle Handling/Function Callback, I want to continue with another new feature in the error handling area - Error Handling Location for Messages.

APEX 4.1 - Error Handling Improvements - Part 1
The Early Adopter release of Oracle APEX 4.1 contains two new enhancements in the Error Handling area in the next few days, I will highlight those. The first article focuses on Error Handling.

Popular: Last Posted: Categories: Tags



get along with oracle and apex

Oracle APEX Events in Vienna/Austria

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Follow Up to APEX for Mobile Development Workshop

Most Popular

- APEX 4.1, Future
- My Oracle Support for APEX
- Oracle: How to install an APEX 4.1.1 Patch from Java/JSP
- Oracle: How to install an APEX 4.1.1 Patch from Java/JSP
- How to calculate size of a DB table
- Plugin: New Button with redaction
- Create a mobile theme for Oracle



TRIANGLE CIRCLE SQUARE
ORACLE DEVELOPER

Updates to the AUCSOUG Conference schedule

Some of you may have received a mail today from the AUCSOUG conference manager regarding some changes to the schedule for the 2011.

This year we've been lucky in that we haven't had to make many adjustments to the program due to issues like international speakers having time problems. Last week however we had a lot of interesting things to do to fit in the new speakers without creating conflicts.

There haven't been too many adjustments, most of them just different times on the same day - but I have a sense of you are there only once for the year, and often when which day based on particular sessions. You might want to look at the conference program page to check out the latest changes, as of 27th October.

If you haven't looked at the program for a while, you may notice a couple of changes that are a good idea to look at. One of these is a panel discussion titled "Presenting your session to experts - How your user group can improve your session".

Our panel members will be:

- Delvin Luber
- Chris Blair
- Clayton McDonald
- Peter Carlson
- Tim Hall

And Visual Place has kindly accepted to be the blog leader for the day - all in all!

Visual is also talking to Oracle UK to have a representative from Oracle UK at the event.

I'm currently writing out the agenda with Tracy Holliman, who has just started a LinkedIn and Facebook group for the Perth community. He's also started a discussion to accept any questions you might like to put to the panel. If you submit them now, we can better prepare for the day and have a better chance of your questions being answered. We want to make the session as interesting as possible, and the more questions the better.



APEX Freelancer

APEX 4.1 & jQuery Validation Plugin
Posted on October 16, 2011 by Winston

Recently I've started work on a new project in APEX 4.1 and a large element of it is, as part of the project, setting up a new jQuery Validation plugin. I've been using the jQuery Validation plugin for a long time, and it's been a pleasure to work with it. However, I had to find out that the plugin in 4.1 and 4.2 had a problem in APEX 4.1 which meant that on page submit all forms were passing as valid in 4.1 and 4.2, I had to find out that the plugin in 4.1 was working perfectly, so I figured:

There were a couple of bad things that came up when I was looking for a solution, but in the end it was all in APEX 4.1 using 1.9.2 and using v1.7 of the jQuery validation plugin which wasn't a supported combination. The plugin is now updated to v1.8.2 and I'm happy to say that it's now working again!



APEX Blogs

Home Blog Posts Tweets Plugins Links Statistics APEX Usage Knowledge Base

Tweets

Plugins

- Shuttle Extender 11,481
- Super ZIP for Tabular Form 10,481
- Get Multiple Tables 10,481
- Multi-Tabular Tables 10,481
- Reports 2 PDF 10,481
- SQL/PLSQL Model Page 10,481
- Save Tab Form with Procedure 10,481
- Session Log On Status 10,481
- Reports 2 Excel XLS 10,481

In the Picture

APEX 4.1 & jQuery Validation Plugin
Posted on 16/10/2011 10:07 by Winston



Roels Blog

Thursday, October 16, 2011

OOW2011 - Announcing the APEX Marketplace

With the Oracle Database Cloud Service, Oracle also announced the APEX Marketplace - a sort of App Store for APEX or APEx Store if you like. When the Cloud Service is released, there will be a number of free APEX Applications available for instant download. These are all created by Oracle staff and are very similar to the "Packaged Applications" that are available on OTN earlier. So if you're wondering why they're not available up there anymore and where they are gone - you got your answer now!

Just like any other APEX Application you can (probably) still export that application and load it on your own environment. But they will be "locked down" after it's not quite clear what that actually means. Probably to prevent support issues due to your own changes, you aren't allowed to make changes, SQL, not all Marketplace Applications will be available on OTN, some will, others not.

Another, not yet implemented, idea is that you can also upload your own application into the Marketplace. The application will be reviewed by Oracle before it's made available. Your application won't actually be up there, but an interested user will be redirected to your own site and be able to download it from there. And the idea is that you can either provide these applications for free or charge for it. Don't expect it to make you a millionaire, but hey, that should go better for other reasons.

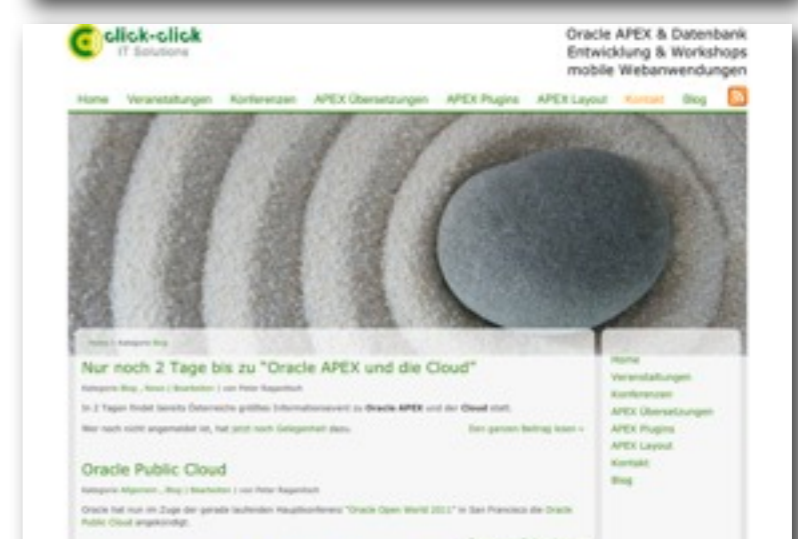
As a bonus a screenshot of the applications that will be available from the start.

Oracle with Real eOffice
Feel free to contact me for any reason (no fee project, audit, advice, etc) by sending an email to roels@realgroup.com.

I'm speaking at...
UK Oracle User Group Conference 2011
16. November 2011 - 16 December 2011

Search This Blog

powered by Google



click-click IT Solutions

Oracle APEX & Datenbank Entwicklung & Workshops mobile Webanwendungen

Home Veranstaltungen Konferenzen APEX Übersetzungen APEX Plugins APEX Layout Kontakt Blog

Nur noch 2 Tage bis zu "Oracle APEX und die Cloud"
Konferenz Blog, News | 2. Oktober | von Peter Reppert
In 2 Tagen findet bereits Österreichs größtes Informationsevent zu Oracle APEX und der Cloud statt. Nur noch zwei Tage bis an, hat sich noch Gelegenheit dazu. Den ganzen Beitrag lesen >>>

Oracle Public Cloud
Konferenz Blog, News | 2. Oktober | von Peter Reppert
Oracle hat nun im Zuge der gerade laufenden Hauptkonferenz "Oracle Open World 2011" in San Francisco die Oracle Public Cloud angekündigt.

Information is available



APEX Developer Pro Secrets



TOP SECRET

**Know who you are
and where you are**

ApexLib_Loginpage.js

ORACLE® Application Express

Enter Application Express workspace and credentials.

click-click IT Solutions

Enter Application Express workspace and credentials.

Workspace

Username

Password

Login

[Click here to learn how to get started](#)

Welcome to the APEX Hosting Instance of click-click IT Solutions.
If you don't have a login please contact the Administrator to get one.

Have a nice day!

Language: Deutsch, English

Workspace

- Reset Password
- Find My Workspace
- Administration

© click-click IT Solutions

TOP SECRET

**Navigate quick
and efficient**

APEX 4.x Search Box



Enter: - Pageld
- Appld:Pageld
- Search-Text

Search

Case sensitive
 Current page only

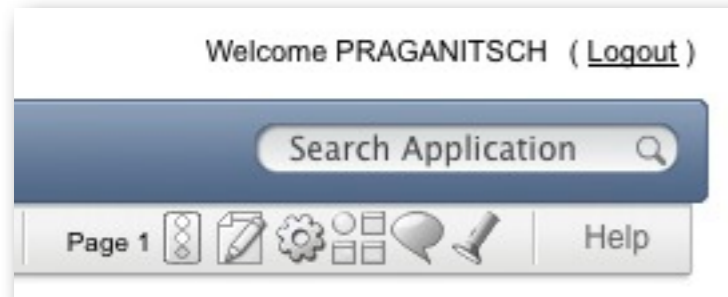
Applications > 25425004 - APEX mobile Demo > Pages > 21 - Product Details > Processes > Delete Image

Attribute	Process Source (Identifies the corresponding process text for the process type)
Value	<pre>-- empty the image update demo_product_info set product_image = null, mimetype = null, filename=null, image_last_update=null where product_id = :P21_PRODUCT_ID;</pre>
	View

Applications > 25425004 - APEX mobile Demo > Pages > 31 - Order > Regions > Order > Page Items > P31_USER_ID

Attribute	Label (Identifies the item label)
Value	Employee
	View

add ApexLib BuilderPlugin



Enter: “?”

Activate by pressing Ctrl+Shift+F

This is a overview of the capabilities of the APEX Search Box
Enter one of the **bold** keywords or any other term to search for.
g .. goes to the desired page, e.g. "g ad" goes to the application definition screen.

General		Shared Components	
?	Search Box Help	g sc	shared components
<page-id>	goes to page	g ad	application definition
<app-id>:<page-id>	goes to page in app	g ai	application item
<any string>	searches for the string	g ap	application process
		g ac	application computation
		g ws	webservice references
Supporting Objects		g bo	build options
g so	Supporting Objects	g tr	translate application
		g tm	text messages
SQL Workshop		g ga	globalization attributes
g qb	Object Browser	g ta	tabs
g qc	SQL Commands	g li	lists
g qs	SQL Scripts	g br	breadcrumbs
g ui	UI Defaults	g nb	navigation bar entries
		g th	themes
		g te	templates
		g lo	List of Values
		g sh	Shortcuts
		g pl	plugins
		g rq	Report Queries
		g rl	Report Layouts

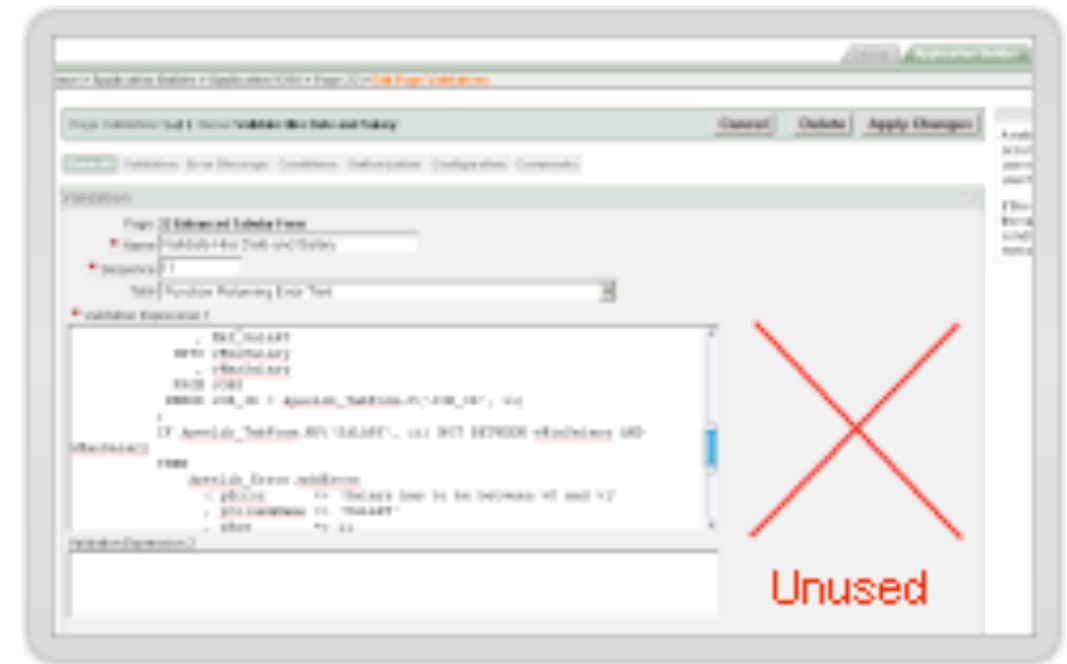
Close

TOP SECRET

Add Superpower

ApexLib BuilderPlugin

- Full Width Textareas
- Height-Adjustable Textarea
incl. Memory !
- Key Bindings - Shortcuts



F10 = Apply Changes

F8 = Run

Ctrl+Shift+E = Edit Page

Ctrl+Shift+S = Shared Components

Ctrl+Shift+F = Search Box

TOP SECRET

Hierarchy

Hierarchy

- Application Groups

Application	Name	Updated	Pages	Group	Type	Run
127	Sample Application	8 seconds ago	23	Sample	Database	
25425004	APEX mobile Demo	3 seconds ago	16	Mobile Demo	Database	
25425005	AOUG AK 2011 Agenda	3 seconds ago	5	Mobile Demo	Database	
25425009	DOAG Konferenz 2011 Agenda	3 seconds ago	7	Mobile Demo	Database	

- Page Groups

Page	Name	Updated	Updated By	Page Type	Group	Lock	Run
0	Page Zero	1.4 years ago	anthony	Page 0	Page Definition		
2	Customers	1.5 years ago	mike	Navigation Form	Deployment		
3	Products	1.4 years ago	sbkenned	Tabular Form	Breadcrumbs		
4	Orders	1.4 years ago	jason	Dynamic Form	Create Master Detail Form		
5	Sales by Category / Month	1.4 years ago	jason	Dynamic Form	Create Master Detail Form		
6	Product Details	1.4 years ago	terri	Tabular Form	Page Definition		

- Page Id's

1 - 9999 General
10000 - 19999 Admin
20000 - 29999 Customer
30000 - 39999 Product

TOP SECRET

Adapt Report View

Adapt Report View

Search: Go Reports 1. RagDefault [Grid/List] Actions

Saved Report = "RagDefault" [Grid] [X]
Group != 'Obsolet' [Filter] [X]

Page	Name	Updated	Updated By	Group	Lock	Run	Authorization Scheme
0	Page 0	17 hours ago	mrathauscher	Öffentlicher Bereich	🔓	🔄	-
1	Was wir tun	11 months ago	praganitsch	Öffentlicher Bereich	🔓	🔄	-
2	News	2.5 years ago	praganitsch	dzt nicht verwendet	🔓	🔄	-

Search: Go Reports 1. ragDefault [Grid/List] Actions

Saved Report = "ragDefault" [Grid] [X]

Sequence	Name	Point
1	ApexLib_getGenericResult	On Demand: Run this application process when requested by a page process.
1	getAutoMedicalComment	On Demand: Run this application process when requested by a page process.
1	getMedicalComment	On Demand: Run this application process when requested by a page process.
1	getPatientreport	On Demand: Run this application process when requested by a page process.

TOP SECRET

**Choose the right
Page View**

Page View - Classic

Page View - New / Tree

The screenshot displays the Oracle APEX page editor interface. At the top, there is a toolbar with a 'Page' dropdown set to '1', a 'Go' button, and navigation arrows. A red box highlights the 'Page View - New / Tree' icon. To the right of the toolbar are buttons for 'Run', 'Utilities', and 'Create'. Further right, status information indicates 'Updated: DEMO, 1.4 years ago', 'To do's: 0', 'Feedback: 0', 'Bugs: 0', and 'Comments: 0'.

The main workspace is divided into three vertical panels:

- Page Rendering:** Shows a hierarchical tree structure of the page. The root is 'Sample Application', which includes sections like 'Before Header', 'After Header', 'Before Regions', 'Regions', 'Body (3)', and 'After Regions'. The 'Body (3)' section is expanded to show three report regions: 'Sales Quota', 'Top Customers', and 'Top Products'. Each report region contains sub-elements like 'Report Columns' and 'Region Buttons'. Below the reports is 'Position 03' containing 'Sample Application' and 'Tasks'. Other sections include 'Before Footer', 'After Footer', and 'Dynamic Actions'.
- Page Processing:** Lists the sequence of processing steps: 'After Submit', 'Validating', 'Processing', 'After Processing', and 'AJAX Callbacks'.
- Shared Components:** Lists reusable components such as 'Parent Tabs', 'List of Values', 'Breadcrumbs', 'Lists', 'Templates', and 'Security'.

Page View - Events

Home > Application Builder > Application 127 > Page 1 > Page Events

Page Show All Show Used

Page Rendering

- Region: *Breadcrumb: Main Menu* Region Position 01 (1,1)
Menu
- Region: *Flash Chart5* Page Template Body (3) (1,10)
Sales Quota
- Region: *HTML Text* Page Template Body (3) (1,11)
Sales Quota
- Region: *SQL Query* Page Template Body (3) (1,20)
Top Customers
SQL: `SELECT b.cust_last_name || ', ' || b.cust_first_na...` ReportsRegion
(10) VIEW_CUSTOMERS Location: Template Create
- Region: *SQL Query* Page Template Body (3) (1,30)
Top Products
SQL: `Select p.product_name||' - '||SUM(oi.quantity)||' ...` ReportsRegion
(20) VIEW_PRODUCTS Location: Template Create
- Region: *SQL Query* Page Template Body (3) (1,40)
Top Orders by Date
SQL: `select o.order_timestamp order_day, SUM(o.or...` ReportsRegion
(30) VIEW_ORDERS Location: Template Create

Page Processing

- No computations
- ✓ No validations
- No processes
- No branches

TOP SECRET

**Know the Syntax
of Substitutions**

APEX Substitutions

:PI_MY_ITEM

- Bind Variable
- use directly in APEX SQL and PL/SQL code
- Works with
 - Page Items - :PI_MY_ITEM
 - Application Items - :G_GLOBAL_ITEM
 - APEX Variables - :APP_USER

APEX Substitutions

&PI_MY_ITEM.

- String Replace -> SQL Injection !
- use everywhere in APEX
- Works with
 - Page Items - &PI_MY_ITEM.
 - Application Items - &G_GLOBAL_ITEM.
 - APEX Variables - &APP_USER.
 - Application Substitutions (App. Definition)

APEX Substitutions

V('PI_MY_ITEM')

- Function returns Session State
- use in Views, Packages, ... within APEX context!
- Works with
 - Page Items - V('PI_MY_ITEM')
 - Application Items - V('G_GLOBAL_ITEM')
 - APEX Variables - V('APP_USER')

APEX Substitutions

#MY_REPORT_COLUMN#

- Substitutes a Report Column
- also used for Placeholders in Templates
- Works with
 - Report Columns
 - Template Placeholders

TOP SECRET

APEX URL Syntax

APEX URL Syntax

http://click-apex.at/apex/f?p=127:29:4391120563331737::NO::P29_ORDER_ID:2

- /pls/apex
- f?p=
- Appld
- PageId
- Session
- Request
- Debug
- ClearCache
- Params
- ParamValues
- PrinterFriendly
- Web Listener
- APEX Main Entrypoint
- Number or Alias of the Application
- Number or Alias of the Page
- unique Session-Id, can be 0 for Public Pages
- Request Keyword
- YES / NO / REMOTE
- RP, Page, Collection, APP, SESSION
- List of (Page) Item Names
- List of Values to be assigned to the Items
- YES/NO

APEX URL Syntax

http://click-apex.at/apex/f?p=127:29:439||2056333|737:::..:&p_trace=YES&p_lang=de

- p_trace
- YES / HPROF / NO
- DB Trace or Profile the APEX Session
- p_lang
- switches to the given language
- p_sep
- separator character used in APEX URL, Default ‘:’

http://click-apex.at/apex/f?p=127@29@439||2056333|737@@&p_sep=@

- use backslash “\” to escape the comma “,” in Parameter Value
[f?p=127:29:439||2056333|737:::PI_ITEM1,PI_ITEM2:\123,45\](http://click-apex.at/apex/f?p=127:29:439||2056333|737:::PI_ITEM1,PI_ITEM2:\123,45\)

TOP SECRET

Static LOV Syntax

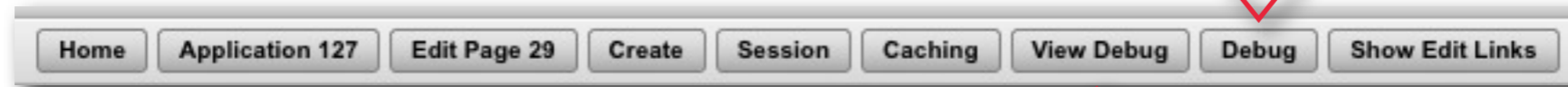
Static LOV Syntax

- `STATIC:Yes;I,No;0`
- `STATIC:CT,VT,RI,NY,NH,ME`
- `STATIC(~,%):Yes%I~No%0`
- `STATIC2:1,2,3,4,5,6,7,8,9,10`
- `STATIC2(/,;):One;I/Two;2/Three;3/Four;4`
- `STATIC2:` is the same as `STATIC:` except the list of values is displayed in the order supplied.

TOP SECRET

Debugging

Debugging



Items Pages Queries Tables PL/SQL Images **Debug** Session Errors

Page View Identifier

Application: 127
Page: 29
Elapsed Time: 0.22224
Maximum Execution Time 0.05789

Elapsed	Execution	Message	Level	Graph
0.02805	0.00429	S H O W: application="127" page="29" workspace="" request="" session="4391120563331737"	4	
0.03225	0.00243	Application 127, Authentication: CUSTOM2, Page Template: 883552719628771100	4	
0.03466	0.00075	...Session ID 4391120563331737 can be used	4	
0.03539	0.00087	...Application session: 4391120563331737, user=DEMO	4	
0.03627	0.00078	...Determine if user "PRAGANITSCH" workspace "13678617174304305" can develop application "127" in workspace "13678617174304305"	4	
0.03703	0.00074	...Check for session expiration:	4	
0.03780	0.00112	Session: Fetch session header information	4	
0.03892	0.00124	SESSION Language (DEMO): wwv_flow.g_browser_language=en maplang=en	4	
0.04016	0.00061	alter session set nls_language="AMERICAN"	4	
0.04075	0.00039	alter session set nls_territory="AMERICA"	4	
0.04109	0.00068	NLS: CSV charset=WE8MSWIN1252	4	
0.04183	0.00032	...NLS: Set Decimal separator="."	4	

Debugging

- add your own messages using the **APEX_DEBUG_MESSAGE** Package

The screenshot displays the APEX Debug tool interface. At the top, there are tabs for 'Items', 'Pages', 'Queries', 'Tables', 'PL/SQL', 'Images', 'Debug', 'Session', and 'Errors'. The 'Debug' tab is active. Below the tabs, there is a 'Page View Identifier' field with the value '621' and a 'Set' button. To the right, there are 'Select Page View Identifier' and 'Reset' buttons. Below this, the application details are shown: 'Application: 127', 'Page: 29', 'Elapsed Time: 0.22224', and 'Maximum Execution Time 0.05789'. A performance graph is visible, showing a bar chart with a prominent peak. Below the graph, there is a search bar with a magnifying glass icon, a 'Go' button, and an 'Actions' dropdown menu. The main part of the interface is a table with the following columns: 'Elapsed', 'Execution', 'Message', 'Level', and 'Graph'. The table contains several rows of execution messages, with the row 'Session: Fetch session header information' highlighted in blue.

Elapsed	Execution	Message	Level	Graph
0.02805	0.00429	S H O W: application="127" page="29" workspace="" request="" session="4391120563331737"	4	
0.03225	0.00243	Application 127, Authentication: CUSTOM2, Page Template: 883552719628771100	4	
0.03466	0.00075	...Session ID 4391120563331737 can be used	4	
0.03539	0.00087	...Application session: 4391120563331737, user=DEMO	4	
0.03627	0.00078	...Determine if user "PRAGANITSCH" workspace "13678617174304305" can develop application "127" in workspace "13678617174304305"	4	
0.03703	0.00074	...Check for session expiration:	4	
0.03780	0.00112	Session: Fetch session header information	4	
0.03892	0.00124	SESSION Language (DEMO): wwv_flow.g_browser_language=en maplang=en	4	
0.04016	0.00061	alter session set nls_language="AMERICAN"	4	
0.04075	0.00039	alter session set nls_territory="AMERICA"	4	
0.04109	0.00068	NLS: CSV charset=WE8MSWIN1252	4	
0.04183	0.00032	...NLS: Set Decimal separator="."	4	

TOP SECRET

**Spy into your
running Session**

Connect to APEX Session

```
SQL Worksheet History
Worksheet Query Builder
1 begin
2   wwv_flow_api.set_security_group_id(
3     p_security_group_id=>apex_util.find_security_group_id('DEMO'));
4   apex_application.g_flow_id := 25425009;
5   apex_application.g_instance := 3427968249812942;
6   apex_application.g_flow_step_id := 40;
7 end;
8 /
9
10 SELECT *
11 FROM APEX_APPLICATION_FILES
12 ;
13
```

Script Output x Query R... x

SQL | All Rows Fetched: 17 in 0.198 seconds

ID	FLOW_ID	NAME	FILENAME
1	13777428746331343	121 F1800487435/item_type_plugin_info_oracleapex_html5_number_field.sql	item_type_plugin_info_oracl
2	14041820092171695	42950 F1562283220/region_type_plugin_com_logica_apex_googlevis_map.sql	region_type_plugin_com_logi
3	14031204546769809	42950 F122702002/region_type_plugin_com_logica_apex_googlevis_barchart.sql	region_type_plugin_com_logi
4	13777014894327310	121 F769717443/item_type_plugin_info_oracleapex_html5_text_field.sql	item_type_plugin_info_oracl
5	14033918594963136	42950 F1926571716/region_type_plugin_com_logica_apex_googlevis_piechart.sql	region_type_plugin_com_logi
6	14415425918912905	25425004 F777157028/f25425004_theme_25425.sql	f25425004_theme_25425.sql

- query all APEX-Views as if inside APEX
- Mostly used for reading APEX_COLLECTIONS

Any Questions?





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