



Specialized
Oracle Database



APEX 5.0

DOAG Mai 2014



APEX 5.0

ORACLE®

Application Express 5.0 Early Adopter 1

A preview of modern database web application development. Take a first look today.

[Request a Workspace](#)

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◆ Tätigkeitsbereiche:

- ▶ Oracle Support
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- ▶ Oracle IT-Consulting & Services, Schwerpunkt auch RAC
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51 verschiedene Schulungen, gerne auch Inhouse)
- ▶ Software-Lösungen
- ▶ Oracle Lizenzen

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Hinweise

- ◆ **Der Vortrag behandelt neue Funktionen der APEX Beta Version 5.0 EA1 vom 13.5.2014**
- ◆ **Es besteht keine Garantie, dass diese Funktionen in der Produktionsversion verfügbar sein werden**
- ◆ **Das APEX Team wird zusätzlich eine zweite Beta Version herausbringen, die jedoch zum Zeitpunkt des Vortrags noch nicht verfügbar war**

Anmeldung am Workspace

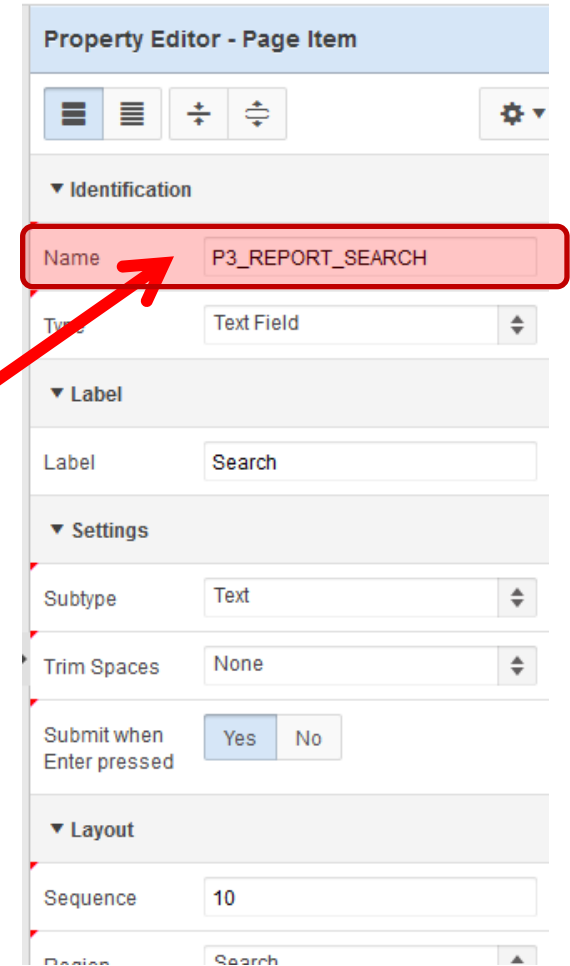
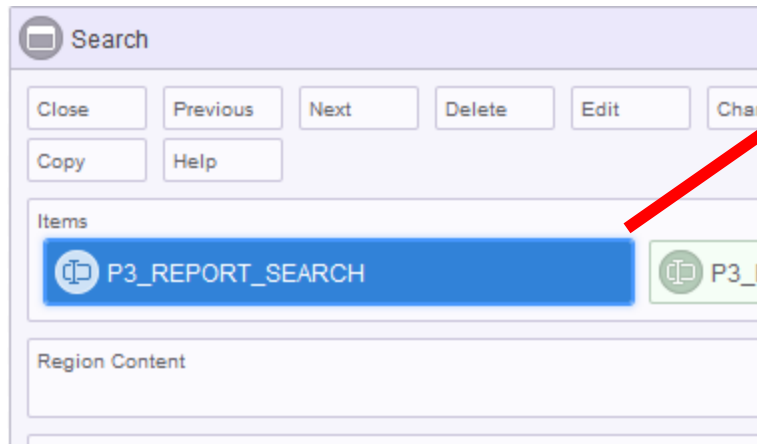
- ◆ **Anforderung eines Workspaces wie in vorherigen Versionen**
- ◆ **Anmeldung am System mit dem (evtl. bereits vorhandenen) Oracle Account**
- ◆ **Es werden die Workspaces angezeigt, die dem Account zugeordnet sind**
- ◆ **Single Sing On (SSO) in den Applikationen funktioniert (noch) nicht. Das Passwort muss zurückgesetzt werden**

Page Designer

The screenshot displays the Oracle APEX Page Designer interface. On the left, a tree view shows the page structure: Rendering, Report 1, Before Header, After Header, Before Regions, Regions, Content Body, Search, Items, P3_REPORT_SEARCH, P3_ROWS, Report 1, Columns, Attributes, After Regions, Before Footer, and After Footer. The main workspace shows a grid layout with a report titled 'Report 1' at the top. Below it are sections for Header, Page Level Tabs, Icon Nav Bar, Breadcrumb, and Content Body. The Content Body contains a 'Search' region with buttons (Close, Previous, Next, Delete, Edit, Change, Create, Create2, Expand, Copy, Help) and an 'Items' region with 'P3_REPORT_SEARCH' and 'P3_ROWS'. Below the search region is a 'Region Content' area with the text 'Right of Interactive Report Search Bar' and a 'Sub Regions' area. At the bottom, a 'Report 1' region is also visible with similar buttons. On the right, the 'Property Editor - Page' panel shows fields for Name (Report 1), Title (Report 1), User Interface (Desktop [Global Page]), Cursor Focus (Do not focus cursor), and Help Text (No help is available for this page). The bottom of the interface features a 'Gallery' with tabs for Messages, Page Search, and Help, and a 'Regions' section with icons for Breadcrumb, Calendar, Chart, Classic Calendar, Classic Report, and Classic Report (based on).

Page Designer

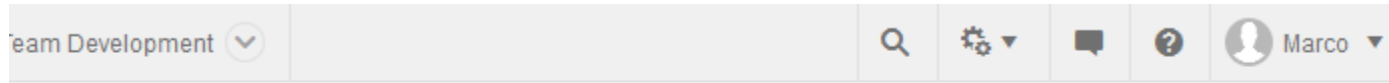
- ◆ Ein Klick auf ein Element im mittleren Fenster, bietet die Möglichkeit, die Eigenschaften dieses Objekts im rechten Fenster zu editieren



Page Designer

- ◆ **Duplizieren oder Löschen von Komponenten über rechte Maustaste**
- ◆ **Mehrere Änderungen an verschiedenen Elemente lassen sich mit Undo Rückgängig machen oder gemeinsam Speichern**
- ◆ **Ändern von mehreren Elementen gleichzeitig – Multi Edit**
- ◆ **Beim Starten einer Application wird diese in einem anderen Browserfenster geöffnet**
- ◆ **Code Completion und Syntax Highlighting für SQL, PL/SQL und JavaScript**
- ◆ **uvm.**

Neue Entwickler Menue Leiste



Page Finder

Current User Interface All Pages

Search

Page Number	Page Name	User Interface
1	Home	Desktop
2	Emp	Desktop
101	Login	Desktop

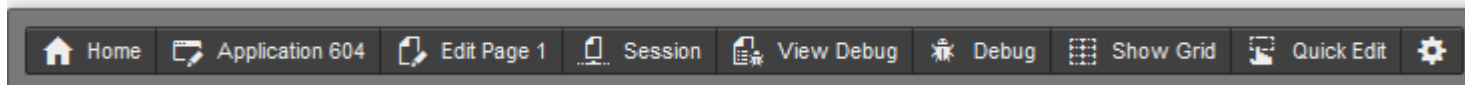
- +
 - ✕
 - ⚙
- Page
 - Page as Copy
 - Shared Components
 - Comment
 - Team Development ▶

- ✕
 - ⚙
 - 👤
- Check
 - Delete
 - Export
 - History
 - Attribute Dictionary
 - Application Utilities
 - Upgrade Application

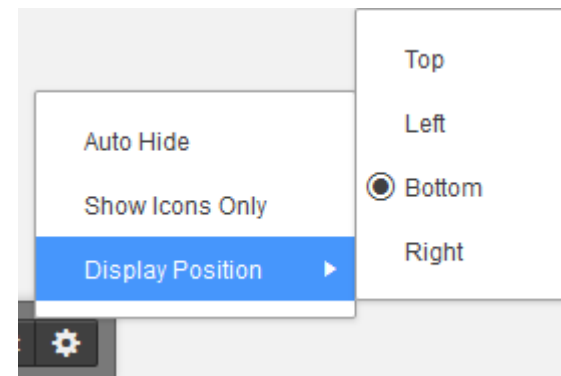
- 👤
 - 💬
 - 👤
 - 📄
- Features (0)
 - To Do's (0)
 - Bugs (0)
 - Feedback Entries (0)
- ⚙
 - 👤
 - 💬
 - 👤
- Group By Component Type
 - Show Labels
 - Show Names
 - Go to Component View
 - Go to Tree View

Neue Entwicklerleiste

- ◆ Die Entwicklerleiste hat eine neue Farbe bekommen:

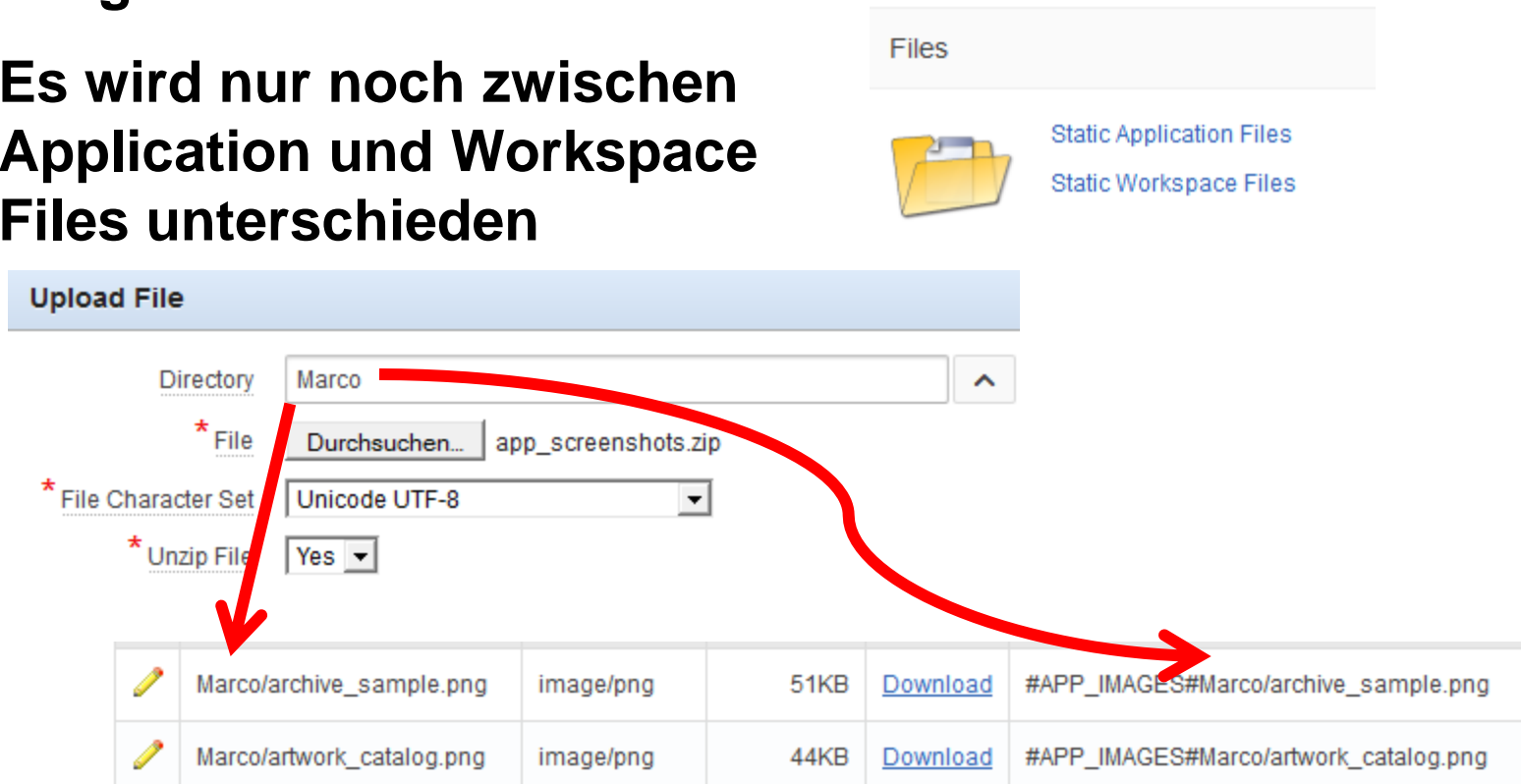


- ◆ Mit dem Zahnrad rechts kann die Position und Darstellung verändert werden



Neuerungen bei Shared Components

- ◆ Es gibt keine Unterscheidung zwischen Static Files, Images und CSS Files
- ◆ Es wird nur noch zwischen Application und Workspace Files unterschieden



The screenshot displays the 'Files' management interface in APEX. It includes a 'Files' header, a folder icon, and two categories: 'Static Application Files' and 'Static Workspace Files'. Below this is an 'Upload File' section with the following fields:

- Directory: Marco
- * File: app_screenshots.zip (with a 'Durchsuchen...' button)
- * File Character Set: Unicode UTF-8
- * Unzip File: Yes

Below the upload section is a table listing files:

	Marco/archive_sample.png	image/png	51KB	Download	#APP_IMAGES#Marco/archive_sample.png
	Marco/artwork_catalog.png	image/png	44KB	Download	#APP_IMAGES#Marco/artwork_catalog.png

Two red arrows highlight the 'Directory' field and the 'Download' link in the table.

Upload von gezippten Verzeichnissen

Cancel Upload Upload and Upload Another

Upload File ^




Directory ^

* File bilder.zip

* File Character Set Unicode UTF-8

* Unzip File Yes ▾

Go

	File Name ^	Mime Type	File Size	File	Reference
	oracle10g.gif	image/gif	1KB	Download	#APP_IMAGES#oracle10g.gif
	oracle11g.gif	image/gif	2KB	Download	#APP_IMAGES#oracle11g.gif
	oracle9i.gif	image/gif	2KB	Download	#APP_IMAGES#oracle9i.gif

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Neue Themes (Typ Tabs und List)

Enter a unique application ID and an application name. Then, select a create option, user interface, database schema and navigation type.

* Application:

* Name:

User Interface: Desktop

Theme: ^

Theme Style: ▾

Select Theme

Show: ▾

ID	Name	Type	Preview
31	Blue Responsive (Navigation List)	List	
26	Productivity Applications	Tabs	

Vergleich von Applikationen

The screenshot displays the APEX 5.0 EA1 user interface. On the left, a 'Tasks' sidebar contains a list of menu items: 'Application Builder Defaults', 'Application Groups', 'Workspace Themes', 'Cross Application Reports', 'Application Express Views', and 'Export'. The 'Cross Application Reports' item is highlighted with a dashed border and a red arrow points to it. The main content area is titled 'Cross Application Reports' and is divided into three sections: 'Application Attributes', 'Application Comparison Reports', and 'Security'. The 'Application Comparison Reports' section is currently active, showing a list of items: 'Application Comparison' and 'Difference Counts by Component'. The 'Security' section shows 'Security Profiles', 'Password Items', and 'Authentication Schemes'.

Cross Application Reports

Application Attributes

- Application Attributes
- Developer Comments
- Developer Comments Calendar
- Build Options
- Build Status and Application Status

Application Comparison Reports

- Application Comparison
- Difference Counts by Component

Security



- Security Profiles
- Password Items
- Authentication Schemes

Vergleich von Applikations

◆ Application Attributes:

<u>Application</u> ^	Name	Updated	Pages	Regions	Items	Buttons	Branches	V
603	Sample Database Application	APEX_PUBLIC_USER	61	130	172	109	34	
604	M.PATZWAHL@MUNIQSOFT.DE 01	M.PATZWAHL@MUNIQSOFT.DE	3	4	3	0	0	
			64	134	175	109	34	

◆ Build Status and Application Status:

	Application	Parsing Schema	Name	Build Status	Application Status
	603	MPATZWAH	Sample Database Application	RUN_AND_BUILD	AVAILABLE_W_EDIT_LINK
	604	MPATZWAH	M.PATZWAHL@MUNIQSOFT.DE 01	RUN_AND_BUILD	AVAILABLE_W_EDIT_LINK

Vergleich von Applikationen

- ◆ Sie können nahezu alle Attribute von zwei Applikationen vergleichen:

🏠 > Cross Application Reports > Application Comparison

Application 1	<input type="text" value="603. Sample Database Application"/>	Component	<input type="text" value="- All Components -"/>
Application 2	<input type="text" value="604. M.PATZW AHL@MUNI QSOFT.DE 01"/>	Show Only Differences	<input type="text" value="Yes"/> <input type="button" value="Set"/>

Component ^	Page	Page Name	Component Name	Application 1	Application 2
Application Attribute	0	-	M.PATZW AHL@MUNI QSOFT.DE 01	-	✓
Application Attribute	0	-	Sample Database Application	✓	-
Application Item	0	-	ENABLE_FEEDBACK	✓	-
Application Item	0	-	FSP_AFTER_LOGIN_URL	✓	-
Application Item	0	-	G_PAGE_INFO	✓	-
Application Item	0	-	LAST_VIEW	✓	-

Neue Export Einstellungen

◆ Original ID beim Export behalten

Export Preferences

Export Supporting Object Definitions	Yes
Export Public Interactive Reports	Yes
Export Private Interactive Reports	No
Export Interactive Report Subscriptions	No
Export Developer Comments	Yes
Export Translations	No
Export with Original IDs	No

Export with Original IDs Help

Specify whether the export file should contain the application component IDs as of now or as of the last import of this application. Available options include:

- **Yes** includes the IDs as of the last import.
- **No** includes the current IDs of the components.

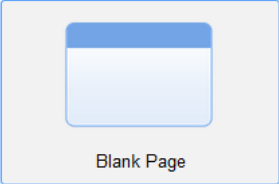

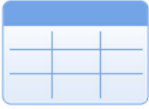












◆ Verbessertes Export Ausgabeformat

Neue Layouts für Seitendesigner

Application: 604 - M.PATZWAHL@MUNIQSOFT.DE 01

* User Interface Desktop

Select a page type:

 Blank Page	 Multiple Blank Pages	 Report	 Form
 Plug-ins	 Chart	 Map	 Tree
 Calendar	 Wizard	 Data Loading	 Feedback Page
 Login Page	 Access Control	 Global Page	

Show Unsupported No

Neue Grafikeinstellungen

◆ Verschiedene Schraffierungen durch Einstellung Hatch Pattern

Chart Settings

Chart Rendering: HTML5 Chart ▾

Chart Type: 3D Column

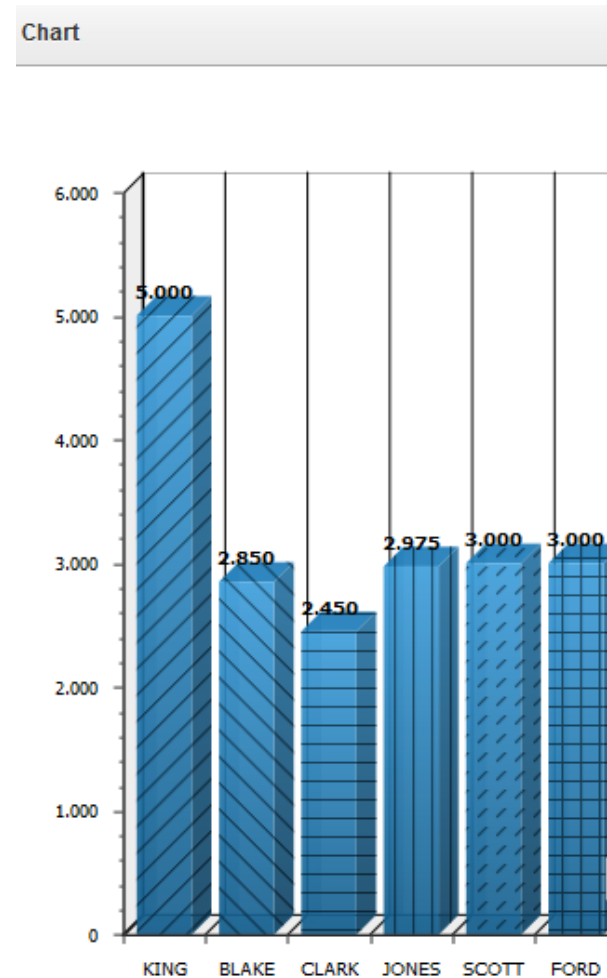
Chart Title: 3d Chart

* Chart Width: 700 * Chart H

Chart Margin: Top: Bottom:

Color Scheme: Look 6 ▾ Set C

Hatch Pattern: Yes ▾



Neuerungen bei Reports

- ◆ Sie können bei der Reporterstellung bereits angeben, ob der Report als PDF ausgegeben werden soll.

The screenshot shows the configuration options for an APEX report. At the top, there are navigation buttons: a back arrow and a 'Cancel' button. Below these are several configuration items:

- Column Heading Sorting**: Yes (dropdown)
- CSV Output**: Yes (dropdown) | **Link Label**: Download (text input)
- Report Printing**: Yes (dropdown) | **Link Label**: PDF (text input) | **Output Format**: PDF (dropdown)
- Enable Search**: Yes (dropdown)

The 'Report Printing' row is highlighted with a red border, indicating the new feature being discussed.

Pivot in interaktiven Reports

Pivot [X]

Pivot Columns
1 Deptno
2 - Select Pivot Column -
[Add Pivot Column](#)

Row Columns
1 Job
2 - Select Row Column -
[Add Row Column](#)

	Functions	Column	Label	Format Mask	Sum
1	Sum	Sal		999G999G999G999G990	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
2	- Select Function -	- Select Column -			<input type="checkbox"/> <input type="checkbox"/>

[Add Function](#)

Cancel Delete Apply

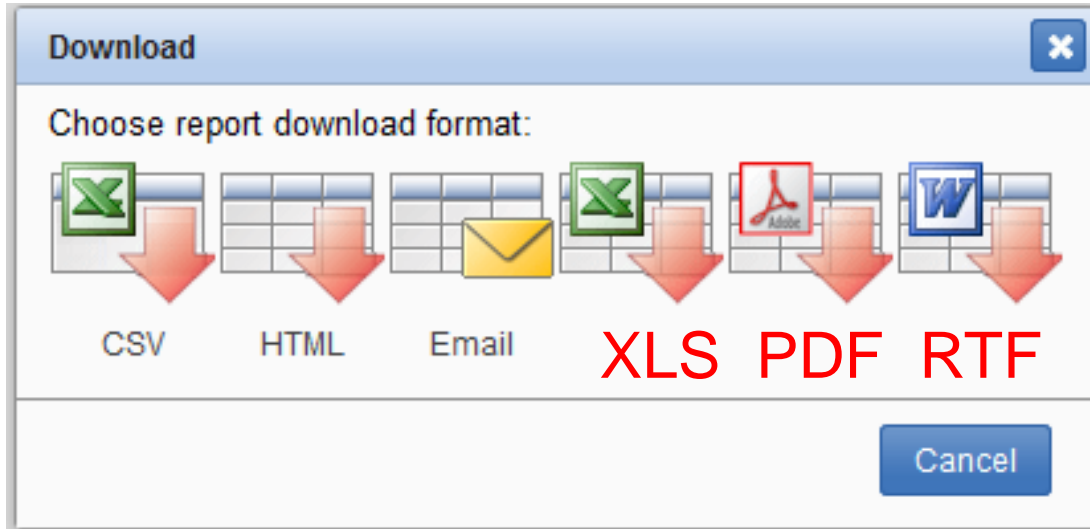
Q- Go [Menu] [Grid] Actions v

[Edit Pivot](#)

Job	10	20	30
	Sum Sal	Sum Sal	Sum Sal
ANALYST	-	6.000	-
CLERK	1.300	1.900	950
MANAGER	2.450	2.975	2.850
PRESIDENT	5.000	-	-
SALESMAN	-	-	5.600
	8.750	10.875	9.400

1 - 5

Neue Downloadformate in iReports



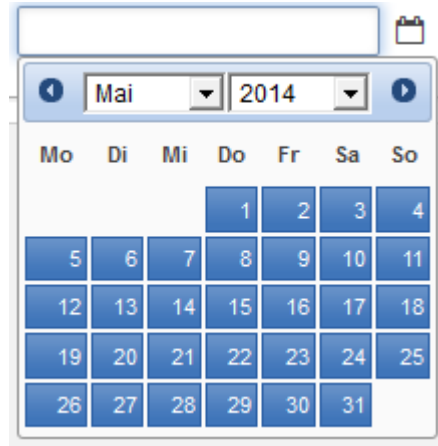
Sub Gruppen

- ◆ **Gruppen können anderen Gruppen zugeordnet werden:**

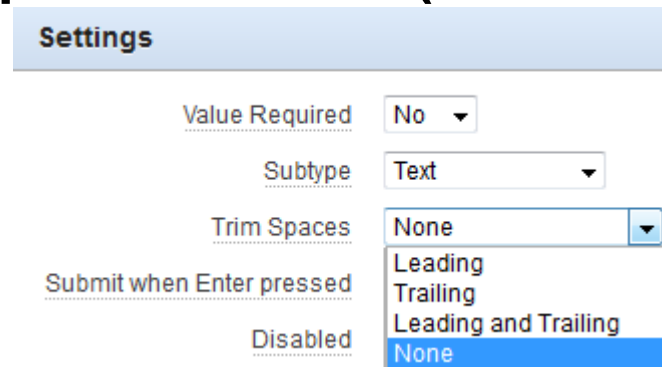
Grantee ^	Granted Group	Grantee Type
Boygroup	SQL Developer	Group

Geänderte Items

◆ Datapicker:



◆ Neue Trim Space Funktion (z.B. bei Textbox Item)



Neuer Application Process

- ◆ Diese Prozess zündet automatisch nach der erstmaligen Anmeldung eines Benutzers.

Cancel

Next >

Application Processes run PL/SQL logic at specific points for each page in an application or as defined by the conditions under which they are set to fire. Note that "On Demand" processes fire only when called from specific pages.

Application: 604 M.PATZWAHL@MUNIQSOFT.DE 01

* Name after_authent

* Sequence 1

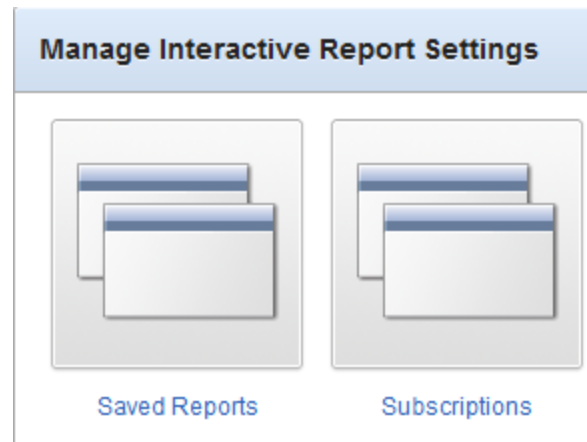
* Point After Authentication

Type PL/SQL Anonymous Block

"On Demand" processes should be declared at the page level whenever possible.

Zentrale Verwaltung der iReport Settings

- ◆ Im Bereich Administration/Tasks(rechts) erreichen Sie einen neuen Punkt: **Manage Interactive Report Settings**



Tasks
About Application Express
Manage User Groups
Create User
Create Multiple Users
Delete Multiple Users
Manage Interactive Report Settings

Zentrale Verwaltung der iReport Settings

Database Application Reports Worksheet Application Reports

Cancel Reset **Delete Checked**

Q- Go Actions ▾

<input type="checkbox"/>	<u>Application</u> ^	Page	Region Name	Report Type	Report Name	Report Alias	Owner
	603	2	Customers	Primary Default	Primary Report	4961411	
	603	3	Products	Primary Default	Primary Report	4870199	
<input type="checkbox"/>	603	4	Orders	Alternative Default	Monthly Review	8290268	
	603	4	Orders	Primary Default	Primary Report	order_primary	

Modale Fenster

- ◆ In den Seiten-Eigenschaften kann das Fenster auf Modal gesetzt werden
- ◆ Im Bereich Dialog können dann die Parameter für das modale Fenster verwendet werden

Display Attributes

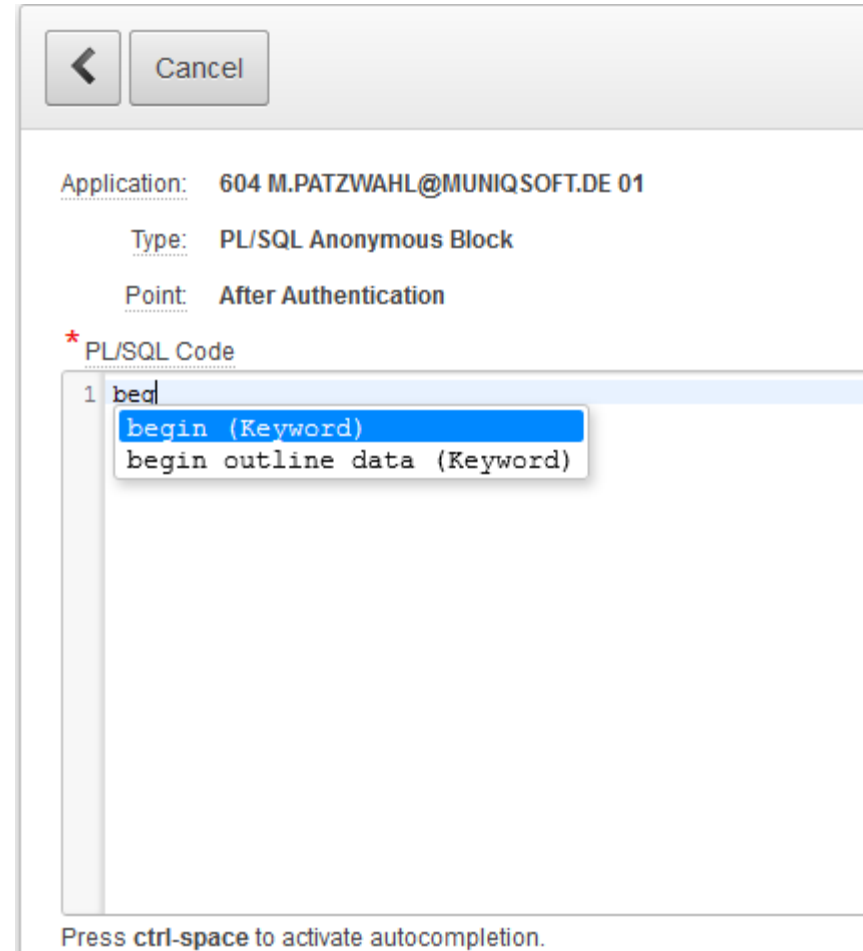
Title	Report 1
User Interface	Desktop
Page Mode	Normal
Page Template	Default
Navigation List Override	

Dialog

Height	200
Width	300
Maximum Width	400
Attributes	
CSS Classes	

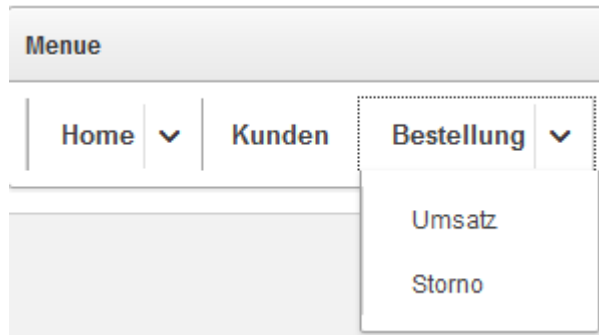
Autocompletion in Code Blöcken

- ◆ Innerhalb eines Code Blocks kann mit der Taste Ctrl-Space eine Codevervollständigung aktiviert werden:



Neue Navigations Menues

- ◆ Sie können nun ein neues Format für Pull Down Menues als Listenelemente verwenden (alter Name Pull Down Menue und Pull Down Menu with Image, neuer Name: Menuebar)



Neue Sicherheitsfunktion

- ◆ Im Bereich Edit Application Properties / Security sind zwei neue Optionen hinzugekommen:

Session State Protection

Enabling Session State Protection can prevent hackers from tampering with

To enable Session State Protection for your application, select **Enabled** from

Session State Protection

Allow URLs Created After

Bookmark Hash Function

Expire Bookmarks

Instance Default
SHA-1
SHA-2, 256 bit (requires 12c)
SHA-2, 384 bit (requires 12c)
SHA-2, 512 bit (requires 12c)
MD5 (legacy)

Damit können Bookmark URLs mit einer Prüfsumme versehen werden.

Statement of Direction (März 2014)

APEX 5.1

- ◆ Neuer Multi-Row Edit Region Typ – Region types mit modernem UI zum Ändern von mehreren Zeilen und der Möglichkeit mehrere dieser Regionen auf einer Seite darzustellen
- ◆ Master / Detail / Detail – Neues Wizard Interface für Master/Detail/Detail Regionen.
- ◆ Tablet User Interface - Verbesserte Themes und templates für Tablets.

Statement of Direction (März 2014)

APEX 5.1

- ◆ Web Services Support – In Kombination mit dem Oracle REST Data Services (bekannt auch als APEX Listener) erweitern die Web Services Integrationsmöglichkeiten.
- ◆ PDF Drucken– Verbesserte Printing Möglichkeiten unter Verwendung des Oracle REST Data Services FOP Supports.
- ◆ Packaged Applications - Verbessertes Framework und Erweiterungen für Packaged Applikationen.

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