

APEX vs ADF



- Co-founder of Apex Evangelists
- Used Oracle since version 7
- Worked for Oracle as a Consultant for 4 Years
- OCP 8i/9i/10g
- Creator of the 'famous' World Cup 2006 Application
- 'Dimitri.Gielis@AE' in the Application Express forums
- Vice President of the APEX SIG
- Presenter at IOUG, ODTUG, OOW, UKOUG, ...

Apex Evangelists
Oracle Specialists

ORACLE

The screenshot displays the 'First Round' of the FIFA World Cup 2006 application. It includes a table of matches and a detailed view of Group A. The Group A table shows the following data:

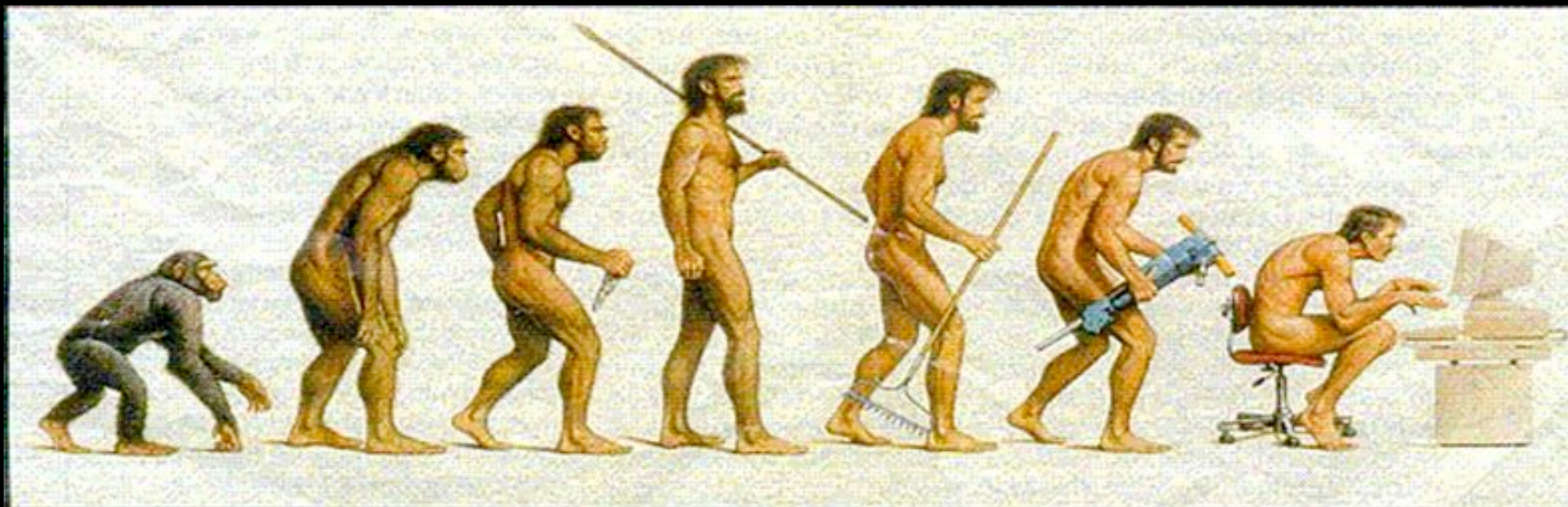
Country	W	D	L	GF	GA	PTS
Costa Rica	0	0	0	0	0	0
Costa Rica	0	0	0	0	0	0
Costa Rica	0	0	0	0	0	0
Costa Rica	0	0	0	0	0	0
Costa Rica	0	0	0	0	0	0

IOUG
independent oracle users group

Application Express

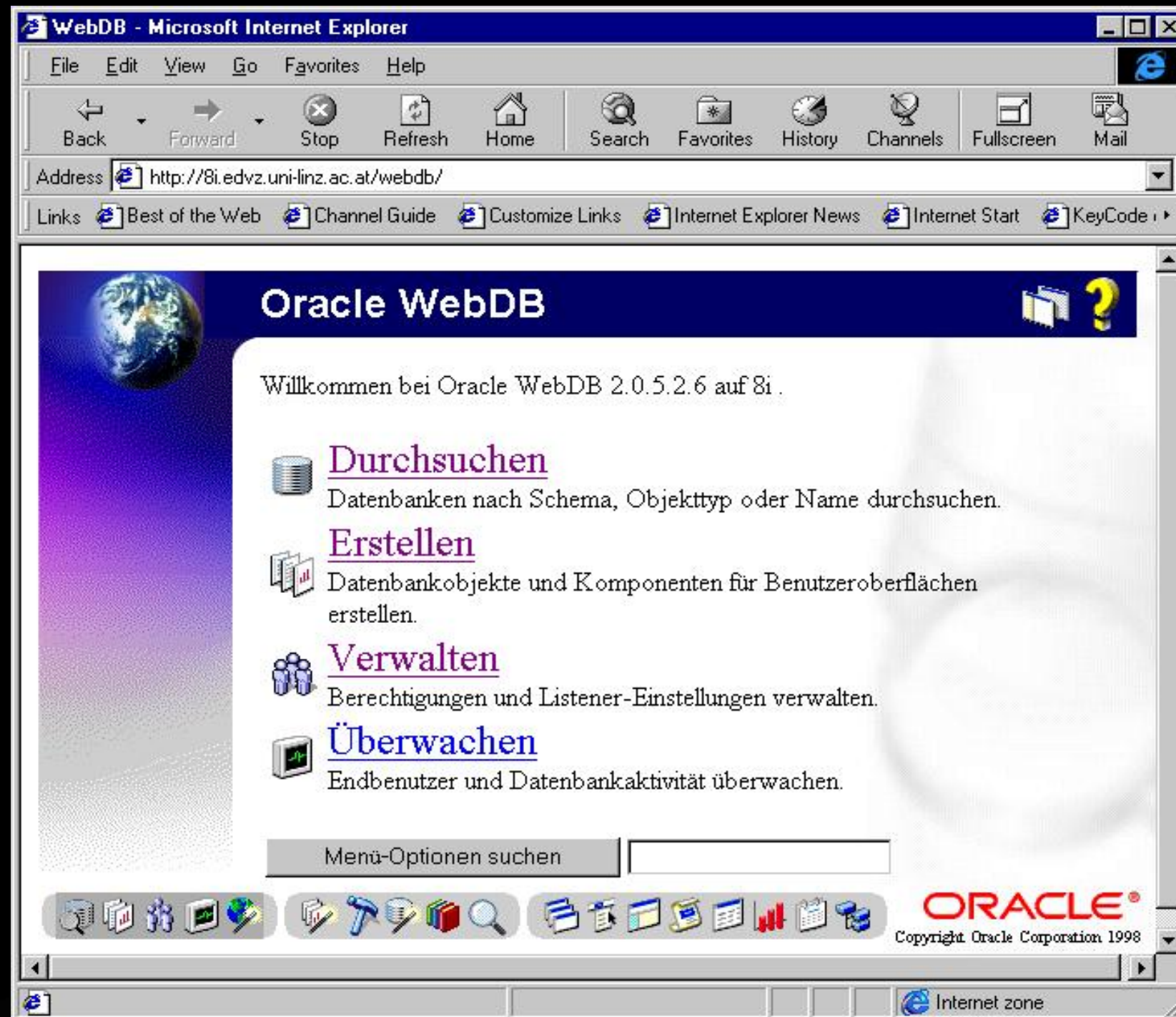
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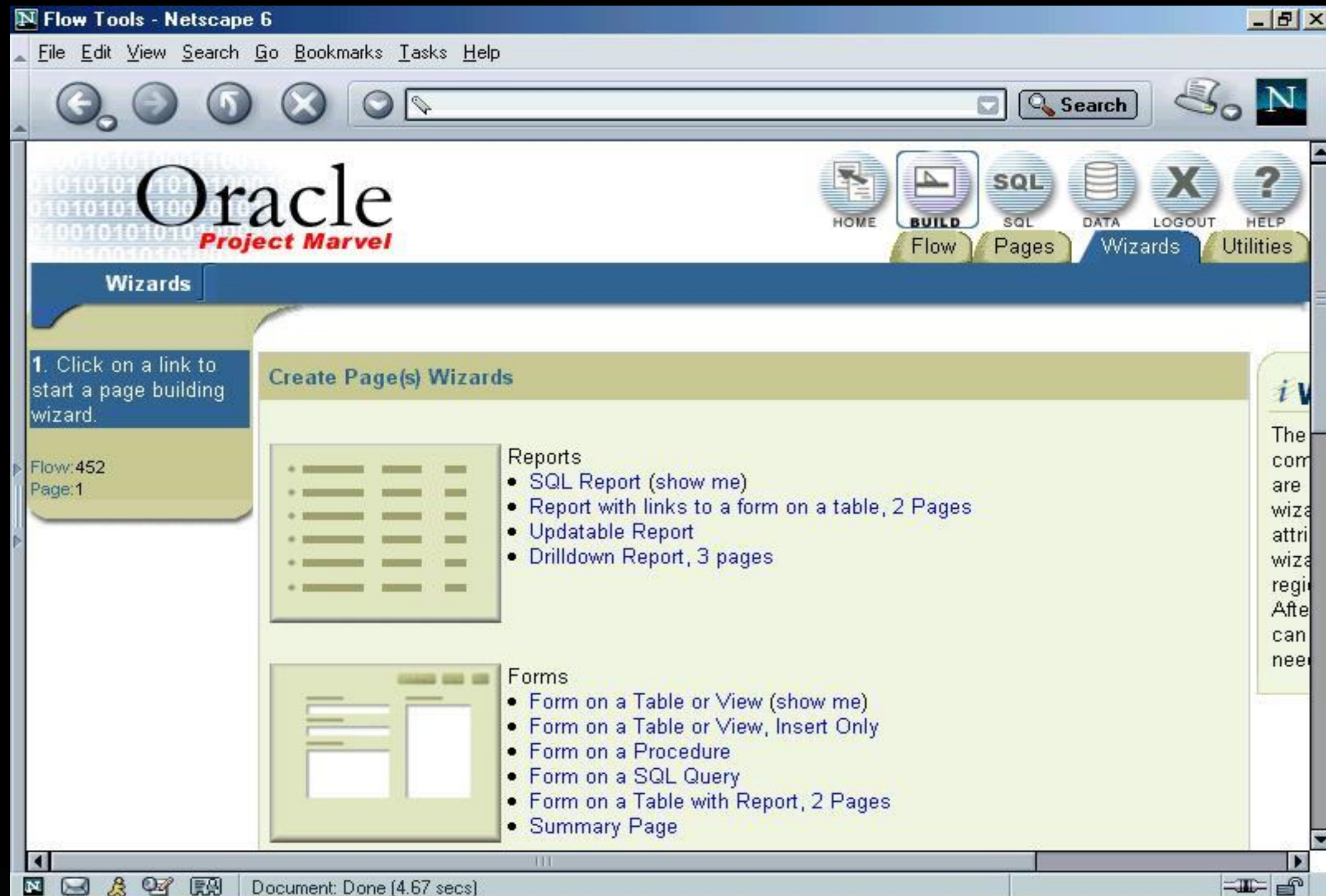
History



Somewhere, something went terribly wrong

History (Pre HTMLDB / APEX)





Welcome to HTML DB

With HTML DB you can build database-centric HTML Web applications. Use the Builder to construct pages that will constitute your application. Use the SQL Workshop and the Data Workshop to run SQL and add data.



Application Builder



SQL Workshop



Data Workshop



Administration

Development

HTML DB is an online development environment that enables developers to build applications using a Web browser.

Tasks

- [Review Demonstration Applications](#)
- [Manage Developers](#)
- [Monitor Activity](#)



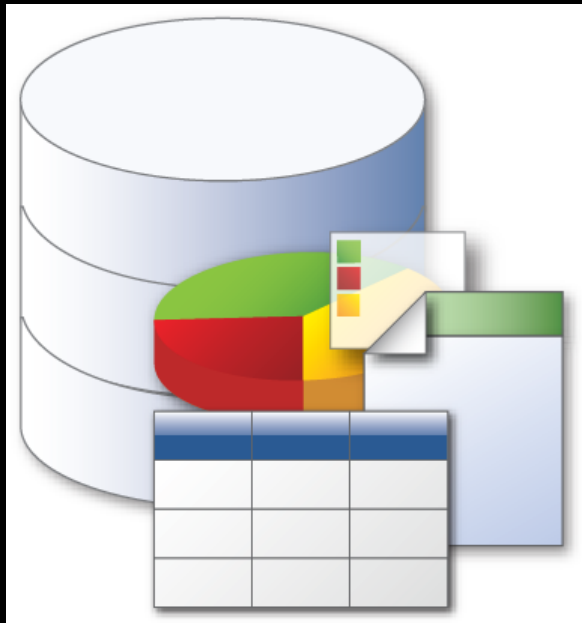
Application Express

-

Introduction

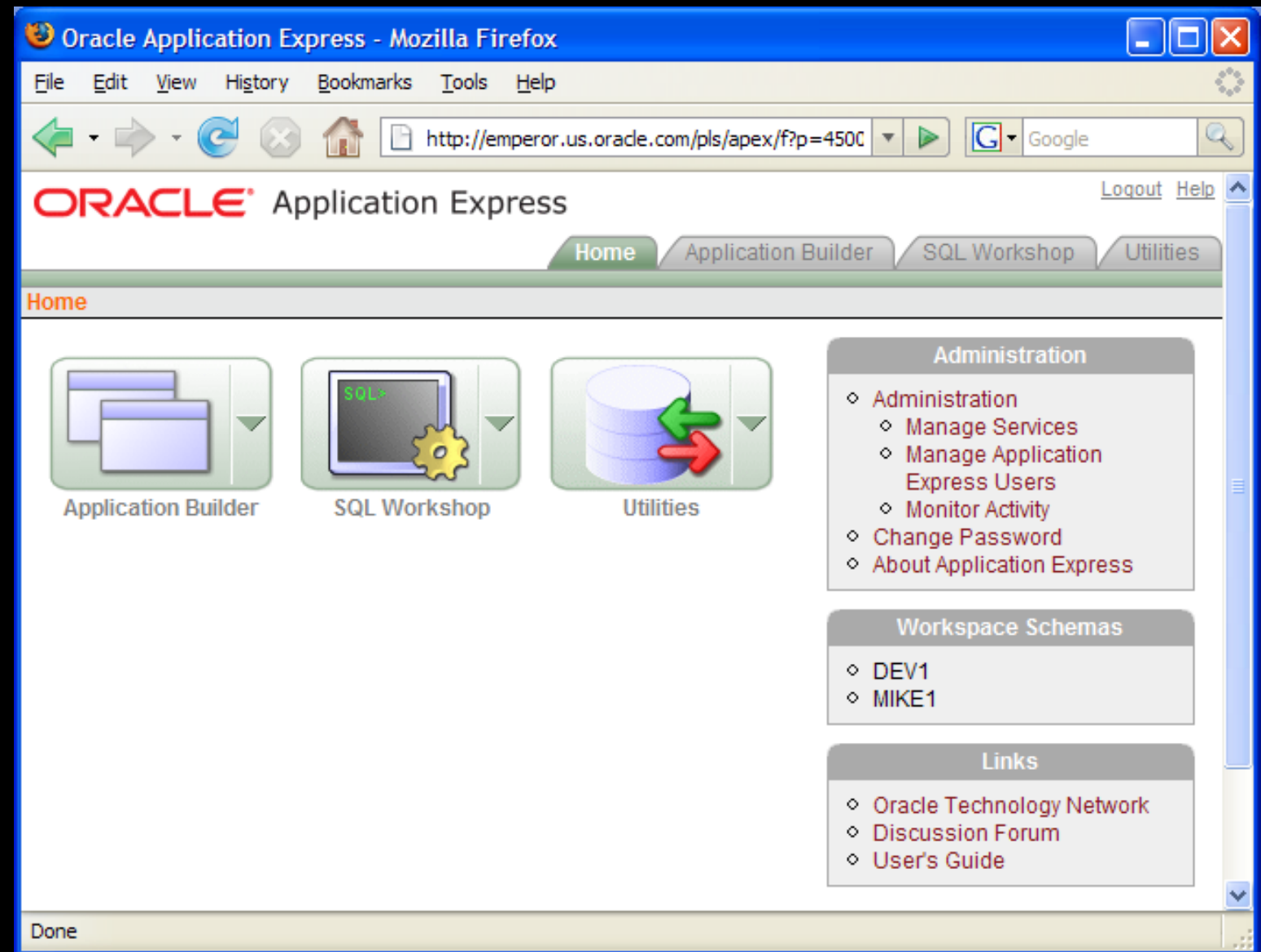


Application Express



- Is a unique Mass Market Web Application Development tool for the Oracle Database
- Fills void between Access and Java
- SQL Centric
- No Cost DB Feature of 9i, 10g, 11g
- Declarative Database Centric Web Application Development Tool

- Browser Based Application Development Tool
- No Client Software to Develop, Deploy, or Run Applications
- Full Service: Application Building, SQL Workshop, Utilities

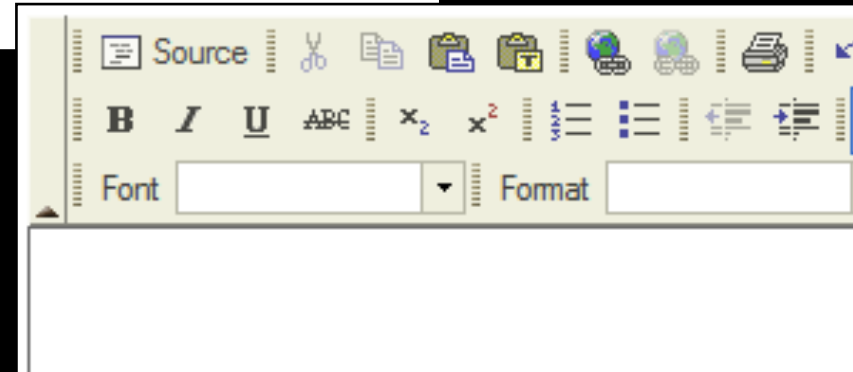
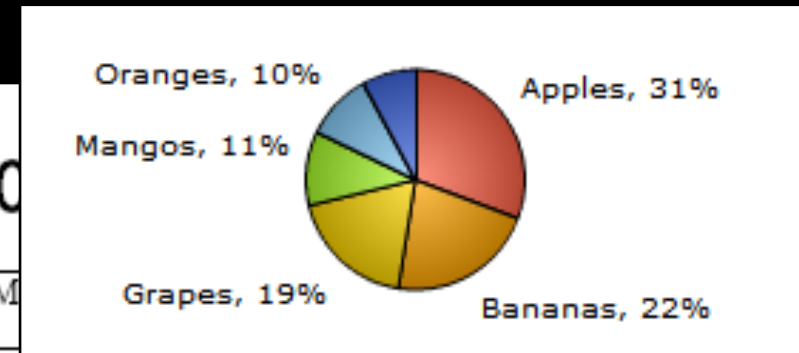


Web Application Development

- Forms
- Reporting
- Charting
- Calendars

FORM **W-2** Wage and Tax Statement 20

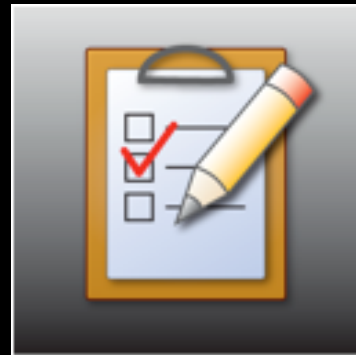
a Control number		OM
b Employer's identification number	1545-0008	
c Employer's name, address, and ZIP code	Shipping	



Search: Display 15 Go

	Customer Id	Cust First Name	Cust Last Name
	1	John	Dulles
	2	William	Hartsfield
	3	Edward	Logan
	4	Edward "Butch"	OHare

Worksheet
 Select Columns
 Filter
 Sort Filter
 Highlight



- Tactical Intranet Applications
- Interactive Internet Applications
- Data Collection
- Data Reporting

Empower departments to create their own applications

Fill in gaps in commercial off the shelf software

Headlines for Dimitri Gielis

[Edit Page](#)

News & Notes

Article	Last Updated	Status
Welcome Bharosa Customers - Start Here	14-DEC-2007	Updated
Oracle Support Announces RDA 4.10 - Production Release	11-DEC-2007	Updated
Now Available: Software Configuration Manager (formerly known as Configuration Support Manager)	11-DEC-2007	Updated
New Customers Start Here - Information Now Available for Anyone New to MetaLink or Oracle Support	10-DEC-2007	Updated
Advisor Webcasts: Support Tools and Processes - Register for Free Web Seminars	10-DEC-2007	Updated
Attend the Advanced MetaLink Seminar: January 16, 2008	10-DEC-2007	Updated
Oracle Announces Maintenance Wizard Version 2.07 for the eBusiness Suite Upgrade to Release 12	18-NOV-2007	Updated
Software Configuration Manager - Configuration Change Schedule	13-NOV-2007	Updated
Oracle Critical Patch Update - October 2007	17-OCT-2007	Updated

Technical Forums

[Top](#)[Edit](#)

Forum Name	Subject	Last Updated	Status
Preferences not yet defined.			

Certify and Availability

[Top](#)[Edit](#)

Doc ID	Article	Platform	Product	Last Updated	Status
Preferences not yet defined.					

Ask Tom Home - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address <http://asktom.oracle.com/pls/ask/f?p=4950:1:> Go

ask Tom ORACLE.COM Home

Other Resources [Recent] Archives Adv. Search Links I Like Popular Hot Your Questions Files RSS Feed

Search Go

times are East coast times (GMT-04:00)
In the last 4 weeks, I've taken 119 new questions, read 1,118 followups, and responded to 845 of the followups

Hit	Subject	Last Updated	First Asked	Age
1	SQL Query	17 Oct 2006 4pm	17 Mar 2002 2pm	4.6 years old
2	use of intermedia	17 Oct 2006 4pm	14 Aug 2002 3pm	4.2 years old
3	Design pitfalls that constrict applications from scaling	17 Oct 2006 3pm	17 Oct 2006 12pm	5 hours old
4	CURSOR	17 Oct 2006 3pm	17 Jan 2001 5pm	5.8 years old
5	analytical vs aggregate functions	17 Oct 2006 3pm	17 Oct 2006 12pm	5 hours old
6	How to check number of processed blocks	17 Oct 2006 3pm	17 Oct 2006 12pm	5 hours old
7	Can Materialized Views be used successfully in a Rule Based Optimizer?	17 Oct 2006 1pm	17 Oct 2006 12pm	5 hours old
8	UNDO RETENTION	17 Oct 2006 1pm	05 Feb 2003 2pm	3.7 years old
9	PCT Free and PCT Used	17 Oct 2006 1pm	09 Jan 2006 3pm	9 months old
10	FLASHBACK_TRANSACTION_QUERY	17 Oct 2006 1pm	17 Oct 2006 11am	6 hours old

1 - 10 [Next](#) ➤

Messages...

- If you'd like to read something from me in a different style**, just go to [my blog](#) and give me feedback. I tend to post 5 or 6 times a week on average on various topics both technical and "not".
- SQL Developer is now production!** (the tool formerly known as "project raptor") and yes *it is absolutely free*; click [here](#) to download it and check it out

Status

Sorry I have a large backlog right now, please ask a question later

See the "other resources" tab above and to the left for recommendations of places to go to get answers to questions!

Expert Oracle
Oracle Database 10g
Expert Oracle

it is shipping now.
Before you buy, make sure to see the discussions we've had about it. The discussions are [here](#), [here](#), and [here](#).

Effective Oracle by Design

ODTUG - Microsoft Internet Explorer

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Address <http://www.odtug.com/pls/htmldb/f?p=500:1:4312281682964894313> Go



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Search this Site: SEARCH

Home About ODTUG Events Community Resources Vendors Technical S

VENDOR DIRECTORY BECOME A VOLUNTEER JOIN AN EMAIL LIST TECHNICAL JOURNAL MEMBER BENEFITS

SPECIAL INTEREST GROUPS

About SIGs

Application Express (formerly HTML DB)	BI/DW
Development DBA	Fusion Java Development
J2EE/Java	Methodology and Management
Middleware	Oracle Designer
Oracle Developer Suite	PL/SQL
Web Development	



VENDOR OPPORTUNITIES

Advertise with ODTUG and Reach Developers! [Download the Media Kit here!](#)

ODTUG CONTACT INFO

ODTUG Announces Dates and Locations of Kaleidoscope 2007

WOW – Wide Open World, Wide Open Web!

June 18 – 21, 2007
Pre-conference Hands-on Training – June 16 – 17
Hilton Daytona Beach Oceanfront Resort
Daytona Beach, Florida

No longer is the Operating System the key decision; no longer is the hardware the key decision; **today about the WEB!** ODTUG Kaleidoscope 2007 will truly be a conference of technology as we celebrate the the old enabling the best new and emerging technologies. Look for the latest information on:

- Service Oriented Architecture
- Development Tools
- Business Intelligence/Data Warehousing
- Development DBA
- Methodology
- Professional Development

For more information visit www.odtugkaleidoscope.com

ODTUG Nominees for 2007 Board of Directors

It's time to vote! Please read the [campaign statements and biographical sketches](#) of the nominee click [here](#) to open the ballot. All members should receive this ballot and corresponding information via the postal service.

J2EE SIG Renamed to Fusion Java Development SIG

The J2EE SIG that is jointly sponsored by ODTUG, IOUG, OAUG, and Oracle has been renamed The Fusion Development SIG. Click [here](#) to view the web site. The ODTUG J2EE SIG remains the same. You can reach the ODTUG SIG pages from the top box at the left hand side of this page.

Football Matches - Result - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address http://www.dgtournament.com/pls/apexutf/f?p=103:11:1764800346824625::NO::TDG_AI_TOURNAMENT_COLOR,TDG_AI_TOURNAMENT_BCOLOR,TDG_AI_TOURN Go



Soccer • Football • Hockey • Basketball • Tennis • Baseball • Cycling • Cricket • Golf

UEFA Champions League 2006-2007

Home Results Bet Ran

First Round

Local Time ▲				G
12-SEP-2006 20:45	Barcelona	5 - 0	Levski	A
12-SEP-2006 20:45	Chelsea	2 - 0	Bremen	A
12-SEP-2006 20:45	Sporting	1 - 0	Internazionale	B
12-SEP-2006 20:45	Bayern	4 - 0	Spartak Moskva	B
12-SEP-2006 20:45	Galatasaray	0 - 0	Bordeaux	C
12-SEP-2006 20:45	Roma	4 - 0	Shakhtar	D
12-SEP-2006 20:45	Olympiacos	2 - 4	Valencia	D
12-SEP-2006 20:45	PSV	0 - 0	Liverpool	C
13-SEP-2006 20:45	Dynamo Kyiv	1 - 4	Steaua	E
13-SEP-2006 20:45	Porto	0 - 0	CSKA Moskva	G
13-SEP-2006 20:45	Man. United	3 - 2	Celtic	F
13-SEP-2006 20:45	Anderlecht	1 - 1	Lille	H
13-SEP-2006 20:45	Milan	3 - 0	AEK	H
13-SEP-2006 20:45	Hamburg	1 - 2	Arsenal	G
13-SEP-2006 20:45	København	0 - 0	Benfica	F
13-SEP-2006 20:45	Lyon	2 - 0	Real Madrid	E
26-SEP-2006 18:30	CSKA Moskva	1 - 0	Hamburg	G
26-SEP-2006 20:45	Real Madrid	5 - 1	Dynamo Kyiv	E
26-SEP-2006 20:45	Arsenal	2 - 0	Porto	G
26-SEP-2006 20:45	Steaua	0 - 3	Lyon	E

Group A

		P	W	L	T	S	A	D	F
	Chelsea	2	2	0	0	5	1	4	6
	Barcelona	2	1	0	1	6	1	5	4
	Bremen	2	0	1	1	1	3	-2	1
	Levski	2	0	2	0	1	8	-7	0

Group B

		P	W	L	T	S	A	D	F
	Bayern	2	2	0	0	6	0	6	6
	Sporting	2	1	0	1	2	1	1	4
	Spartak Moskva	2	0	1	1	1	5	-4	1
	Internazionale	2	0	2	0	0	3	-3	0

Group C

		P	W	L	T	S	A	D	F
	Liverpool	2	1	0	1	3	2	1	4
	PSV	2	1	0	1	1	0	1	4
	Galatasaray	2	0	1	1	2	3	-1	1
	Bordeaux	2	0	1	1	0	1	-1	1

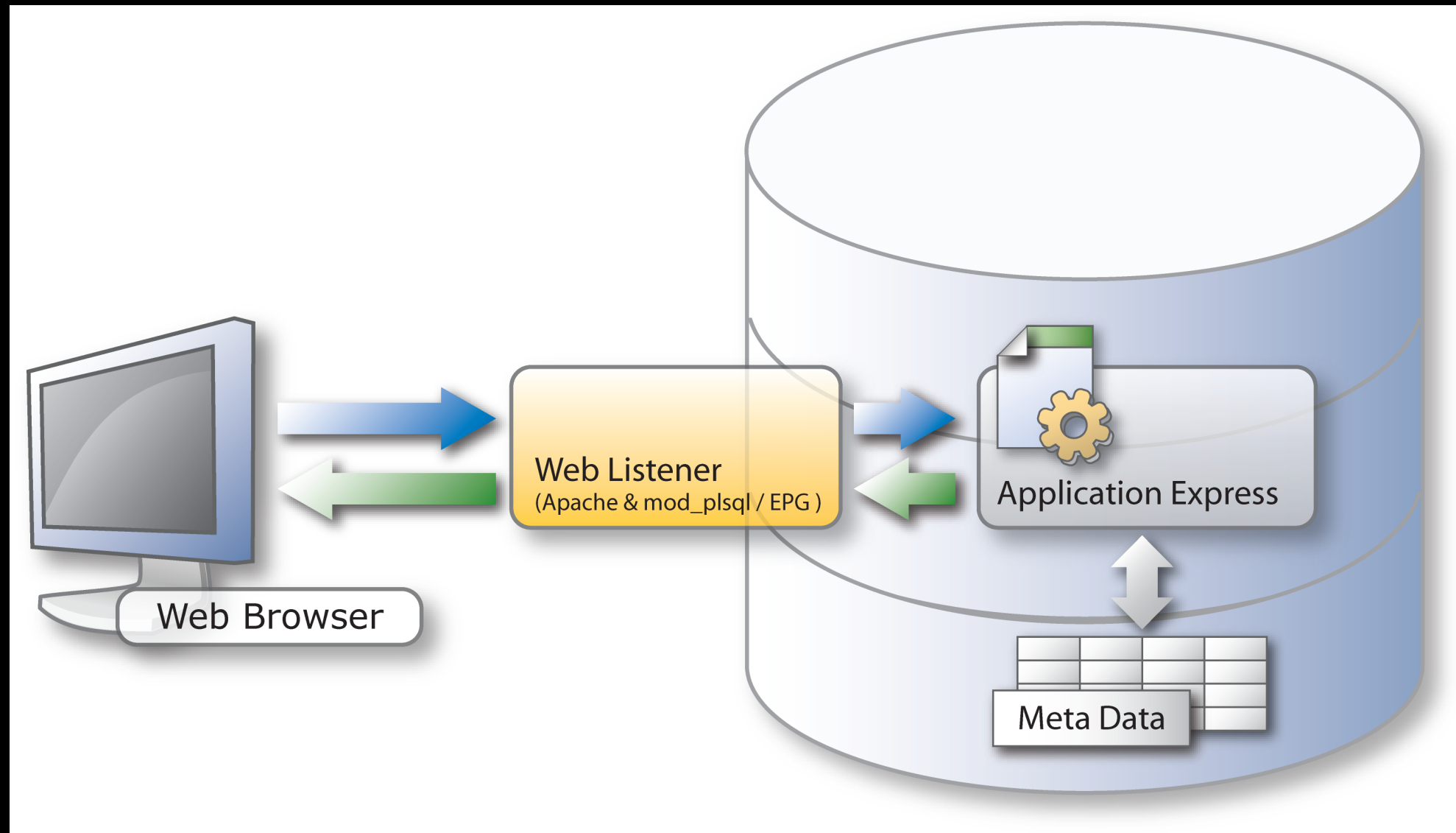
Application Express

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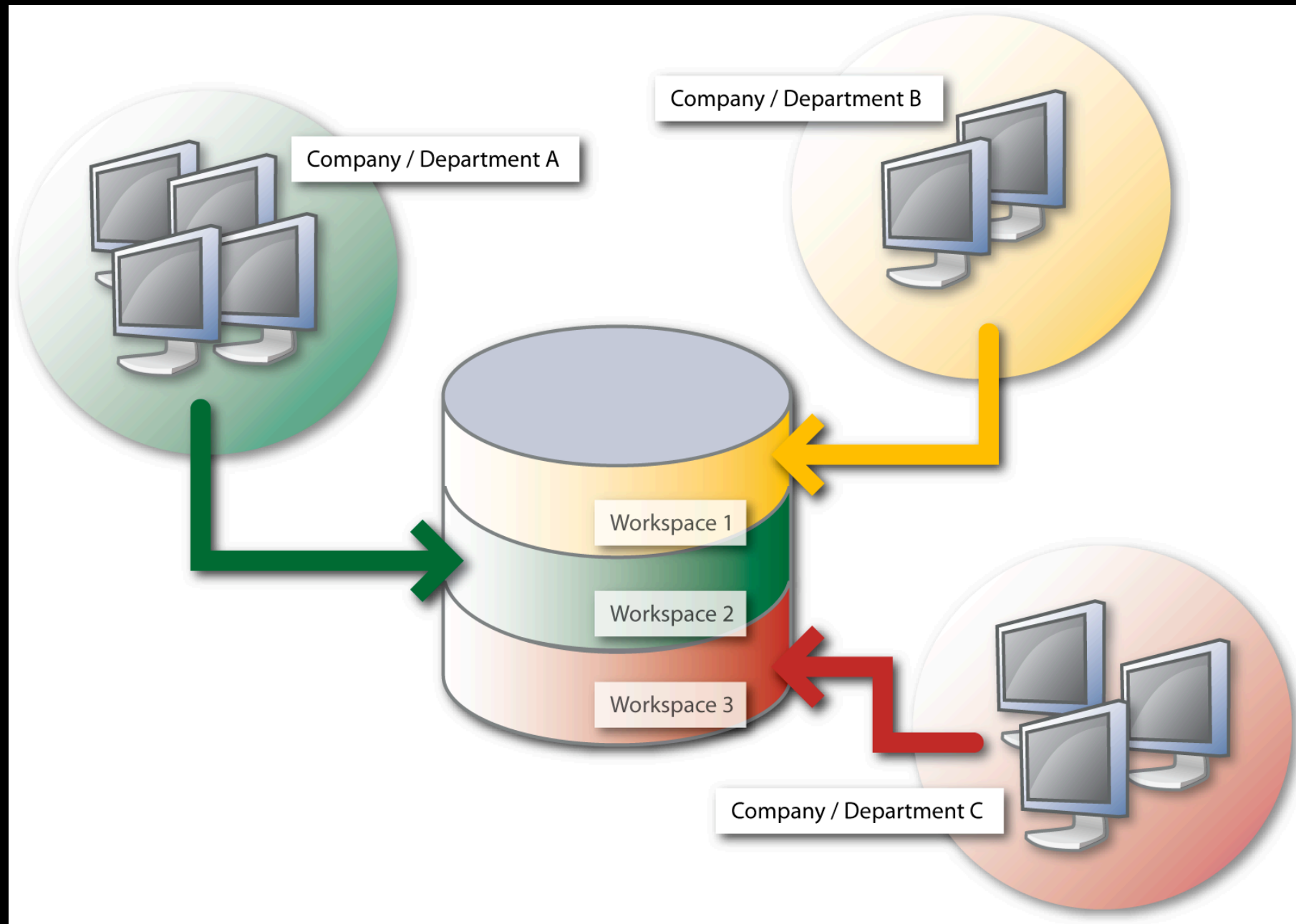
Architecture



Architecture - Database Encapsulated

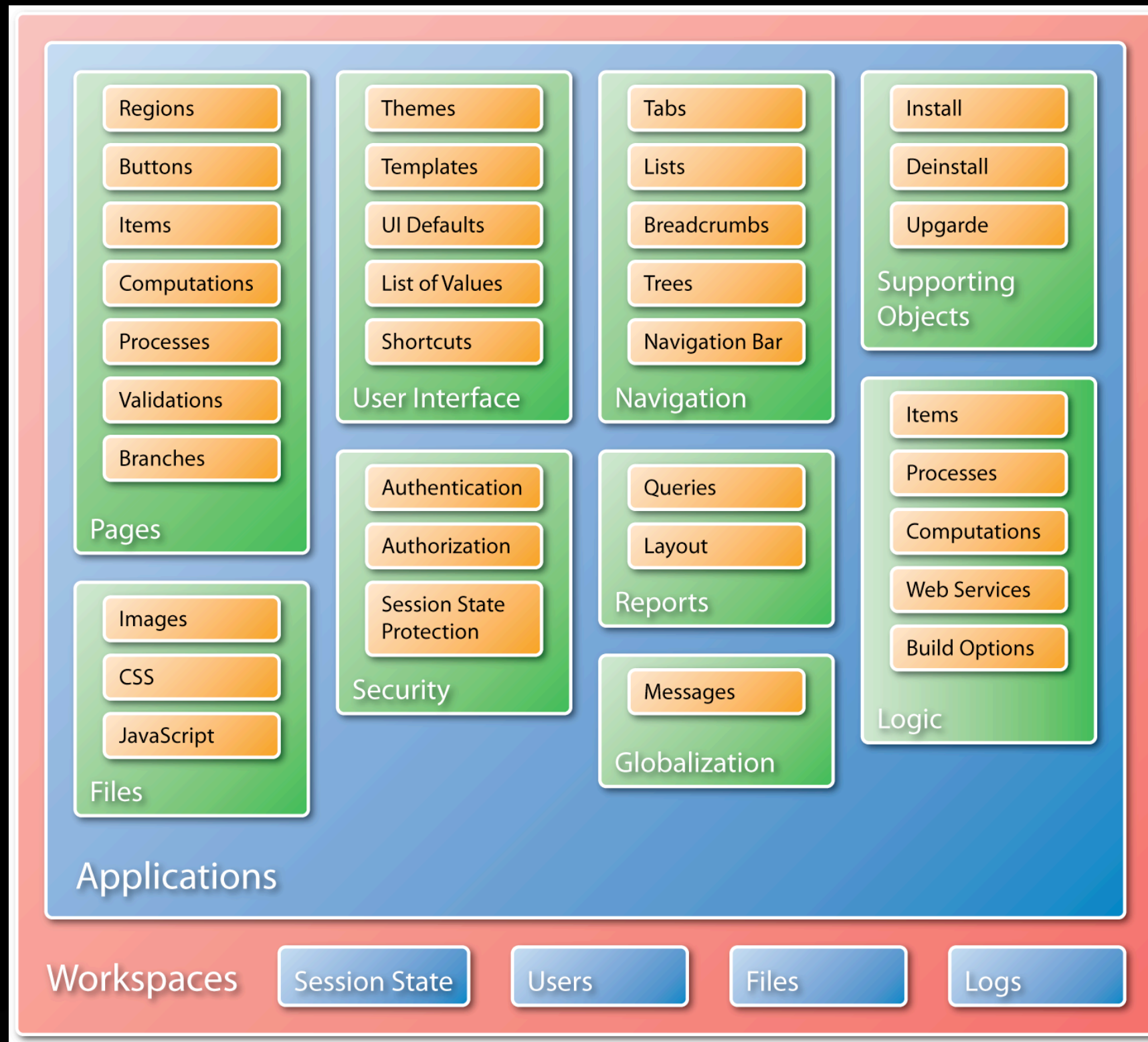


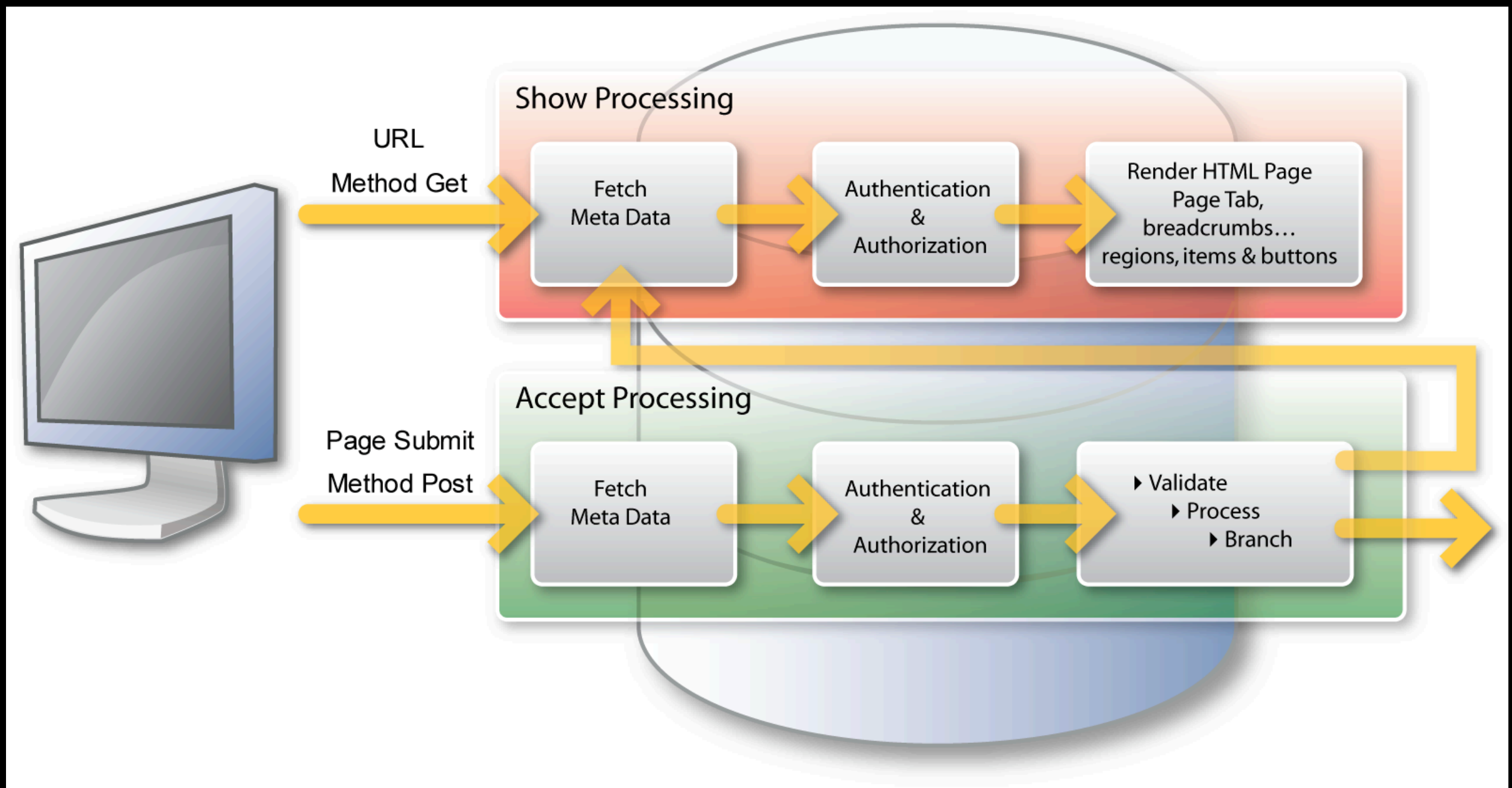
- Native Application Development Tool of the Oracle Database
- Installed into the Database, written in PL/SQL
- Application Metadata and Session State Database Stored
- HTTP via Apache or Embedded PL/SQL Gateway
- APEX is installed by default for Starter Databases with 11g



- Each Workspace Can be Assigned one or more schemas
- Each Workspace Can have any number of Applications

Architecture - Meta Data Model

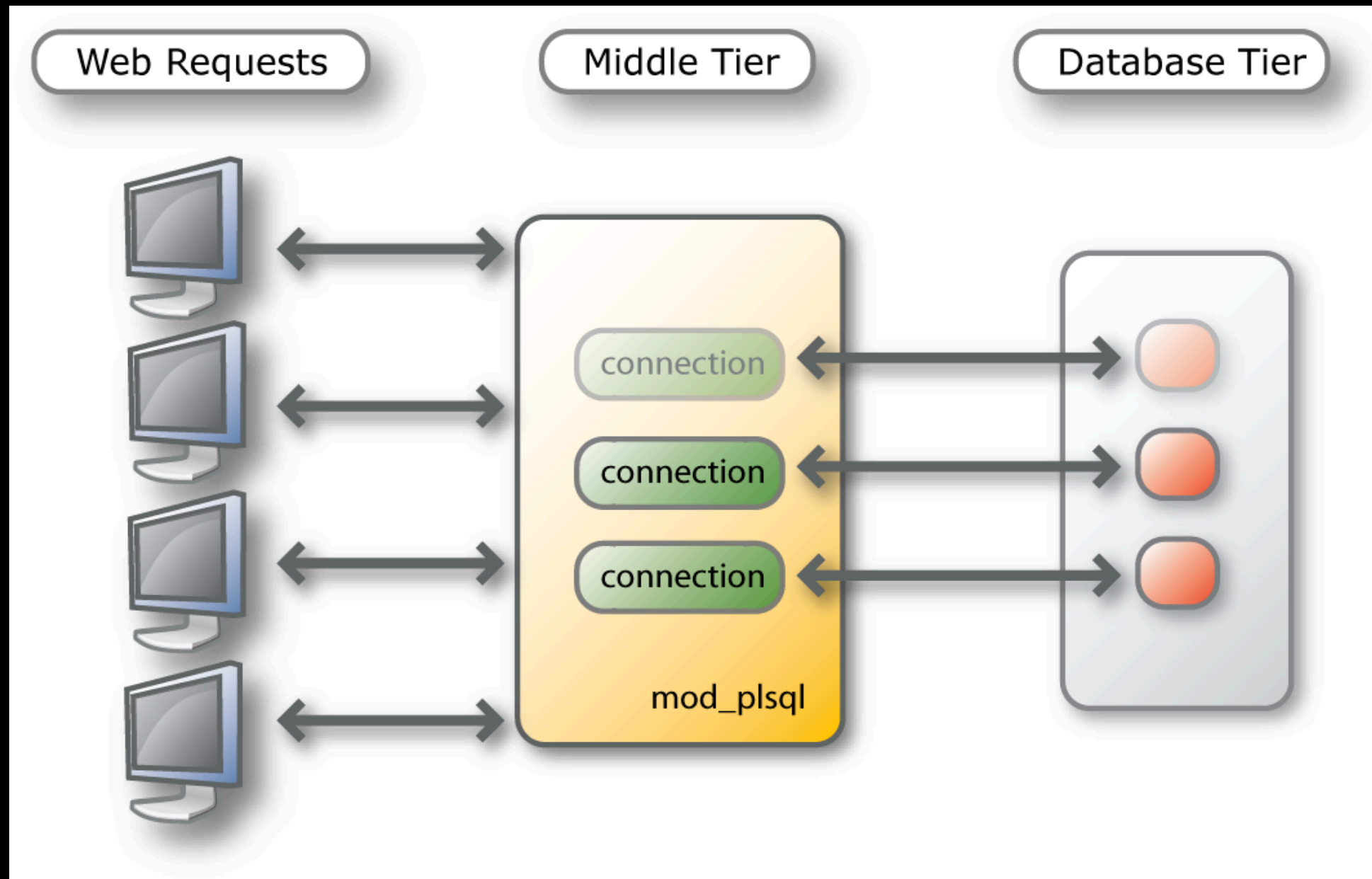




- Method Get is Used to Render Application Pages
- With Method Get the URL determines the Application and Page
- Method Post is Used to Submit Pages / Data for Processing

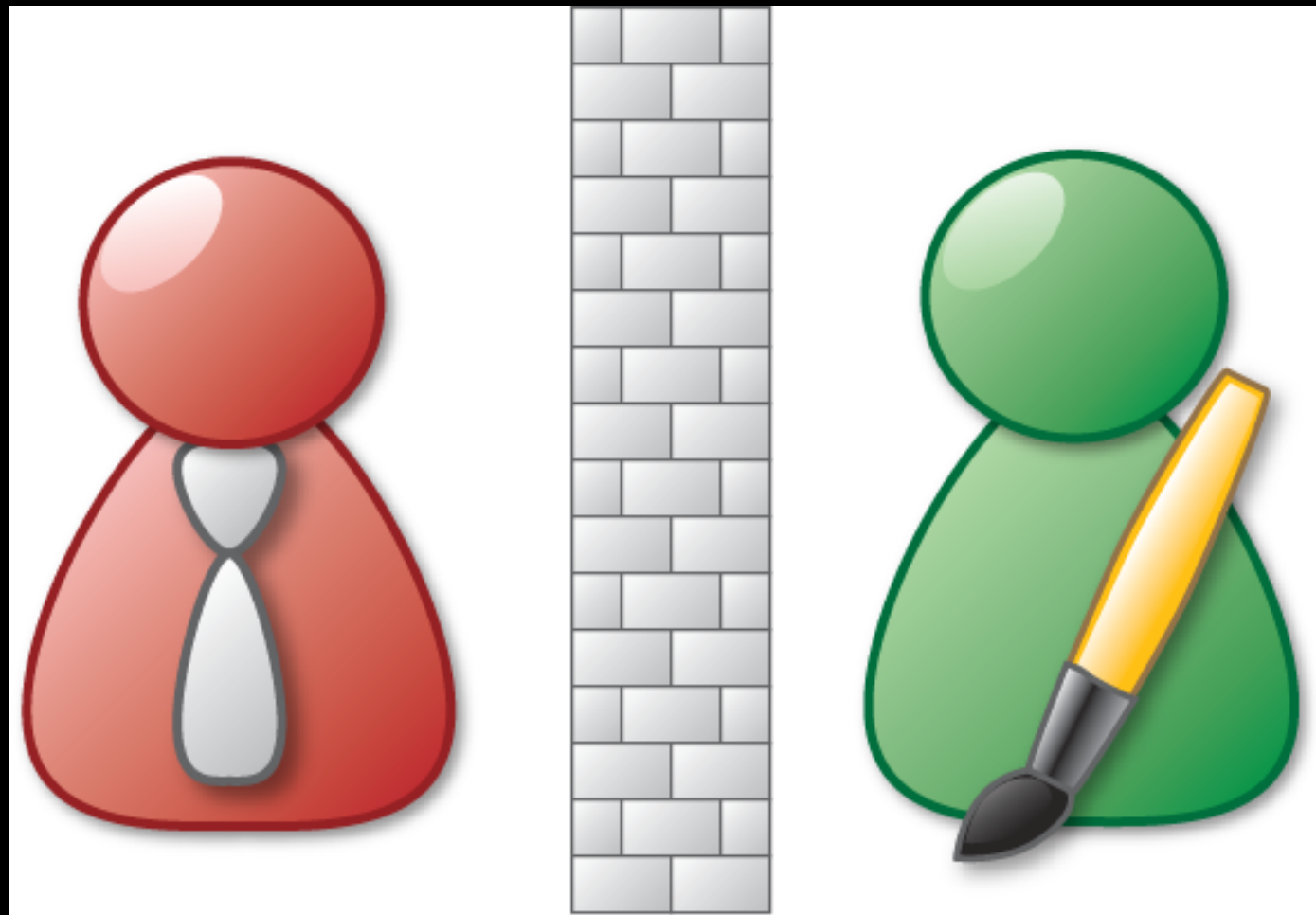
Apex Evangelists Architecture - Asynchronous Connection Management

Oracle Specialists

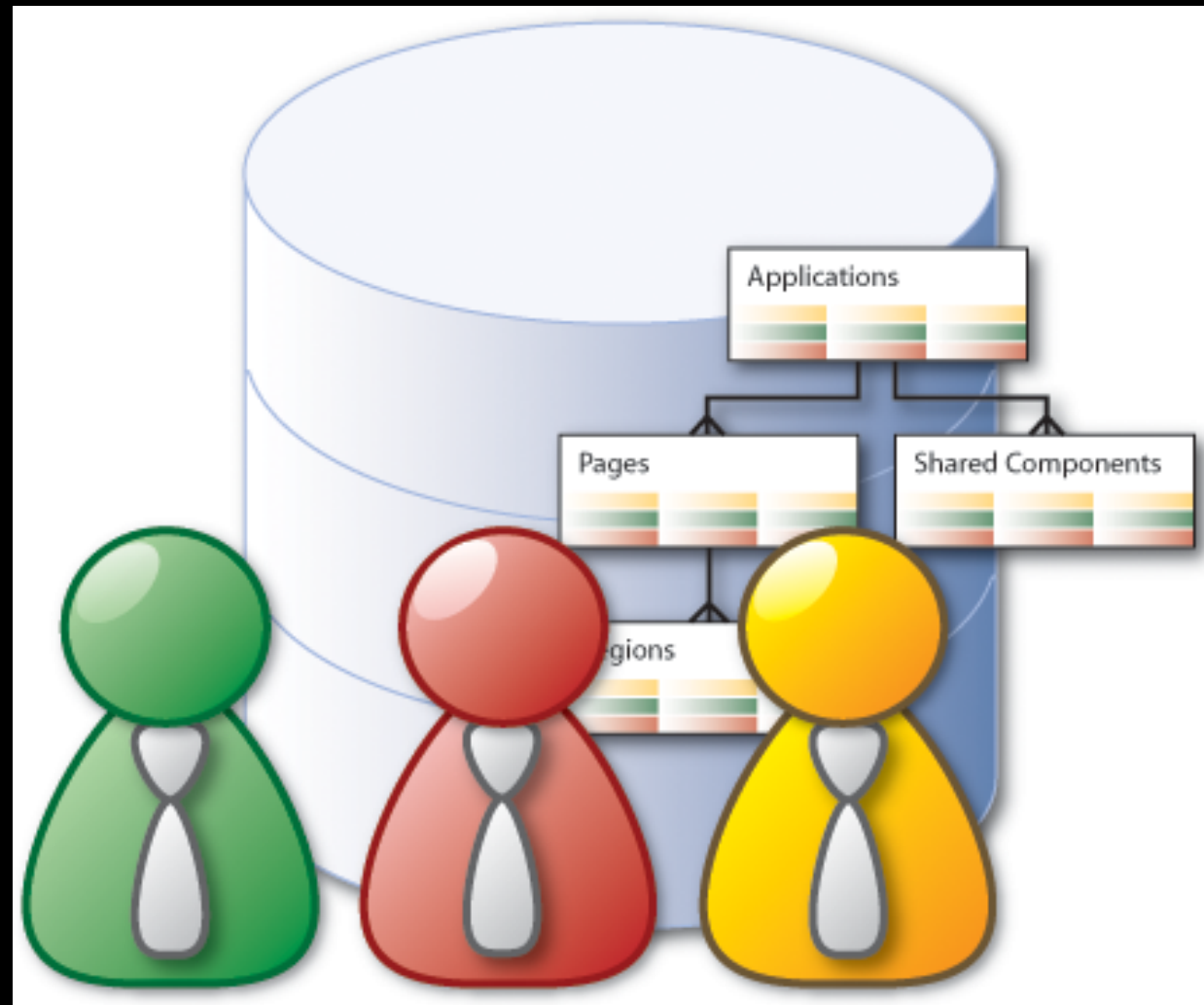


- Web clients connect to a pool of connections
- Each connection from the pool maintains a dedicated connection to the database
- Only active database sessions consume database resources

Architecture - Separation of App Logic & Presentation



- Application Presentation is driven by templates and CSS
- Application Logic not co-mingled with presentation
- User interface themes can be switched to give any application a different look

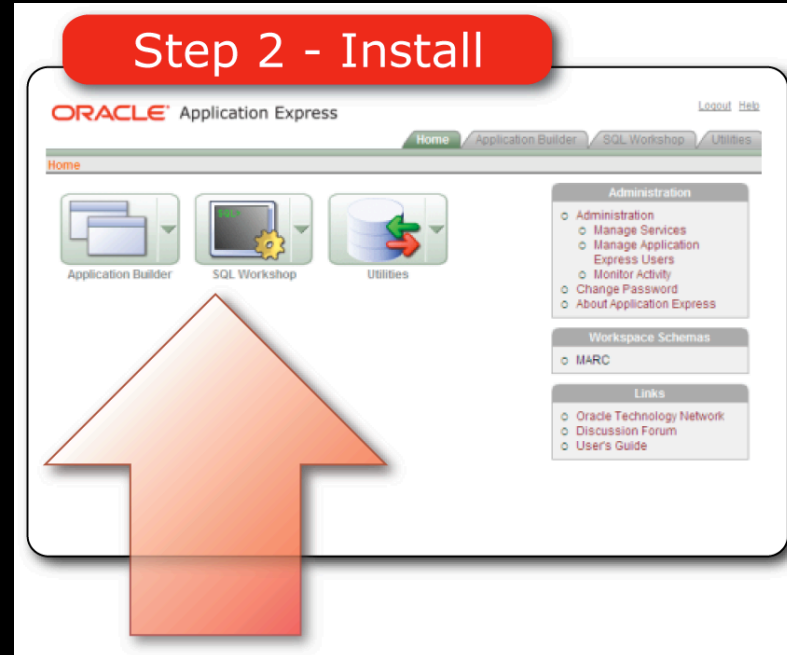


- Multiple developers concurrently develop the same application at the same time
- Developers Can “Lock” pages if they prefer exclusive rights to develop a page
- All Developers see current application state enhancing collaborative development
- Built in report document who changes what and when

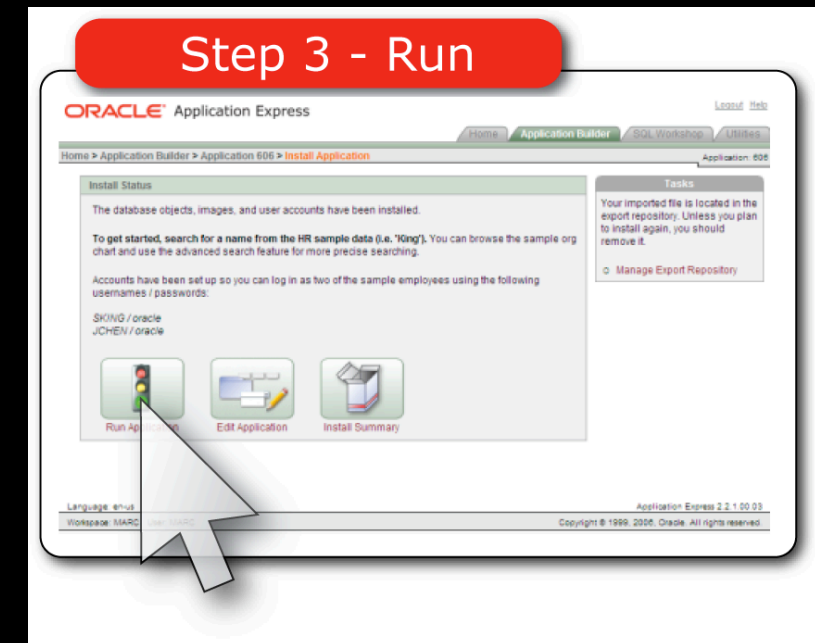
Step 1 - Download



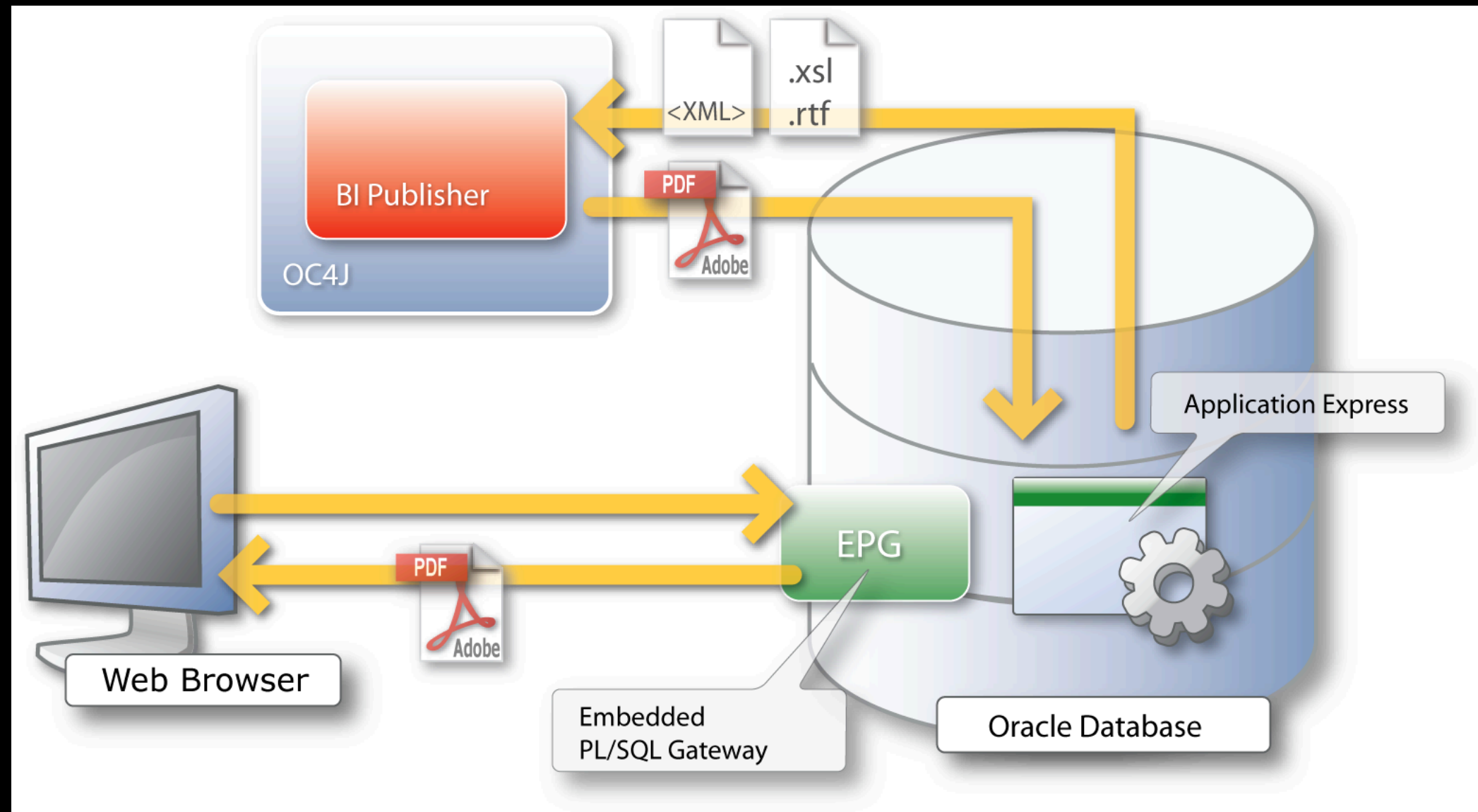
Step 2 - Install



Step 3 - Run



- Running an App in a dev environment requires no deployment or compilation
- Moving an App from one server to another requires an export and import
- Apps Can be exported into a Single File
- Apps Can Optionally Deploy Support Objects



- APEX generates XML and sends it to BI Publisher for Transformation
- XML is Transformed to PDF or other formats using .XSL or .RTF

- Partial Page Refresh
- Column Sorting
- Column Filtering
- Web Service Integration
- Email API
- Documented JavaScript API

Richer User Experience

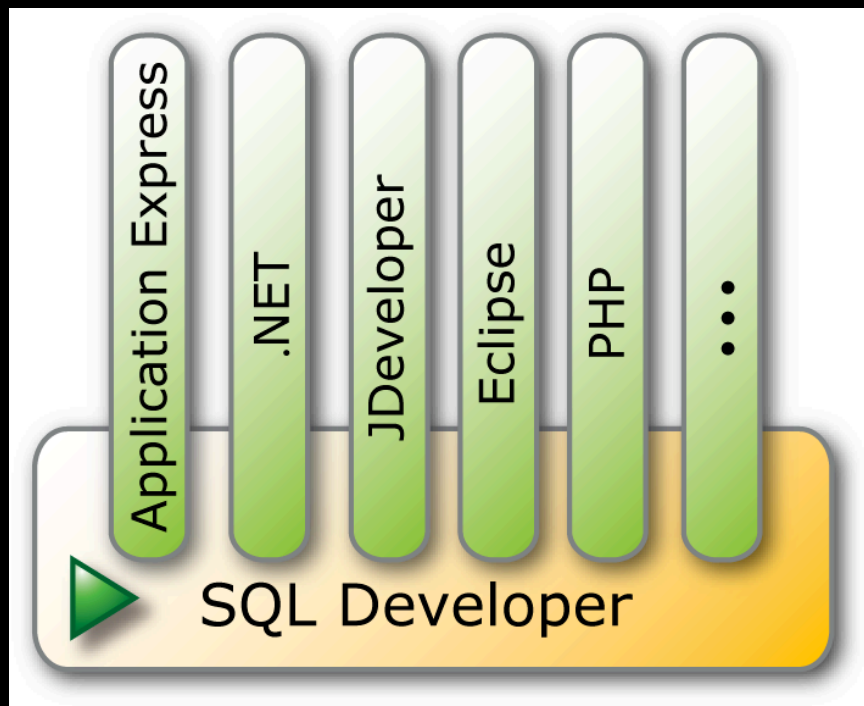
Faster Response Times

Interoperability with Other JavaScript Libraries

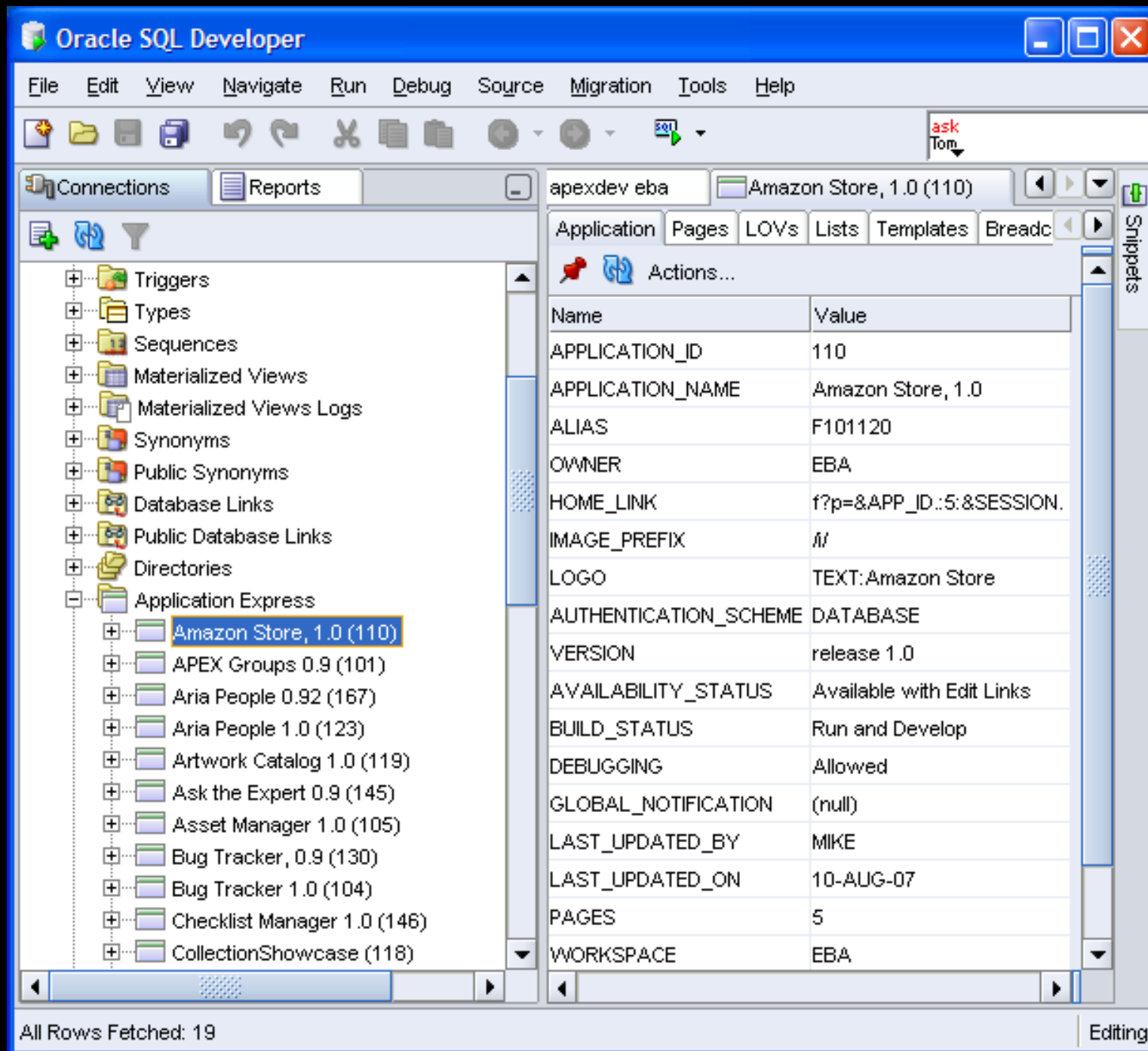


- Authentication Services
 - Use built in schemes
 - Create Custom
- Authorization Services
 - Define authorization schemes
- Protection from:
 - Cross Site Scripting
 - Denial of Service
 - SQL Injection
 - URL Tampering
- Full Access to DB Security Features





- SQL Developer is a Database development tool for all frameworks
- Improves DBA Developer Productivity
 - Browse database objects
 - Run SQL and SQL scripts
 - Edit and debug PL/SQL
- Browse APEX Applications
- Install APEX Applications
- APEX Meta Data Reporting



- APEX Applications integrated into SQL Developer 1.2.1
- Browse APEX application meta data

Application Express

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Why APEX?



- RAD Productivity
- Leverage SQL
- Database Encapsulated
- Performance
- Ease of Deployment
- Declarative
- SAAS Enabled
- Browser Based Development
- Transition Legacy to Web
- Community

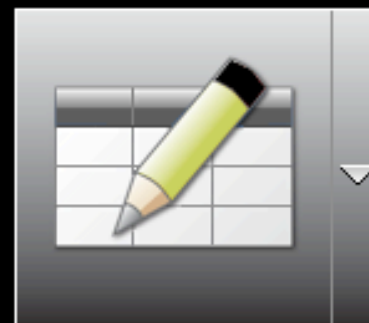
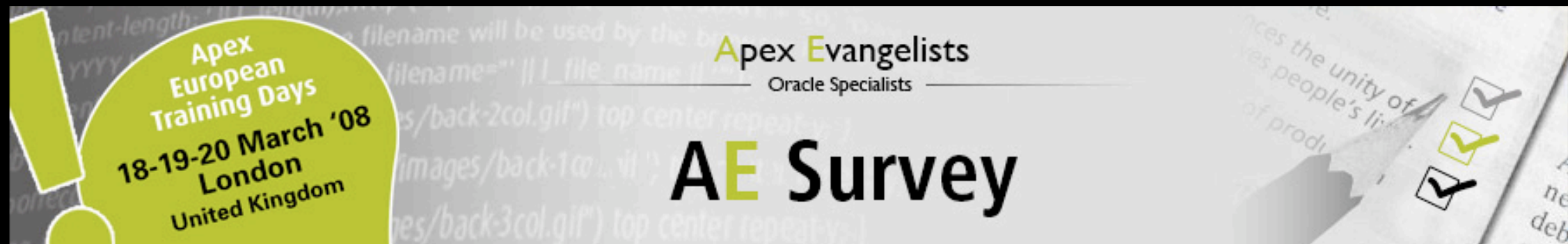
Application Express

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Quick Survey Application



Screenshot Survey App



Surveys



Results



Administrators

Agenda - Survey Application

- Install database script in development environment
- Create sequences – 5 min
- Thinking and Searching for examples – 60 min
- Creating my application with theme 4 (1) – 10 min
- Adjust theme 4 – 90 min
- Define Authentication scheme – 5 min
- Create Report and Form: Persons (2) – 5 min
- Create Report and Form: Survey (2) – 5 min
- Create Master/Detail Question and Answers (2) – 20 min
- Create Welcome Page with navigation (1) – 15 min
- Create Survey flow (3) – 90 min
- Create Graphs (1) – 15 min
- Create 3.1 app (1) – 15 min
- Test – 30 min

Application Express

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Getting Started



- Step 0 Go to apex.oracle.com
- Step 1 Get a tour of Application Express (Flash demo)
- Step 2 Get an overview of Application Express (PDF)
- Step 3 Request a free Application Express Workspace
- Step 4 Play with it!
- Step 5 Create an application (2 day APEX Guide)
- Step 6 Install some packaged applications and samples
- Step 7 Read documents and tutorials

- Step 8 Learn Oracle SQL & PL/SQL
- Step 9 Learn the web: javascript, css, html, ajax, ...
- Step 10 Read Blogs
- Step 11 Get into the APEX forum
- Step 12 Get into the APEX SIG
- Step 13 Buy “Pro Application Express” by John Scott
- Step 14 Follow training by Apex Evangelists ;-)
<http://eurotraining.apex-evangelists.com>

Apex
European
Training Days
18-19-20 March '08
London
United Kingdom

Apex Evangelists

European Application Express Training
London 18th-20th March 2008

Tuesday 18th March

08:30 - 09:15 Registration (+ Breakfast)
09:15 - 09:45 Introduction
09:45 - 11:15 Best Practices
11:15 - 11:30 Break
11:30 - 13:00 Templates
13:00 - 14:00 Lunch
14:00 - 15:30 Debugging APEX Applications
15:30 - 15:45 Break
15:45 - 17:15 APEX 3.1 New Features

Wednesday 19th March

09:15 - 11:15 AJAX & JavaScript
11:15 - 11:30 Break
11:30 - 13:00 Hands-on AJAX/Javascript
13:00 - 14:00 Lunch
14:00 - 15:30 PDF Printing
15:30 - 15:45 Break
15:45 - 17:15 Writing Secure Applications

Thursday 20th March

09:30 - 11:15 Real World Apex Dictionary Uses
11:15 - 11:30 Break
11:30 - 13:00 3rd Party Integration
13:00 - 14:00 Lunch
14:00 - 15:30 Quiz
15:30 - 16:00 Q&A & Feedback
16:00 - 17:15 Closing Drinks

Agenda Notes:

Please note we reserve the right to change this Agenda depending on feedback received before and during the training session. We may substitute, add, modify or remove sessions depending on the time available and/or attendee preferences.

Live Demos:

Our training heavily features Live Demos, so we ask you to make allowances for the additional setup and configuration that these demos will take to perform.

Bring Your Own Laptop:

Depending on timing we may integrate some Exercises for you to perform. There will be no pressure on you to take part in these exercises, nor will you be marked on your performance in these exercises. However if you wish to take part in them then we ask that you bring your own laptop which you can use to access our servers.

Registration:

Please ensure you arrive in sufficient time to register on the first day, if you will not be able to arrive in time for the registration then please inform us in advance. Also note that anyone who has not paid for the training in advance will not be permitted to attend the training. If you have not received your invoice or have problems with payment, please inform us immediately.

Apex Evangelists

Website: <http://apex-evangelists.com>

Email: info@apex-evangelists.com



- **Apex Evangelists Website**
 - <http://apex-evangelists.com>
 - dimitri.gielis@apex-evangelists.com
- **Blogs**
 - <http://dgielis.blogspot.com>
 - <http://jes.blogs.shellprompt.net>
- **Forum**
 - <http://forums.oracle.com/forums/forum.jspa?forumID=137>
- **APEX sites**
 - <http://apex.oracle.com>
 - <http://apexsig.ioug.org>