

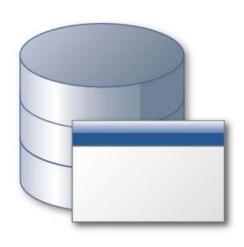
ORACLE

Oracle Application Express (Version 3.1)

Robert Korošec Oracle

Oracle Application Express (APEX)

Database-centric Web application development tool



- Unique Rapid Application Development (RAD) tool for the Oracle Database
- Browser based for Development, Deployment & Use
- Declaratively build professional Web 2.0 applications that are fast and secure
- Leverages full Oracle database capabilities and existing SQL & PL/SQL skills
- Standard component of the database
- Fully supported, "no-cost" option with all editions of the Oracle Database

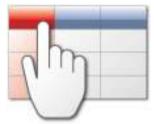
Easy to develop • Easy to deploy • Easy to manage

Use Cases



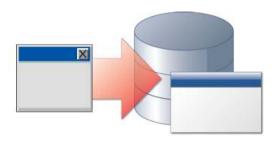
Data-driven Applications

Develop opportunistic and departmental productivity applications



Online Reporting

Build SQL-based reporting applications on existing database schemas



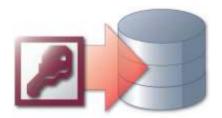
Oracle Forms Modernization

Leverage SQL & PL/SQL declarative programming skills to move Forms applications to HTML / Web 2.0



Spreadsheet Web-ification

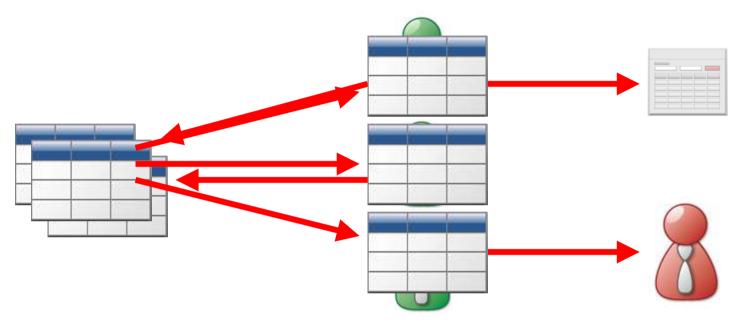
Convert spreadsheets to Web applications where they can be concurrently viewed and edited



Access Replacement

Consolidate outgrown Access applications to the Oracle database with an APEX Web front end

Problem: Spreadsheets



- Multiple sources of truth
- Manual collation from different sources
- Reports generated from partial truth
- No controls over who sees the information

Oracle Application Express

EASY to Develop

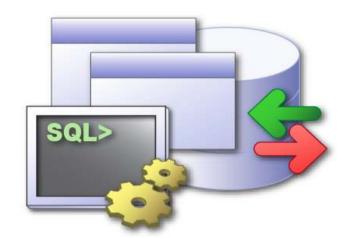
- Rapid Web application development
- Fully productive very quickly
- Declarative / Wizards

EASY to Deploy

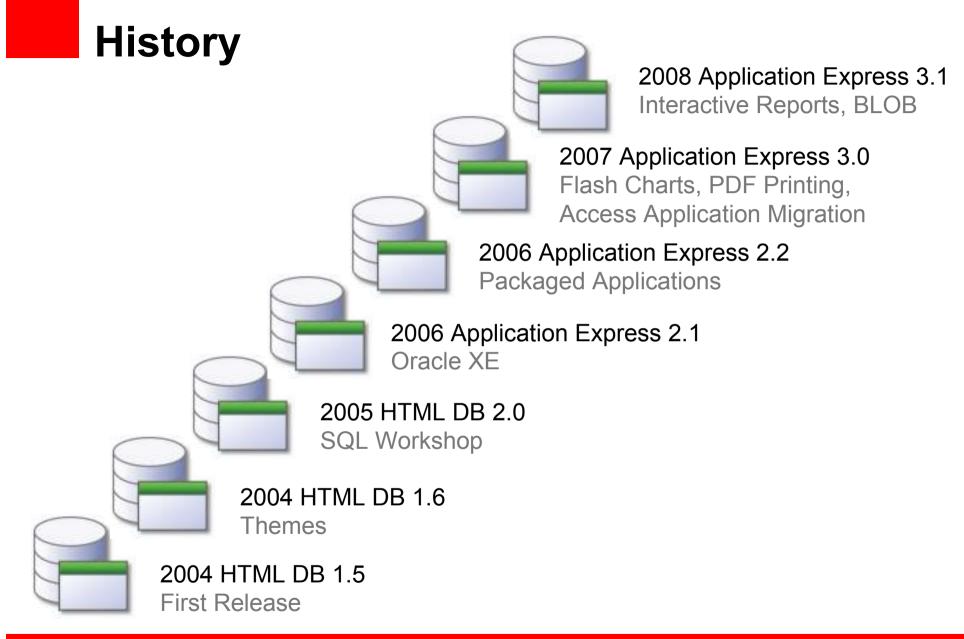
- No client software
- Browser based
- Feature of the Oracle Database

EASY to Maintain

- Centrally managed metadata repository
- Multi-tenant hosting
- Robust framework





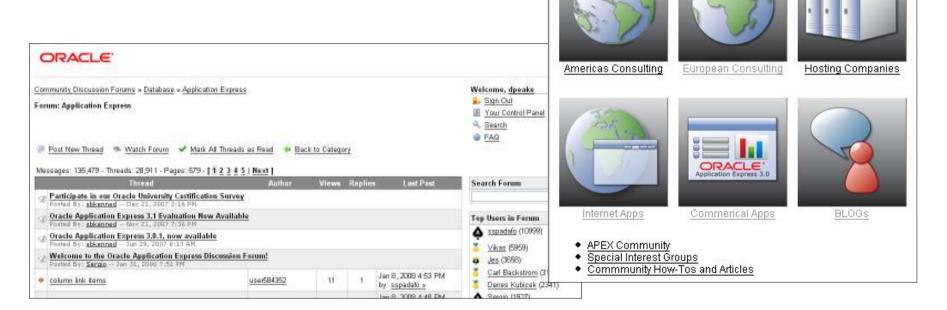


Community Focus

- Strong & Supportive Community
- Popular OTN Discussion Forum

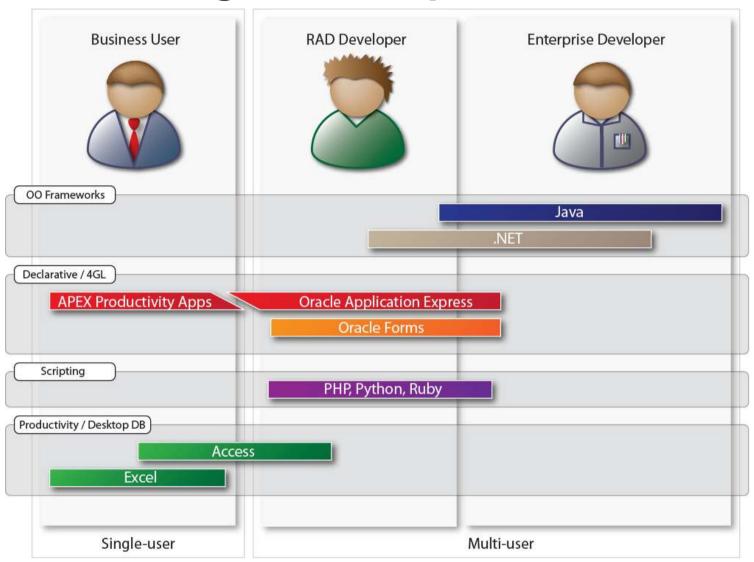
Consulting Companies APEX Practices

- Commercial Applications
- Blogs, SIGs



Oracle Application Express

APEX – Target Development Community



APEX Adoption

(As of 5/22/2008)

apex.oracle.com

2M page views/week, 14,000 workspaces, 300 new workspaces/week

Community

17 APEX presentations at Collaborate 08

18 APEX presentations at ODTUG Kaleidoscope 2008

46 consulting companies, 7 hosting companies

21 commercial applications, 37 blogs

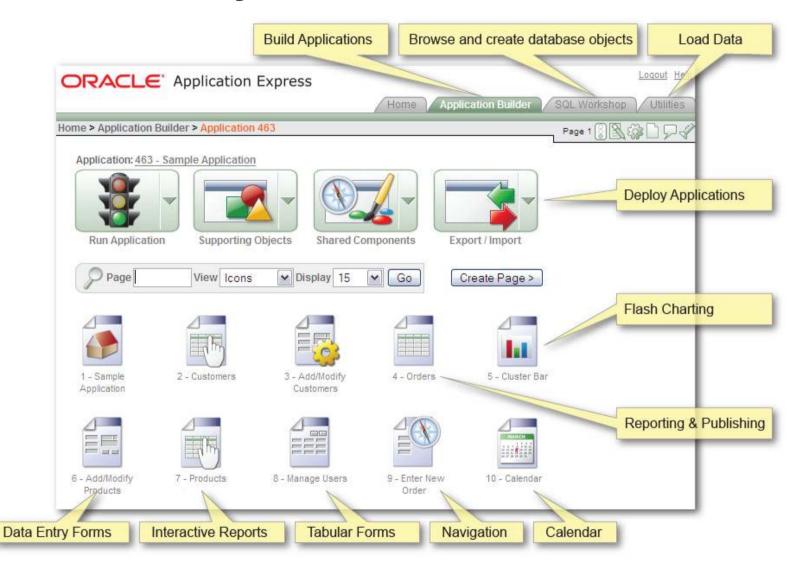
3rd most popular discussion forum on OTN

Downloads

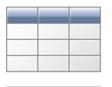
500K OTN { #2 DB development tool OTN download }

1.3M Oracle XE 60K APEX Packaged Applications

Functionality



Out of the Box Development Features



Reports



Validations



Translation Services



Forms



Processes



Conditional Processing



Charts



Computations



Authentication



Calendar



Branches



Authorization



Templates



Web Services



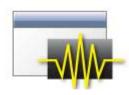
Session State Management



Navigation

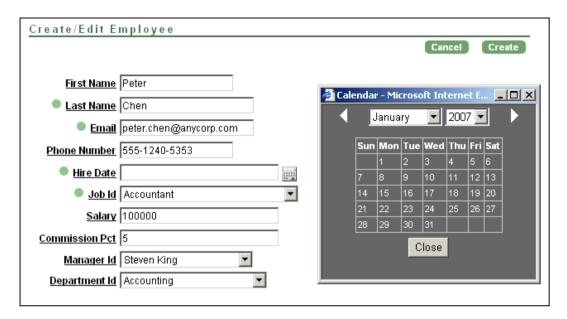


Email Services



Logging & Monitoring

Data Entry Forms

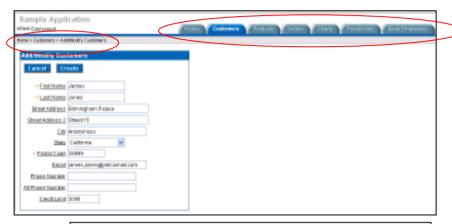


- Feature Rich
 - Built in widgets available
 - Pop-Up calendar
 - List of values
 - Enable Validations on Form Fields
 - Lost update detection

- Variety of Form Types
 - Tabular forms
 - Master Detail forms
 - Forms on a Web Service
 - Form on a Table with Report

Navigation

- Tabs
- Lists
- Navigation Bar
- Trees
- Navigation Using Branches

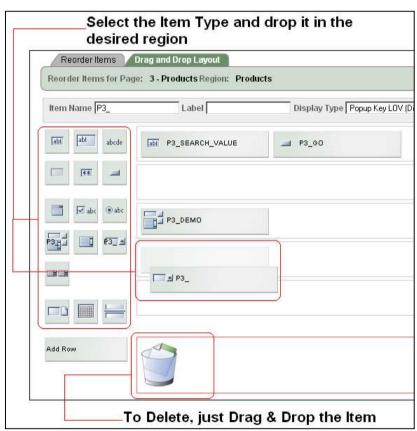




Drag & Drop Item Creation

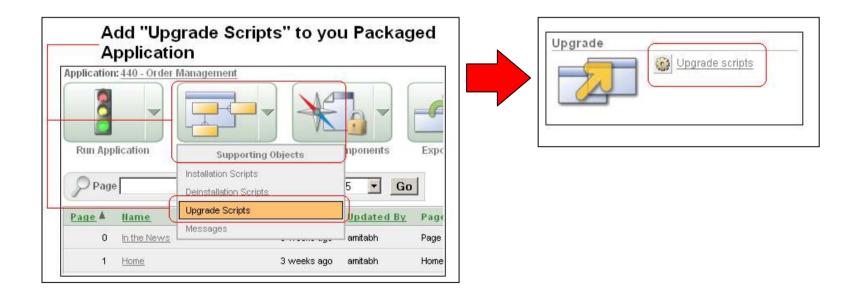
- Quickly create and Delete items
- Reorder and place items
- Change selected item attributes





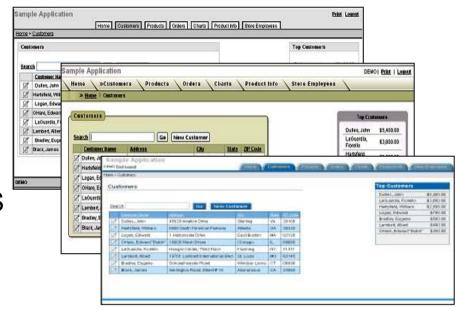
Supporting Objects Enhancement

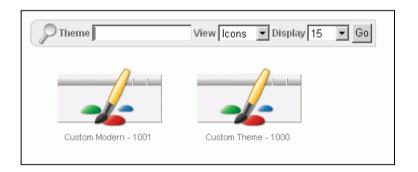
- Add Upgrade Scripts
 - Provide Upgrade patches to your packaged applications



Look and feel

- Consistent User Interface
- Template driven
- Customize with HTML and CSS
- Easily Switch Themes
- Ability to define Custom Themes and make them available across Workspaces NEW





Reports

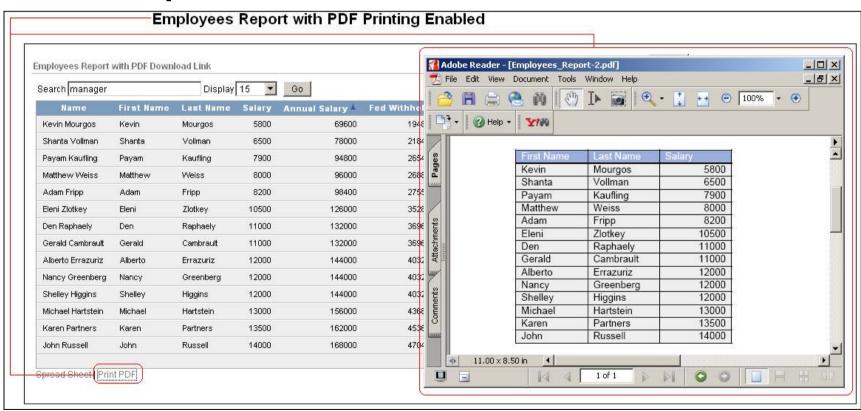
Department Id	Department Name	Number Of Employees	Manager Name	Location
110	Accounting	<u>2</u>	S. Higgins	United States of America
10	Administration	<u>1</u>	J. Whalen	United States of America
40	Human Resources	<u>1</u>	S. Mavris	United Kingdom
80	Sales	<u>34</u>	J. Russell	United Kingdom
90	Executive	<u>3</u>	S. King	United States of America
70	Public Relations	<u>1</u>	H. Baer	Germany
20	Marketing	<u>2</u>	M. Hartstein	Canada
100	Finance	<u>6</u>	N. Greenberg	United States of America
30	Purchasing	<u>6</u>	D. Raphaely	United States of America
60	IT	<u>5</u>	A. Hunold	United States of America
<u>CSV PDF</u> row(s) 1 - 10 of 11 <u>■ Next</u> •				

- Control Layout and Pagination
- Enable Column sorting
- Export content to CSV or XML
- Associate Print Attributes

- Drill down to other reports, charts, forms
- Apply "Authorization Schemes"
- Allow external processing via a URL

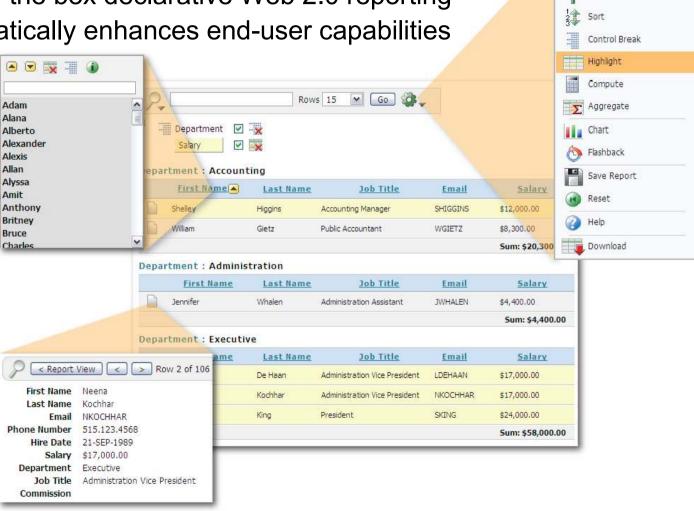
Declarative PDF Reporting Services

Select Report Document Formats



Interactive Reports

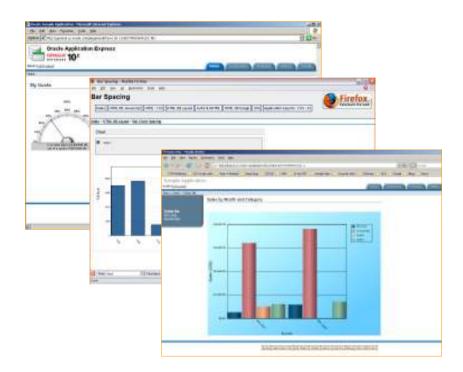
- Out of the box declarative Web 2.0 reporting
- Dramatically enhances end-user capabilities



Select Columns

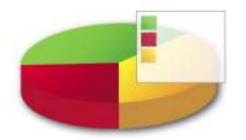
Charts

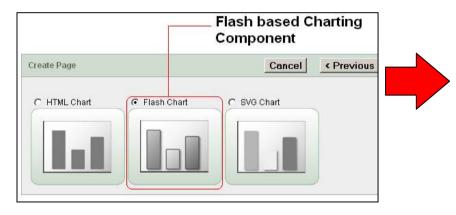
- SVG charts
- HTML charts
- Flash charts

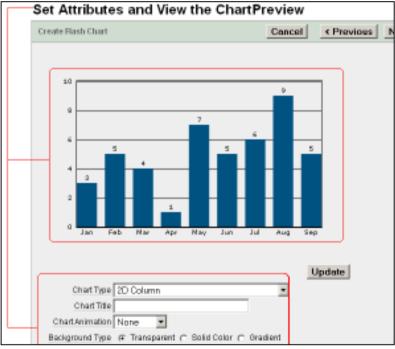


Flash Charts

- 18 New Chart Types
- Migrate existing SVG Charts



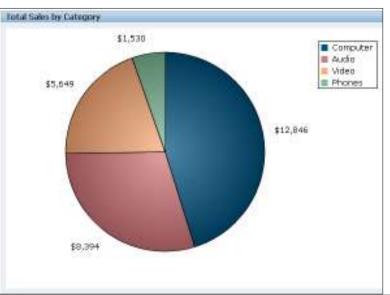


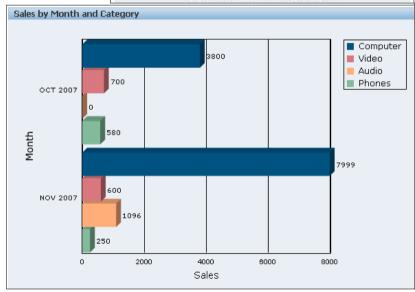


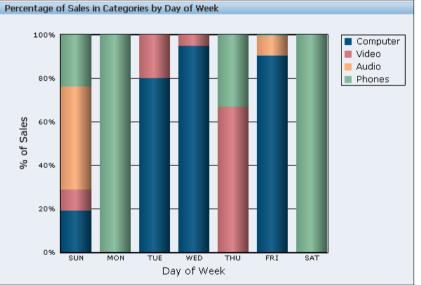


Charts





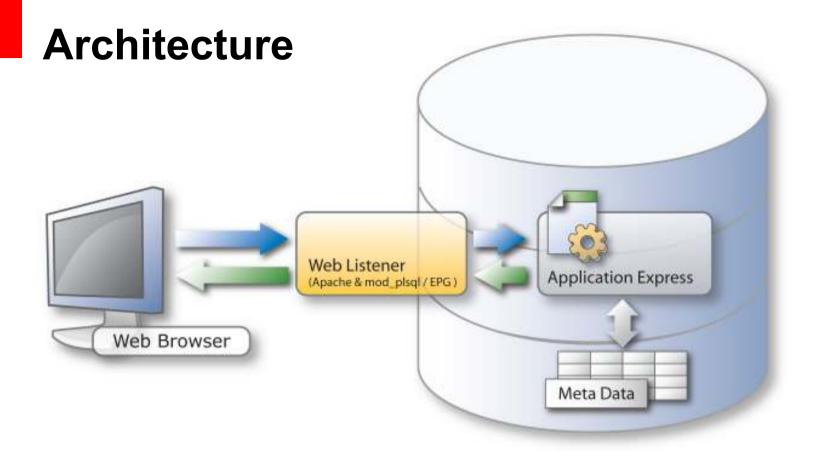






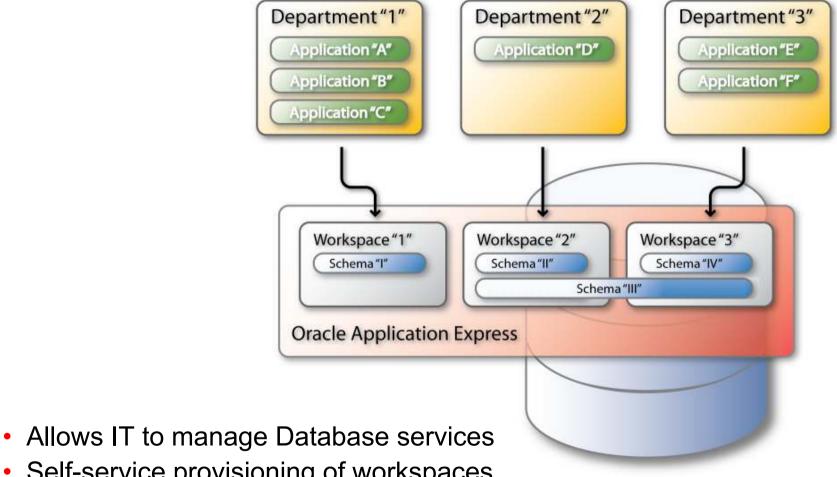
Security

- Built in authentication modules
 - I DAP
 - Single Sign-On
 - Open Door Credentials
 - Oracle Application Express Account Credentials
 - Database Account Credentials
 - No Authentication (using DAD)
- Centrally defined authorization rules
- Session state protection
- Integration with database security features
 - FGAC
 - Transparent Data Encryption



- Integrated within the database 9iR2, 10g, 11g and XE
- Supports all Oracle DB operating systems
- Uses Embedded PL/SQL Gateway or Apache with mod_plsql
- Metadata driven

Multi-Tenant Hosting



- Self-service provisioning of workspaces
- Example: Free hosted development service at http://apex.oracle.com

Deployment Options

Multi-tenant and browser based architecture allows for deployment anywhere



Hosted Service (dedicated or multi-tenant)



Corporate IT / Enterprise Service (dedicated or multi-tenant)



Departmental Server



Local Database (Oracle XE)

Application Express - Customers









































Overview of Commercial Applications

Doug Gault, Hotsos

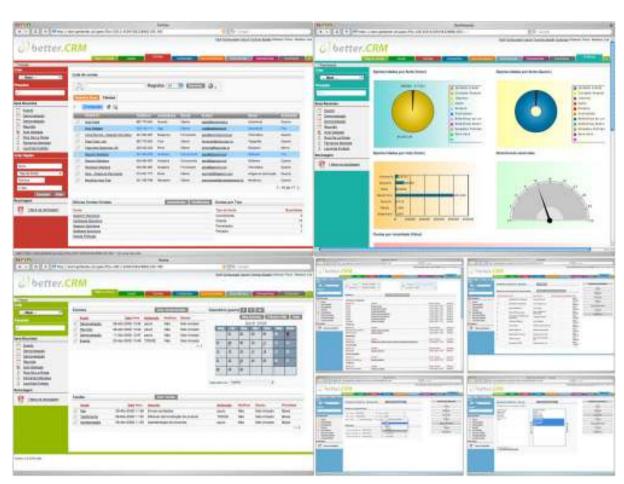
Hotsos Application Workload Characterization Solution (HAWCS)



Overview of Commercial Applications

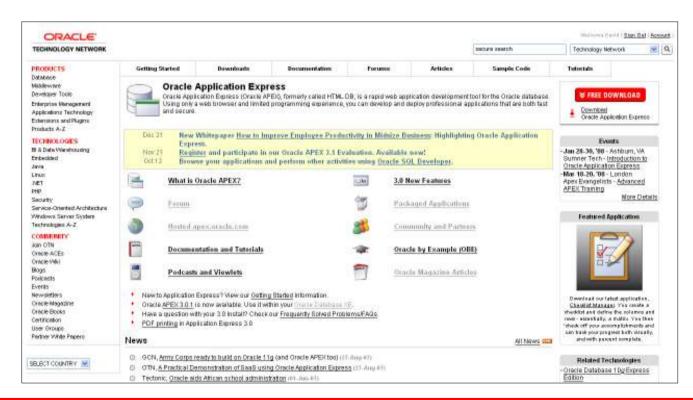
Paulo Vale, Neoface

BetterCRM, BetterTASKS



Oracle Technology Network (OTN)

- Download latest Release
- Getting Started
- Documentation & Tutorials Community & Partners
- Hosted Environment
- Oracle By Examples





Conclusion

Easy to Develop

Easy to Deploy

Easy to Manage



Information:

http://otn.oracle.com/apex

Hosted Development:

http://apex.oracle.com





ORACLE IS THE INFORMATION COMPANY