



Beautiful Application Express Dashboards for E-Business Suite

insum

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Agenda

- Dashboard relevancy in EBS
- EBS and APEX Integration
- Develop a quick APEX dashboard

Non-Scientific Survey!

Dashboard Relevancy in EBS

An abstract geometric pattern consisting of white lines and dots on a green background. The pattern features several large, overlapping circles and arcs. Small white dots are placed at various points along these lines, and some dots are larger than others, creating a network-like structure that suggests connectivity or data flow.

Dashboard in EBS – Before...

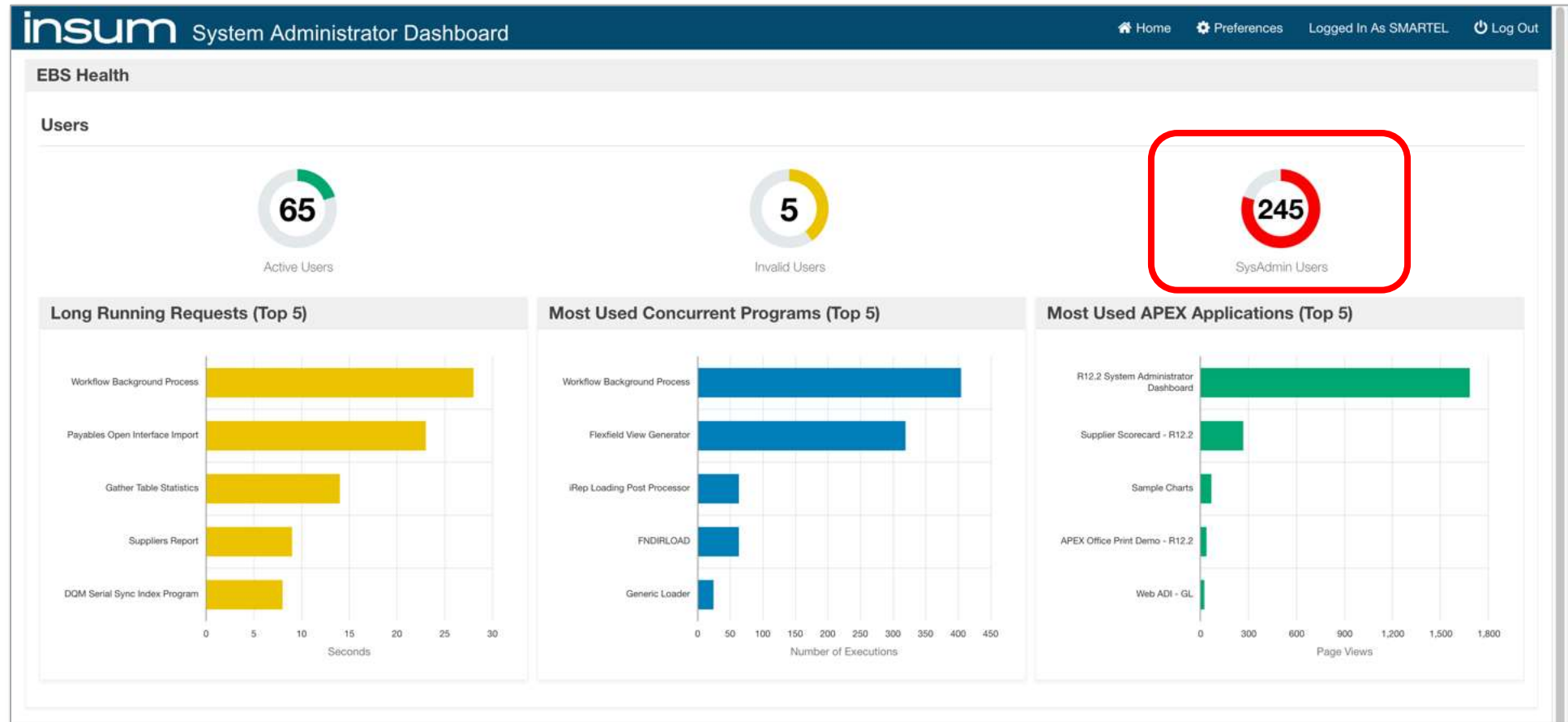
The screenshot shows the Oracle EBS 'Submit Request' dialog box. The main dialog has a menu bar (File, Edit, View, Folder, Tools, Window, Help) and a toolbar. The 'Submit Request' dialog is titled 'Run this Request...' and contains fields for Name, Operating Unit, Parameters, and Language. The 'Name' field is highlighted with the text 'Users of a Responsibility'. A 'Copy...' button is next to the Name field. Below the Name field are sections for 'At these Times...' (Run the Job) and 'Upon Completion...'. The 'Layout' field is set to 'Layout', 'Notify' is set to 'Notify', and 'Print to' is set to 'noprint'. There are buttons for 'Options...', 'Delivery Opts', 'Help (C)', 'Submit', and 'Cancel'.

The 'Parameters' sub-dialog is open, showing the 'Application Name' field set to 'System Administration' and the 'Responsibility Name' field set to 'System Administrator'. There is a scrollable list below the 'Responsibility Name' field. The 'Parameters' dialog has buttons for 'OK', 'Cancel', 'Clear', and 'Help'.

Dashboard in EBS – Before...

25-FEB-19 23:07			
Page: 1			
Users with a Given Responsibility			
Application Name: System Administration			
Responsibility Name: System Administrator			
User Name	Start Date	End Date	Description
ACHANG	17-OCT-2003		
ADB	08-APR-1997		
ADCOCKPIT	27-FEB-2003		A&D Manager
ADMIN1	29-SEP-2006		
ADSDemo1	04-DEC-2006		
AEHRMS	01-JAN-1990		
ALAN	07-DEC-1997	09-APR-1998	Alan Miller
AMRBUILDTEAM	01-JAN-1992		
AOLCLASS	20-JAN-1998		Demo for AOL Class (Develop Extensions to Oracle Applications)
APOTTER	07-AUG-2002		
APPSADMIN	27-DEC-2005		Applications System Administrator
ARC-PUR	06-FEB-1998		Archive Purge user for Vision Operations
ARGENTINA	31-JAN-2003		Vision Argentina User
ASGADM	01-AUG-2002		asgadm
AT1	01-NOV-1997	09-APR-1998	AppTech Build Team
AT2	05-JAN-1998	09-APR-1998	AppTech Build Team
AUDITOR	20-OCT-2003		User for ICM
AUHRMS	01-JAN-1951	04-OCT-2004	AUHRMS Super User
AUSTRALIA	11-MAR-2003		Vision Australia user
BANKACCOUNTING_ADMI	01-MAY-2007		Bank Accounting Administrator
BANKING	02-OCT-2002		Vision Banking User
BARRM	01-JAN-2000		BARRM
BEDGE	05-FEB-2008		
BELGIUM	06-OCT-1999	06-OCT-1999	Belgian User
BISUSER	07-AUG-2001		BIS User
BJOSEPH	01-JAN-2000		Brian Joseph
BKING	26-JUL-2001		
BLAVERY	10-OCT-2000		Beth Lavery
BPALMER	01-JAN-1998		Vision Corporation's Director of Employment (Blair Palmer)
BSC	25-NOV-2003		Balanced Scorecard User
CAHRMS	23-AUG-2000		Access to all Canadian Responsibilities
CANADA	27-OCT-2003		Progress Canada User
CBAKER	26-SEP-2002		Catherine Baker
CBLACK	19-FEB-1997	09-APR-1998	Chris Black
CBROWN	26-AUG-2003		Casey Brown
CCTDEMO	01-SEP-2000	06-AUG-2003	
CHILE	11-MAR-2003		Vision Chile User
CHORTON	02-JAN-2002		Connor Horton
CICAGENT	11-FEB-2002		Customer Support, Citizen Affairs (CIC)

Dashboard in EBS – Today!



Dashboard in EBS – Today!

The screenshot displays the insum System Administrator Dashboard. The top navigation bar includes links for Home, Preferences, and a user logged in as SMARTL, with a Log Out option. The main content area is titled 'EBS Health' and features three circular gauges: 'Active Users' at 65, 'Invalid Users' at 5, and 'SysAdmin Users' at 245. Below these, a modal window titled 'System Administrator Users' is open, showing a search bar with 'demo' and a table of users. The table has columns for User Name, Start Date, End Date, Description, and Email Address. The modal also includes a search filter 'Row text contains 'demo'' and a table of users.

User Name	Start Date	End Date	Description	Email Address
ADSDemo01	04-DEC-2006	-	-	nobody@localhost
AOLCLASS	20-JAN-1998	-	Demo for AOL Class (Develop Extensions to Oracle Applications)	-
GLOBALIZATIONS	18-JAN-1998	-	Used for Globalizations demonstrations, owned by FINSDEMO	-
I2	10-FEB-1998	-	Oracle/I2 integration version 2.2 demo user	nobody@localhost
KRVISION	01-JAN-1990	-	Korea Vision Demo	-
LEDGER	22-APR-1997	-	ALL GL responsibilities for all sets of books. Use it to demonstrate multiple sets of books.	-
MRC	07-DEC-1997	-	Multiple Reporting Currency Demonstration User. This user has all Responsibilities required to Enter Transactions in the Primary (Vision Project Mfg) Responsibilities and then view them in the Reporting (MRC, EURO & MRC, USD) Responsibility	-

Dashboard in EBS – Concepts

- Dashboard is a collection of charts, lists, or graphics representation of data
- Specific metrics are display helping the execution of a job, task, or role
- Provide drilldown capabilities to transactions
- Easy to use and understand for users
- Relevant

Dashboard in EBS – Benefits

- Provides central location for users to access and interact with data
- Enables to monitor performance or metrics in real time
- Reduces data overload in order to focus on essential issues
- Information is pushed to users as opposed being pulled from reports
- Better decision making

Dashboard in EBS – Benefits

APEX that you already own part of your
E-Business Suite database can provide
this functionality
at no cost!

...and it is cloud ready.

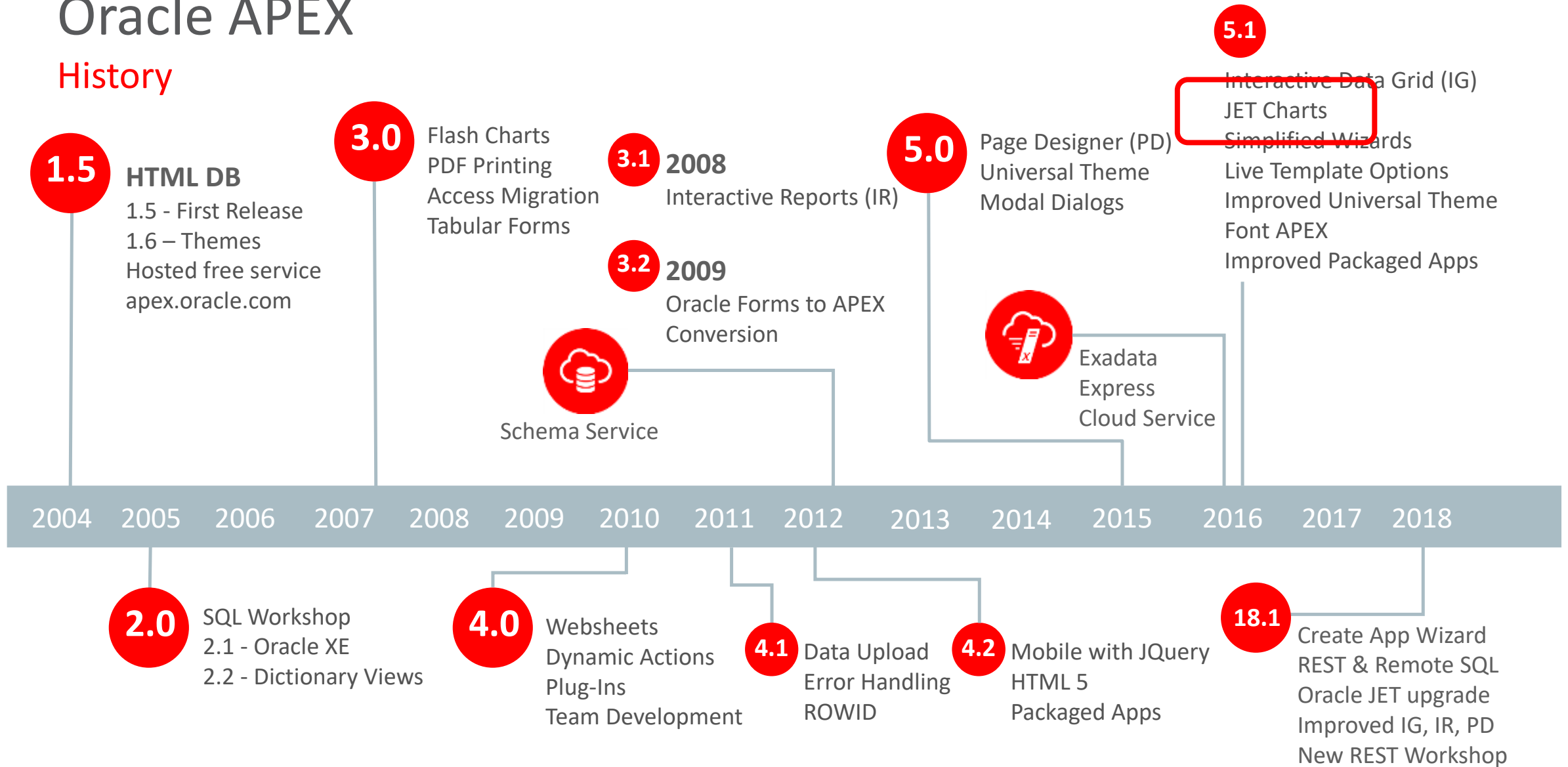


EBS and APEX Integration

An abstract geometric pattern consisting of white lines and dots on a green background. The pattern features several large, overlapping circles and arcs. Small white dots are placed at the intersections of these lines, creating a network-like structure. The lines and dots are distributed across the right side of the image, with a higher density of dots in the upper right quadrant.

Oracle APEX

History



Why APEX?

Runs on the database

Perfect for data centric applications

Low code to high control

No-cost option of the database

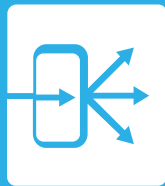
Reuses your SQL and PL/SQL skillset

APEX for Dashboards



Easy to chart using wizards
and models

SQL statements to populate
charts and lists



Drilldown to transactions
from aggregated data

EBS-APEX Integration – Key Elements

- Have a single sign-on engine between EBS and APEX
- Recreate the EBS context in APEX
 - Read function security (Form Function exclusions)
 - Read data security (security profiles, operating unit, MOAC)
- Use APPS synonyms not tables (maybe views, it depends)

EBS-APEX Integration – Other Notes

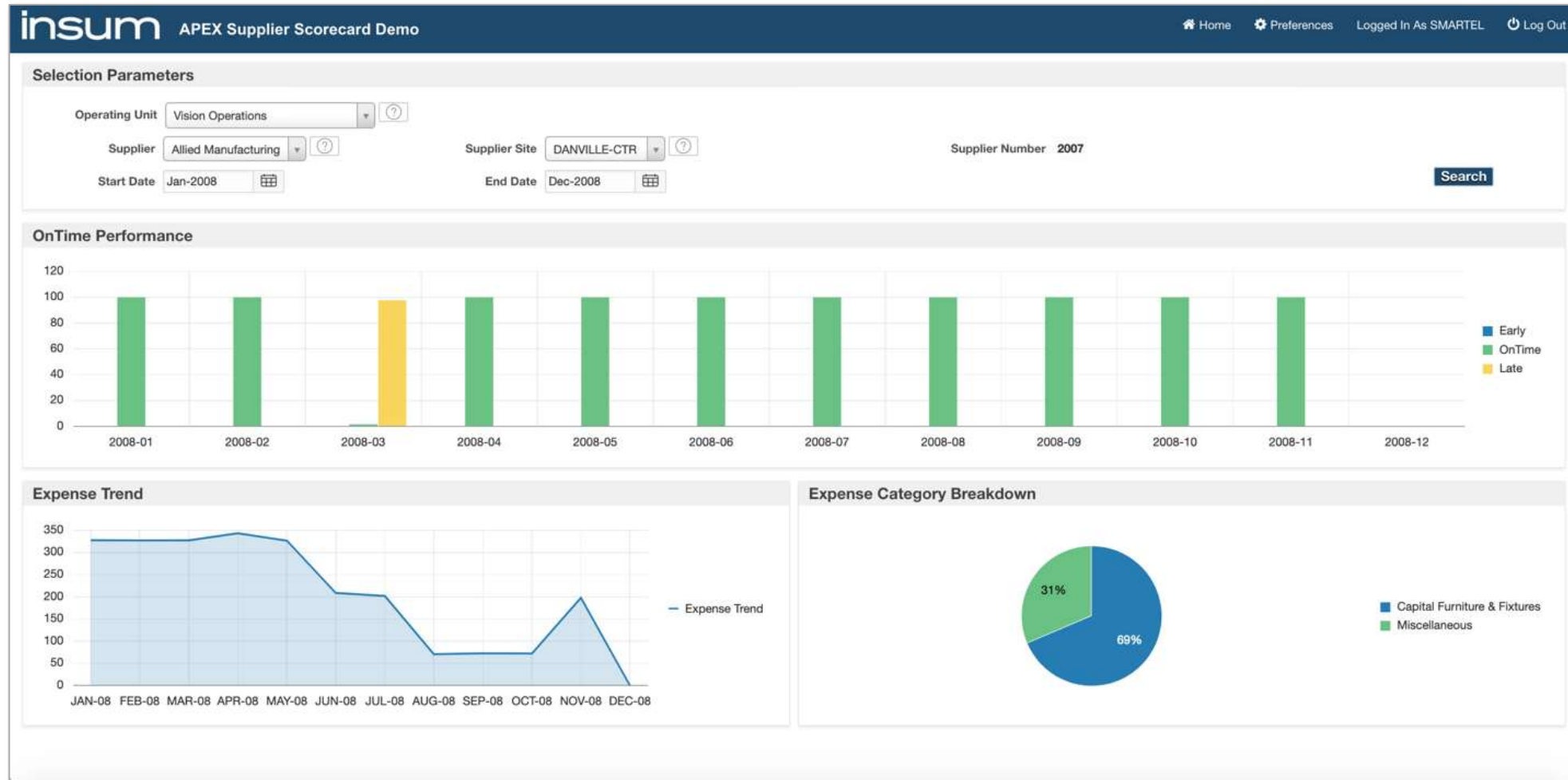
- The version of EBS is irrelevant (11i to R12.2.x)
- The version of APEX is not associated to EBS
- There is no dependencies between EBS patchsets and APEX
- EBS and APEX have different upgrade cycles
- APEX is certified against the database not an EBS version

Application Express (APEX) Database and Web Server Certification Reference (Doc ID 1344948.1)

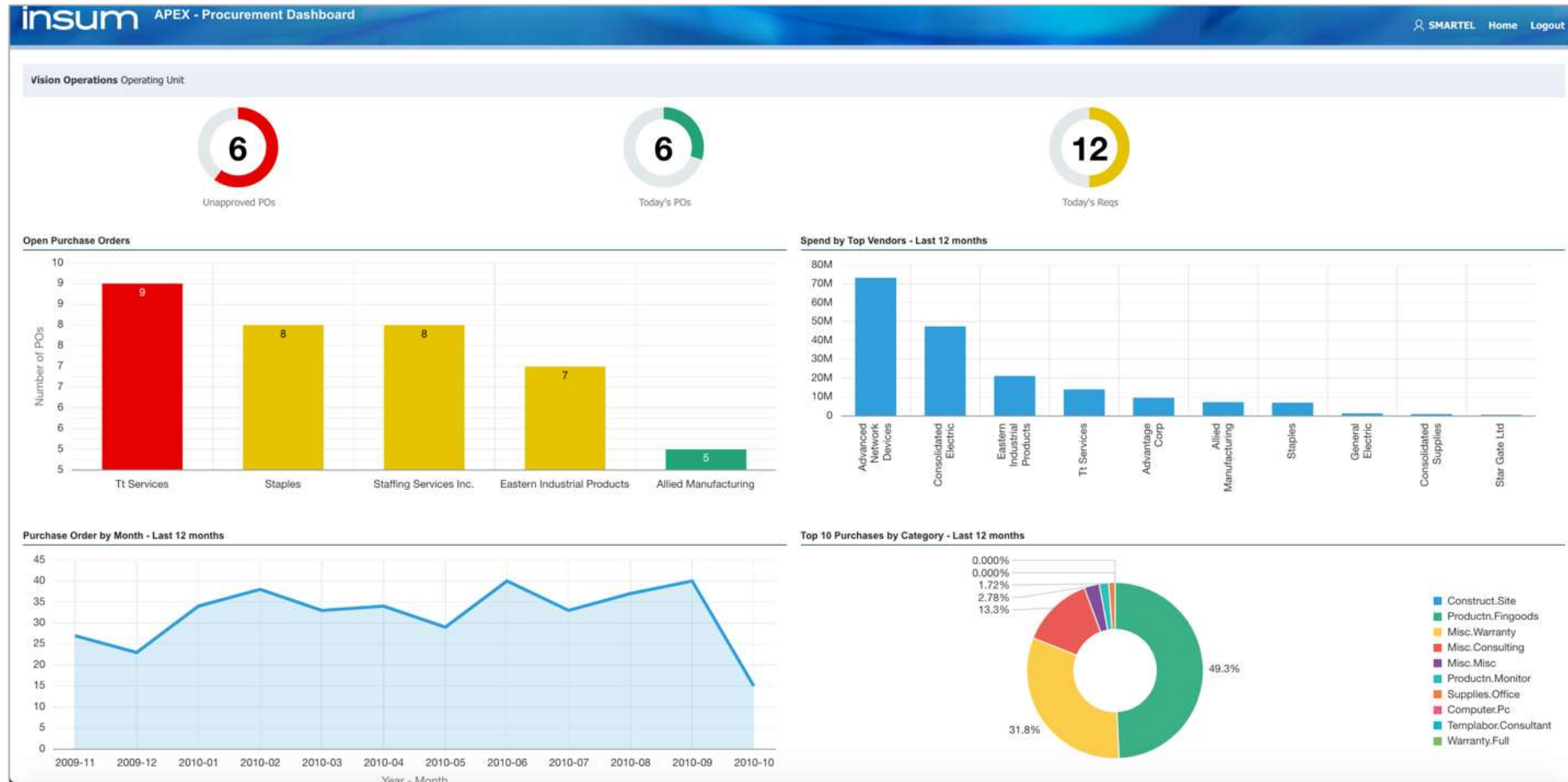
Develop a Quick EBS Dashboard



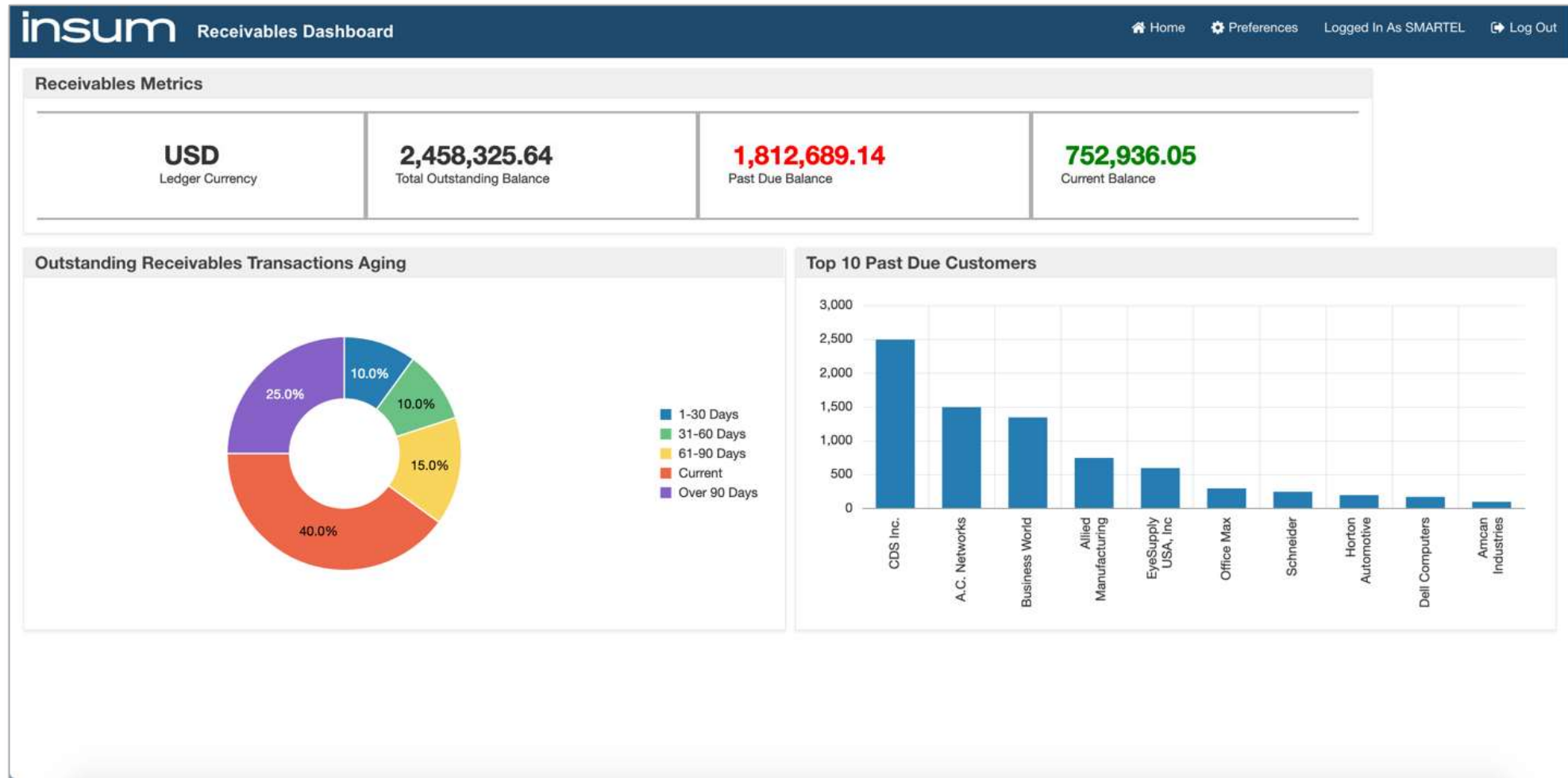
EBS-APEX Integration – Other Notes



EBS Dashboards Examples – Procurement Dashboard



EBS Dashboards Examples – Receivables Dashboard



EBS Dashboards Examples

These are all examples you can do
today with APEX.

EBS Dashboards

Our Example

System Administrator Dashboard

EBS Dashboards

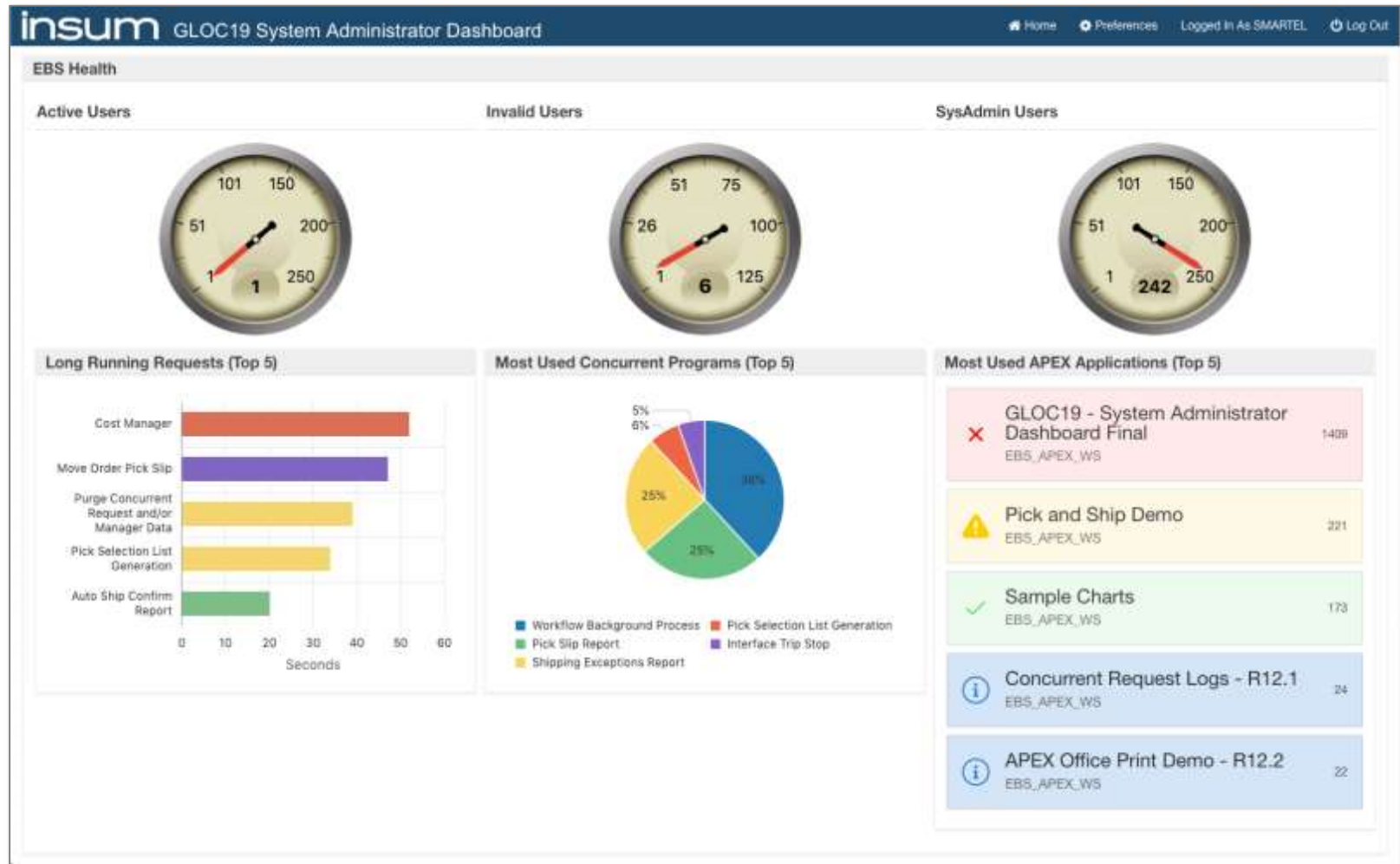
Pre requisites for developing this demo application:

- EBS R12.2.6 and APEX 18.1 are used
- The Insum SSO Pro is used for the single sign-on
- An empty APEX application was copied from an Insum application template
- An EBS Form Function has been created to access the APEX application
- The Form Function has been added to a menu
- The menu is assigned to a custom responsibility

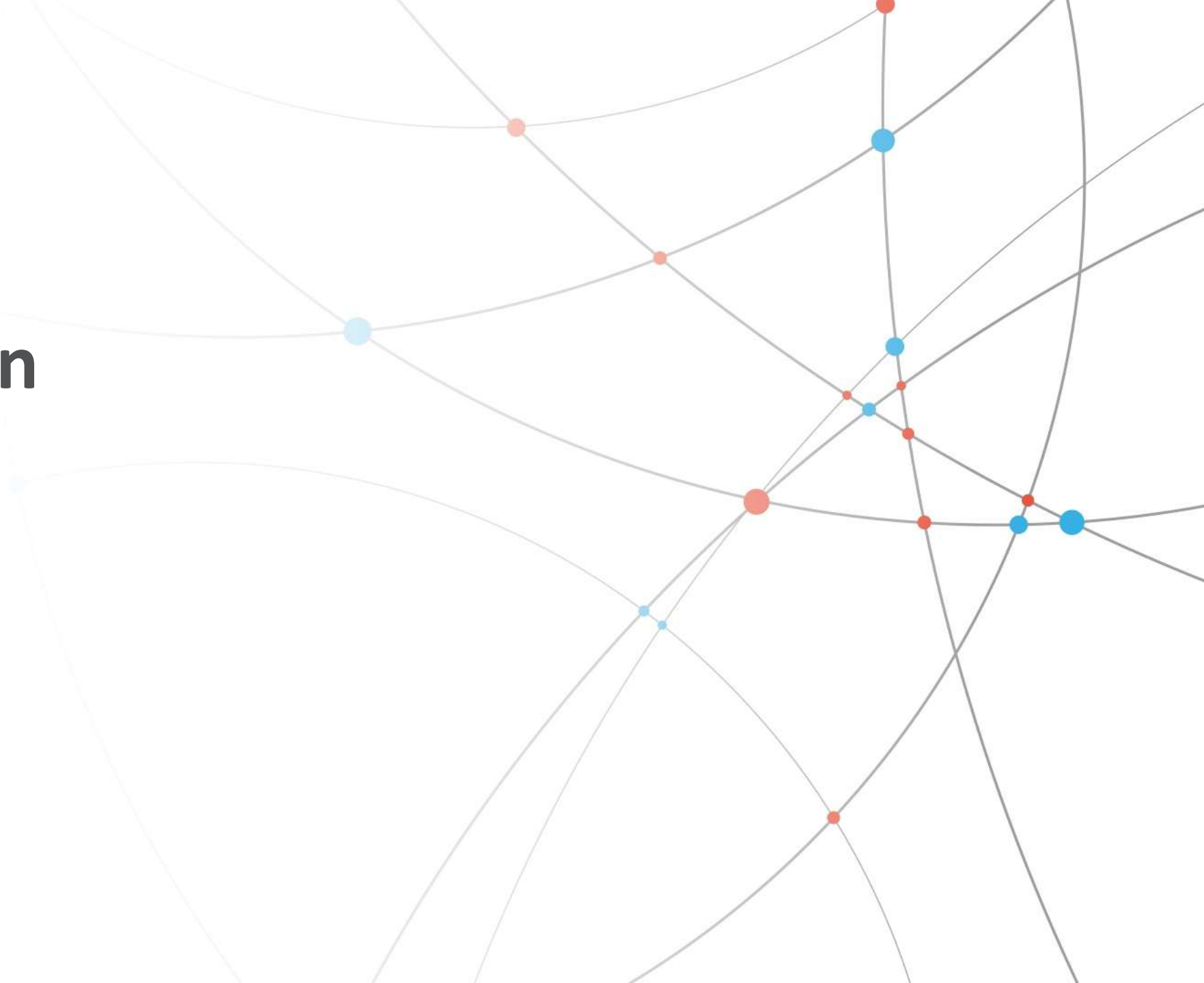
Universal Theme Cookbook: <https://apex.oracle.com/ut/>

APEX Web Site: <https://apex.oracle.com/en/learn/tutorials/>

EBS Dashboards – Result

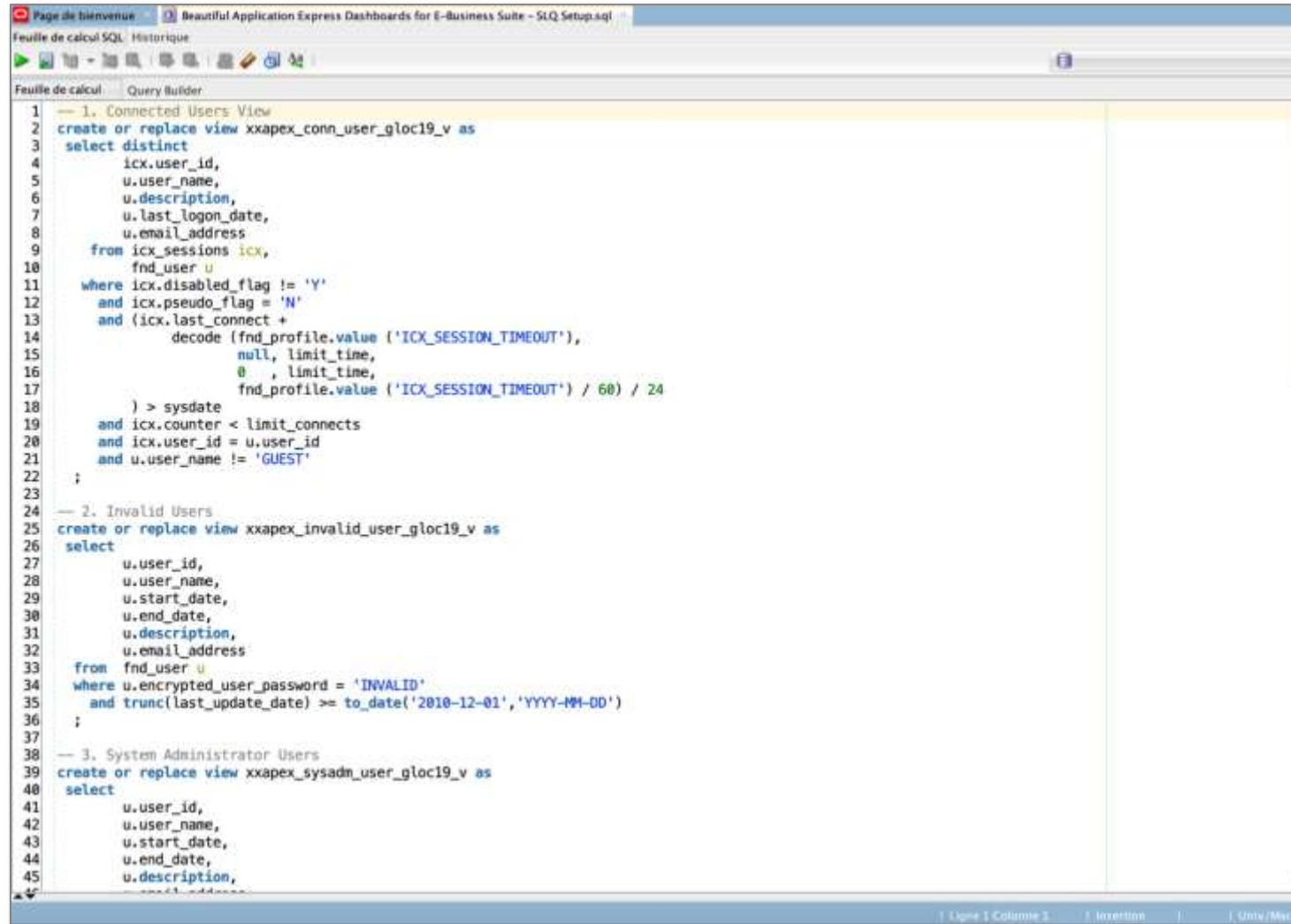


Demo – Let's Build an Application



EBS Dashboards – Prerequisites

Create views



```
1  -- 1. Connected Users View
2  create or replace view xxapex_conn_user_gloc19_v as
3  select distinct
4      icx.user_id,
5      u.user_name,
6      u.description,
7      u.last_logon_date,
8      u.email_address
9  from icx_sessions icx,
10      fnd_user u
11  where icx.disabled_flag != 'Y'
12        and icx.pseudo_flag = 'N'
13        and (icx.last_connect +
14              decode (fnd_profile.value ('ICX_SESSION_TIMEOUT'),
15                      null, limit_time,
16                      0, limit_time,
17                      fnd_profile.value ('ICX_SESSION_TIMEOUT') / 60) / 24
18              ) > sysdate
19        and icx.counter < limit_connects
20        and icx.user_id = u.user_id
21        and u.user_name != 'GUEST'
22  ;
23
24  -- 2. Invalid Users
25  create or replace view xxapex_invalid_user_gloc19_v as
26  select
27      u.user_id,
28      u.user_name,
29      u.start_date,
30      u.end_date,
31      u.description,
32      u.email_address
33  from fnd_user u
34  where u.encrypted_user_password = 'INVALID'
35        and trunc(last_update_date) >= to_date('2010-12-01','YYYY-MM-DD')
36  ;
37
38  -- 3. System Administrator Users
39  create or replace view xxapex_sysadm_user_gloc19_v as
40  select
41      u.user_id,
42      u.user_name,
43      u.start_date,
44      u.end_date,
45      u.description,
```

EBS Dashboards – Prerequisites

Create APEX Application (from template)

Create Application

✓

●

Identify Copy Target

*

Copy From

110122. Insum - EBS-APEX Starter App - R12.2

?

*

Copy To

GLOC19 System Administrator Dashboard Demo

?

*

New Application ID

158

?

Copy Supporting Object Definitions

Yes

No

?

EBS Dashboards – Prerequisites

Create Insum SSO Partnership

Insum - APEX SSO Administration - Partner Details

SSO with EBS * ☒ ?

Partner Name * ?

Partner Key * ?

APEX Instance URL * ?

Switch Timeout * ?

APEX New Session * ☒ ?

Application Usage

?

APEX Target Application

Application ID * ?

Public Page ID * ?

Default Page ID * ?

Cancel Delete Save

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EBS Dashboards – Prerequisites

The image displays three overlapping screenshots of the Oracle APEX 'Form Functions' configuration window, illustrating the prerequisites for EBS Dashboards.

Top Screenshot (Description Tab):

Function	User Function Name	Description
XXGLOC19_SYSADMIN	XXAPEX GLOC19 – SysAdmin Dashb	SysAdmin Dashboard – GLOC 19 Demo

Middle Screenshot (Properties Tab):

Function	Type	Maintenance Mode Support	Context Dependence
XXGLOC19_SYSADMIN	SSWA.jsp function	None	Responsibility

Bottom Screenshot (Web HTML Tab):

Function	HTML Call	MDS Reference Path
XXGLOC19_SYSADMIN	xxapex_sso_callapex.jsp?partner_key=GLOC19_SYSADMIN	

GWY.jsp?targetAppType=APEX&p=150:1:::EBS_RESP_ID,EBS_APP_ID,EBS_SEC_GROUP:[RESPONSIBILITY_ID],[RESP_APPL_ID],[SECURITY_GROUP_ID]

EBS Dashboards – Prerequisites

Menu: XXAB_APEX_EBS_SYSADMIN [View Tree...](#)

User Menu Name: XXAB EBS System Administrator

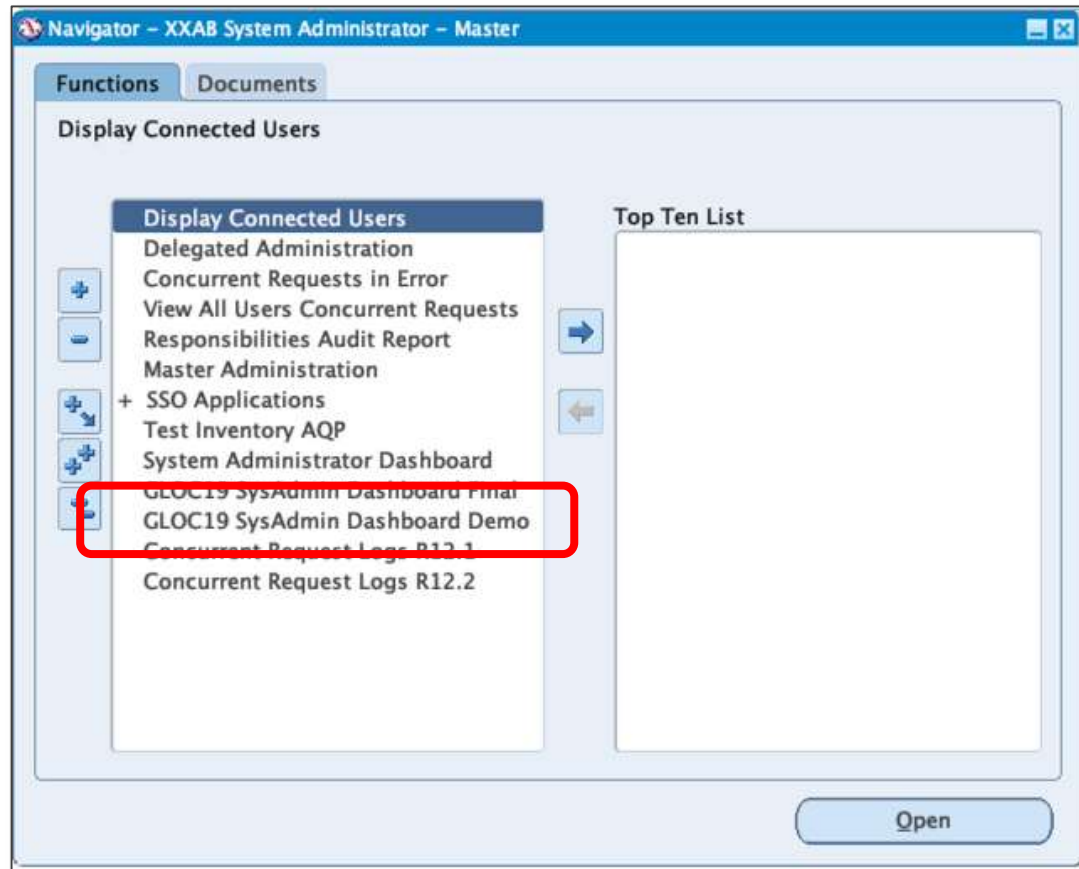
Menu Type: Standard

Description: EBS System Administrators Extension

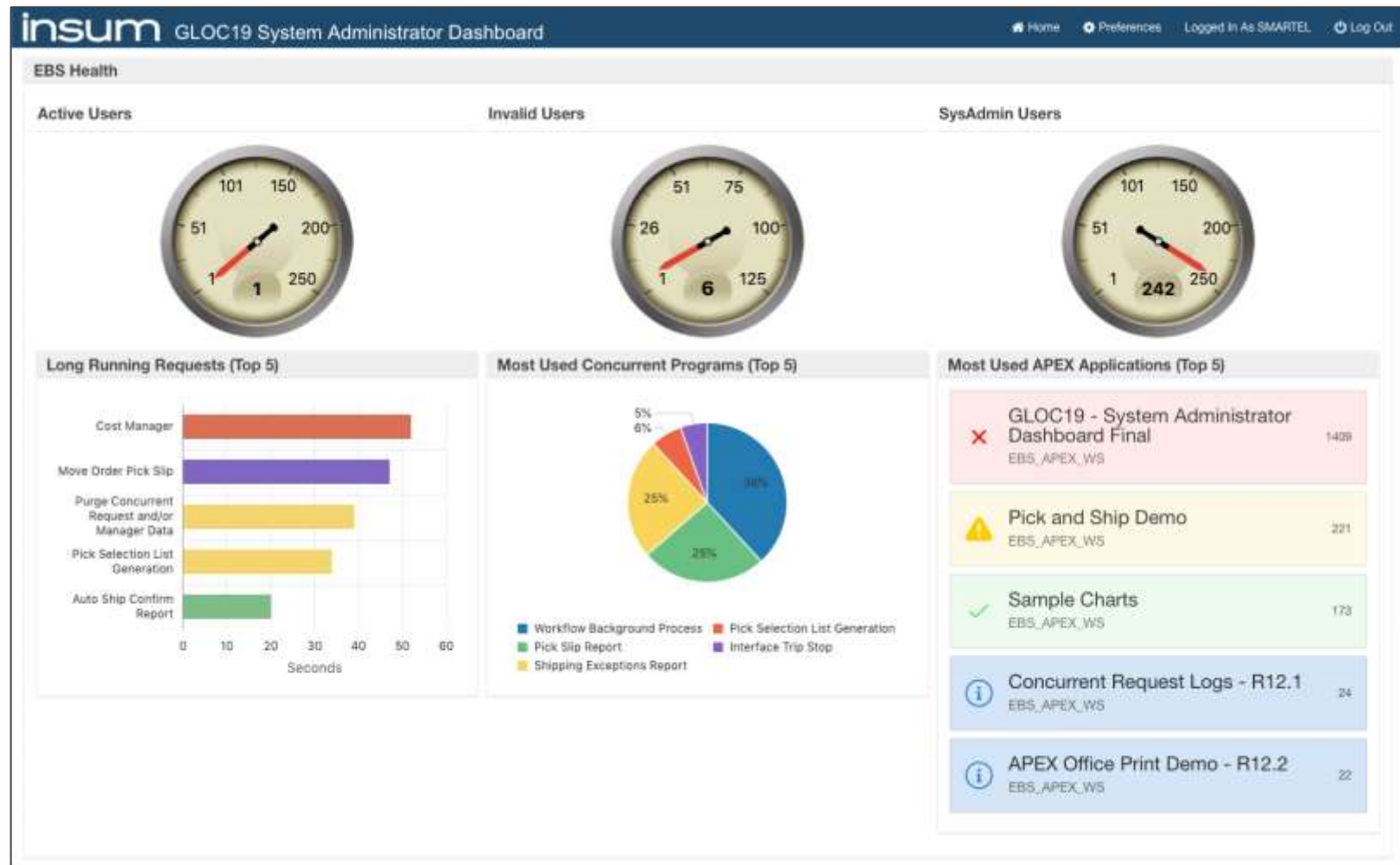
Icon:

Seq	Prompt	Submenu	Function	Description	Grant
110	GLOC19 SysAdm		XXAPEX GLOC19 - SysA	GLOC19 APEX Demo Dashboard	<input checked="" type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>

EBS Dashboards – Prerequisites



EBS Dashboards – Result



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