

QSS Advanced Reporting Platform

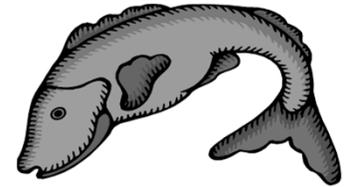
Webinar

October 3, 2013

○ QSS Advanced Reporting Platform

Topics to be covered

- QARP?
 - QSS Advanced Reporting Platform
- QSS online data store
 - Accessible with generic tools
- Jaspersoft
 - Business Intelligence tool
 - Simple Ad hoc reporting
 - charting, crosstabs, and dashboards
 - Complex report generation, Output capability to variety of formats including PDF, HTML, Excel, RTF, ODT, CSV, and more
 - Robust scheme of role based permissions



QARP

Accessible data combined with Jaspersoft's Business Intelligence Package

- Consists of three components...

1. Your data

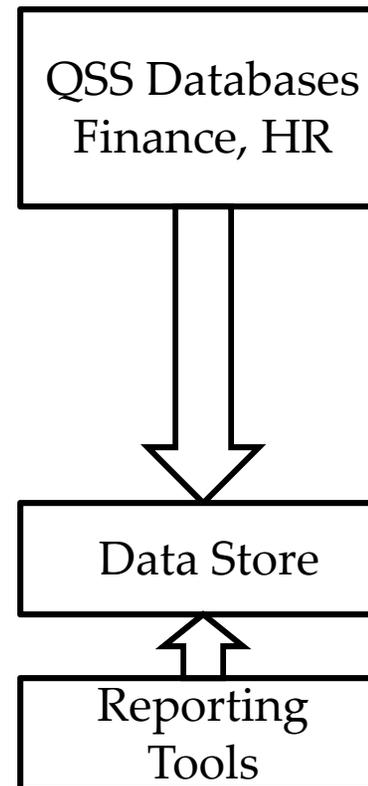
- Finance data
- HR information
 - Employee demographic data
 - Credentials
 - Leave records
- Payroll
 - Payroll Deductions
 - Payroll Deduction History
 - Payroll History
 - Retirement Reporting History
- Fixed Assets

2. Online data store

- De-normalized data from QSS databases

3. Jaspersoft

- Business Intelligence Reporting tool



QSS Online Data Store

- Database designed for ease of data access
 - De-normalized data reduces needs for Joins
 - Isolated from production data to avoid contention of server resources
 - Available for Version H, and Version L

Jaspersoft

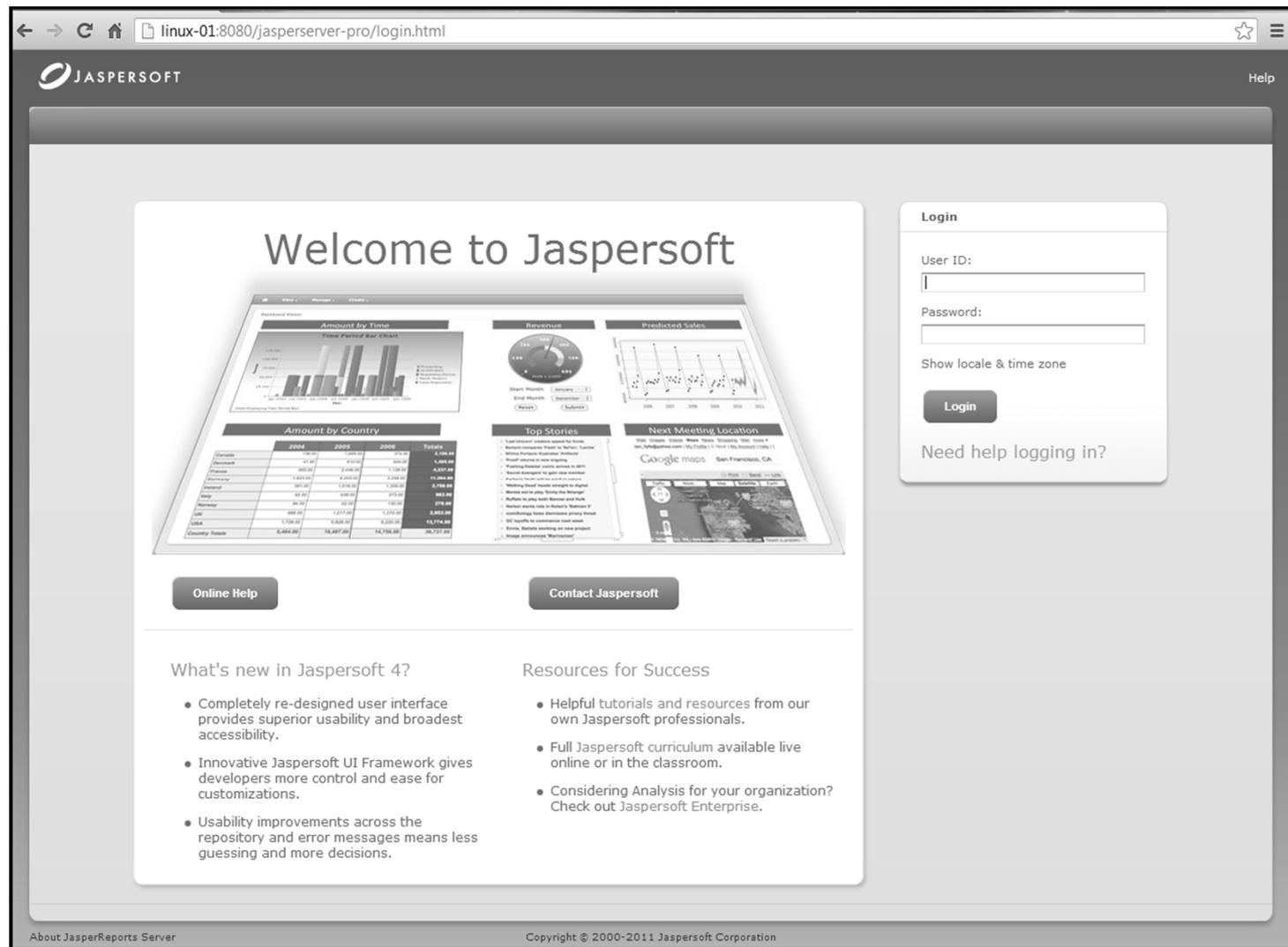
- “The World’s Most Widely Used Business Intelligence Software.”*
- Part of the open source community
- In the same market space as
 - IBM Cognos Business Intelligence
 - Oracle Hyperion
 - SAP BusinessObjects
- Java based reporting tool
- Can be imbedded in Java-EE and Web based applications
- Report definitions make use of xml (jrxml) files

* According to Jaspersoft’s website, so it must be true!

Benefits

- Ad hoc reporting
- Wider access to information
- Friendly user interface for casual users
- Ability for analysts to create sophisticated reports, charts, crosstabs, and dashboards to meet local needs via iReport

Web Interface Login Page



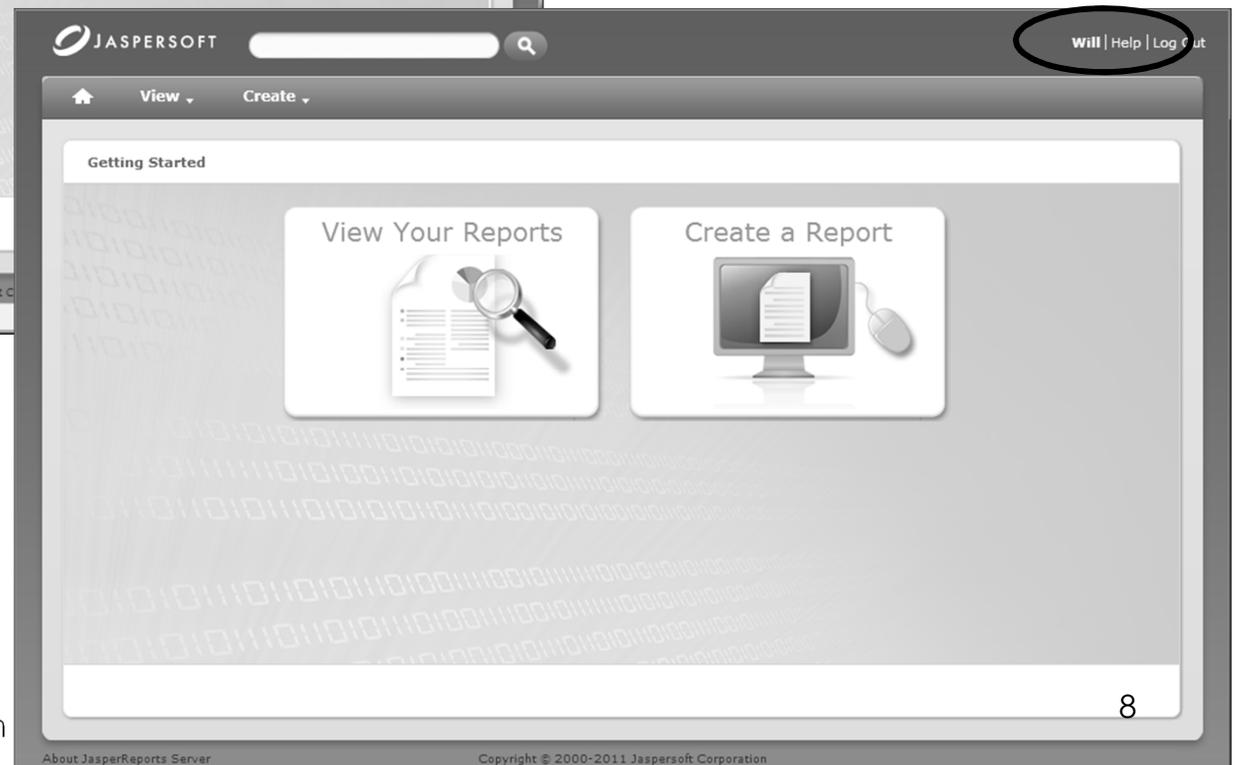
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- QSS Advanced Reporting Platform

Using the Web Interface



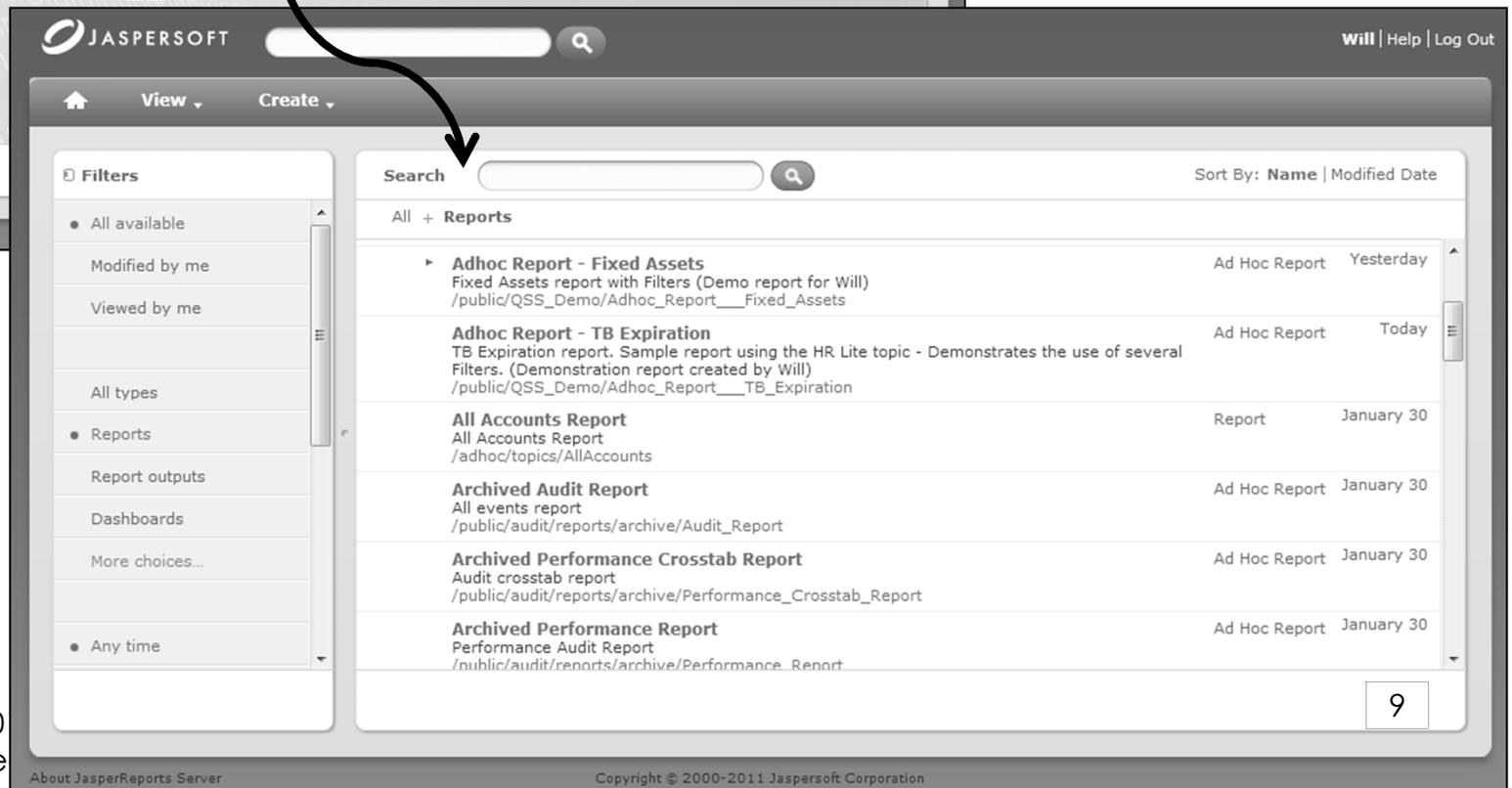
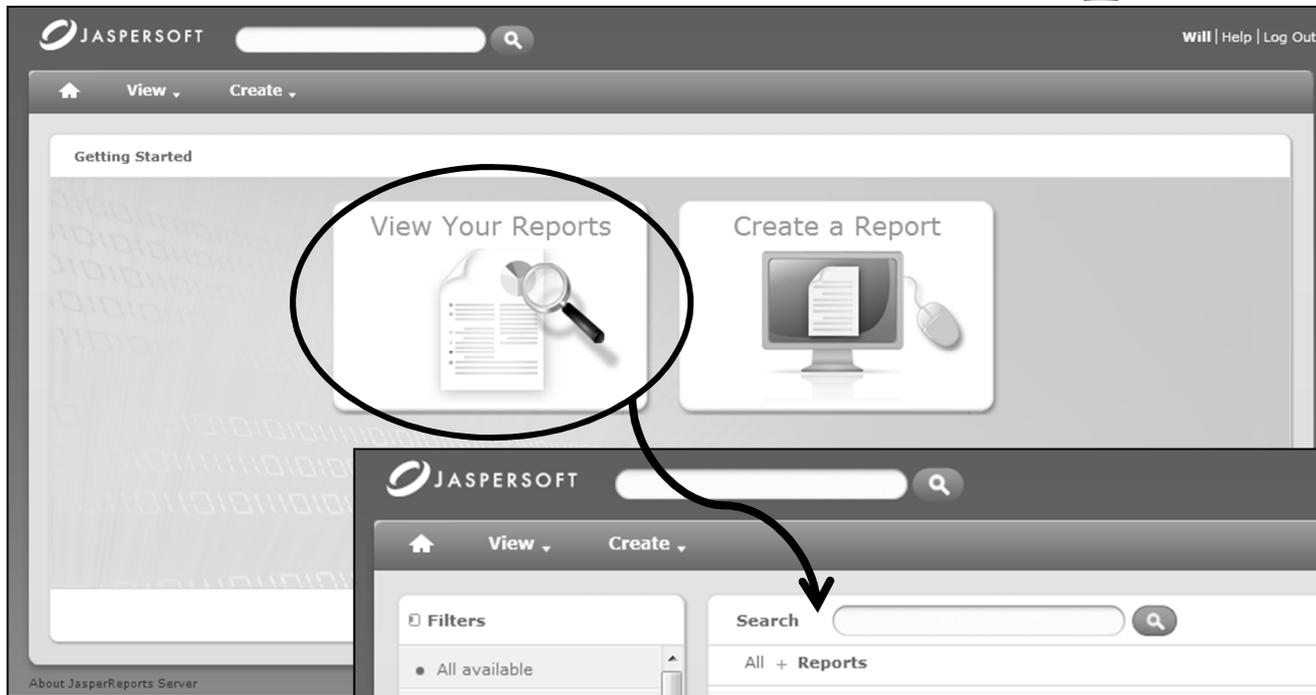
Administrator

Consumer



- October 3, 2013
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List of Reports

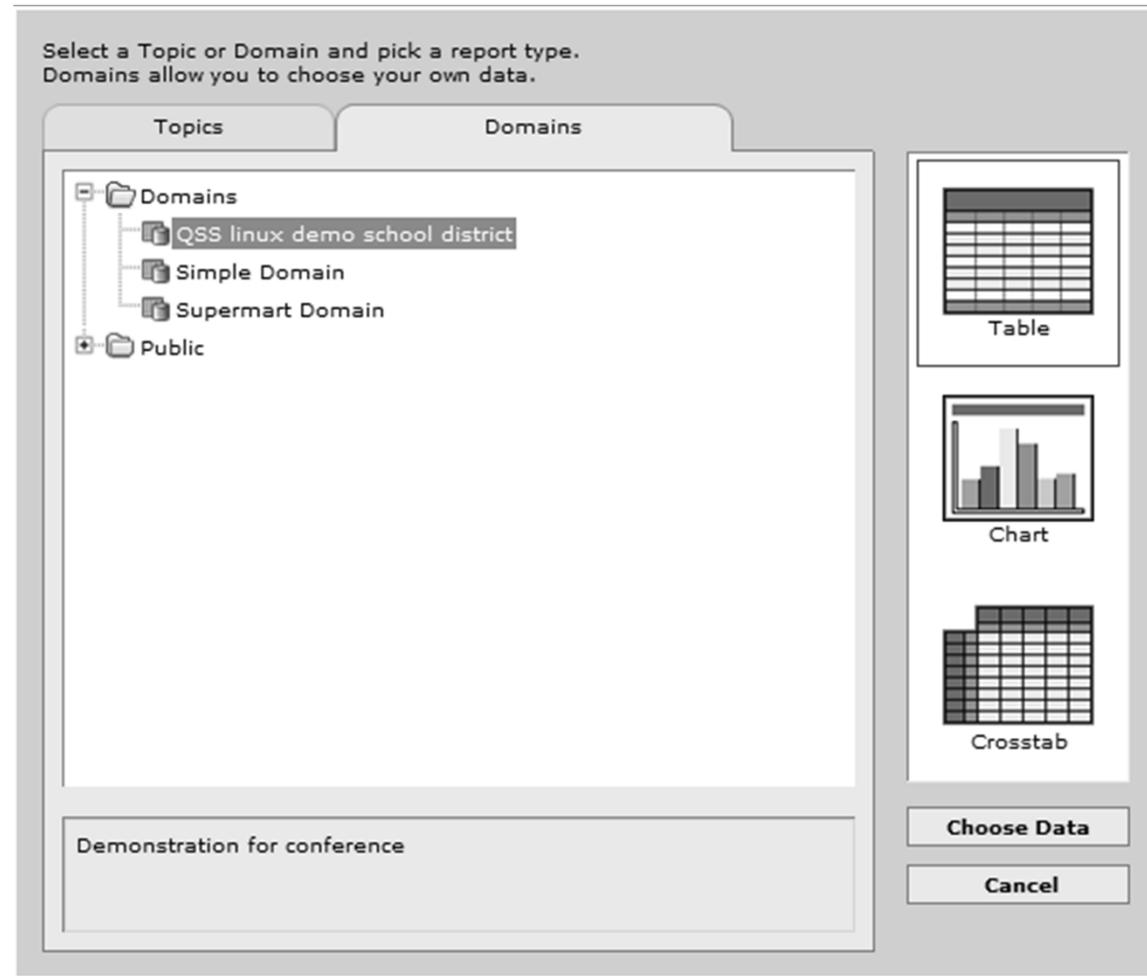


○ October 3, 20
QSS Advance

Creating an ad hoc report

Domains define which tables/columns are available and allow ordering and labeling of tables/columns.

Choose whether this will be a report, chart, or a crosstab.



Select items to include

- Can select entire table, or individual fields.



Choose Ad Hoc Data ● DATA > ● FILTERS > ● DISPLAY >

Select a domain: /Domains/QSS linux demo school ▾

Choose items to include in your report:

	Selected it
<input type="checkbox"/> public_budget_development	
<input type="checkbox"/> public_credential	
<input type="checkbox"/> public_ded_history	
<input type="checkbox"/> public_fixed_asset	
<input type="checkbox"/> public_pay_deductions	
<input type="checkbox"/> public_pay_history	
<input type="checkbox"/> public_pc_assign	
<input checked="" type="checkbox"/> public_per_pay	
<input type="checkbox"/> ann_base_date	
<input type="checkbox"/> appel	
<input type="checkbox"/> appl_ssn	
<input type="checkbox"/> area_code	
<input type="checkbox"/> audit_date	
<input type="checkbox"/> audit_id	
<input type="checkbox"/> audit_time	
<input type="checkbox"/> bilingual	
<input type="checkbox"/> birth_date	

Navigation buttons: > < <<

Design the report layout

Drag fields from the left area onto the report area. Right click fields to indicate options such as sorting /grouping /filtering

Domain: (change...)
QSS linux demo school district

(select...)

- public_per_pay
 - bu_no
 - bu_no_name
 - emp_type
 - emp_type_name
 - ethnic
 - ethnic_name
 - extref_no
 - first_name
 - hire_date
 - last_name
 - work_loc1
 - work_loc1_name
 - zip_code
- Spacer

Chart Table Crosstab Sample Data

Sample ad hoc report

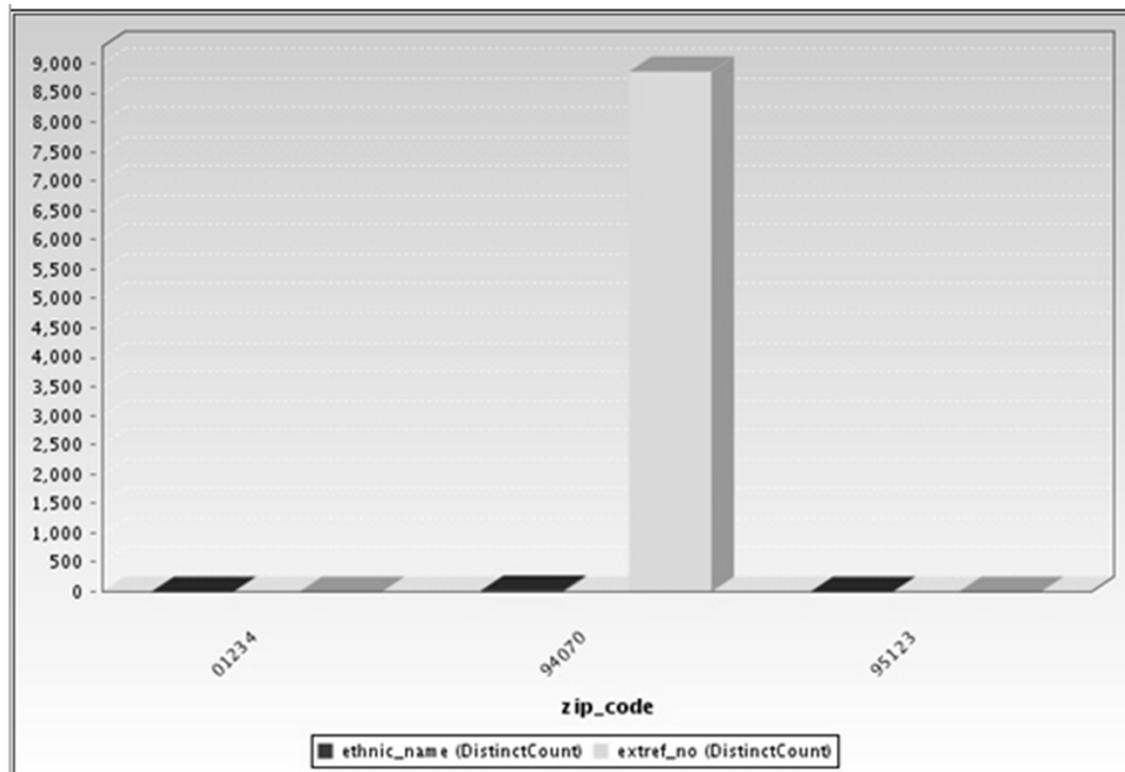
Last Name	First Name	Ref No.	Bargaining Unit	Employee Type	Ethnic
ADAMS	CAROL	100207	QSS PUPIL PERSONNEL ASSOC	CERTIFICATED, PERMANENT	WHITE ((
ADAMS	CYNTHIA	101814	QSS PUPIL PERSONNEL ASSOC	CERTIFICATED, PERMANENT	WHITE ((
ADAMS	DENISE	103123	QSS PUPIL PERSONNEL ASSOC	CERTIFICATED, PERMANENT	WHITE ((
ADAMS	DONNA	107544	QSS PUPIL PERSONNEL ASSOC	CERTIFICATED, PERMANENT	WHITE ((
ADAMS	GWEN	105597	QSS PUPIL PERSONNEL ASSOC	CERTIFICATED, PERMANENT	ASIAN - ((
ADAMS	MARY	102091	QSS PUPIL PERSONNEL ASSOC	CERTIFICATED, TEMPORARY	WHITE ((
ADAMS	MARY JO	108373	QSS PUPIL PERSONNEL ASSOC	CERTIFICATED, PERMANENT	WHITE ((
ADAMS	MICHELLE	108511	QSS PUPIL PERSONNEL ASSOC	CERTIFICATED, PROB 2	FILIPINO
BUSH	ANNELLA	100661	QSS PUPIL PERSONNEL ASSOC	CERTIFICATED, PERMANENT	WHITE ((
BUSH	CAROLE	102751	QSS PUPIL PERSONNEL ASSOC	CERTIFICATED, PERMANENT	WHITE ((
BUSH	DEBORA	106075	QSS PUPIL PERSONNEL ASSOC	CERTIFICATED, PERMANENT	WHITE ((
BUSH	DIANNE	100682	QSS PUPIL PERSONNEL ASSOC	CERTIFICATED, PERMANENT	WHITE ((
BUSH	EMILIE	105231	QSS PUPIL PERSONNEL ASSOC	CERTIFICATED, PERMANENT	WHITE ((

Sample Crosstab

- Sample cross tab. Arrows expand / collapse row and column summaries

		bu_no_name	▶ UNASSIGNED	▼ QSS EDUCATION ASSOCIATION				
zip_code	ethnic_name	emp_type_name	emp_type_name Totals	CERTIFICATED, PERMANENT	CERTIFICATED, PROB 2	CERTIFICATED, PROB 1	CERTIFICATED, TEMPORARY	CERTIFICATED, PROB 1B
▼ 94070		# Ref No.	4,750	0	0	0	0	0
	WHITE (CAUCASIAN)		492	1,064	83	76	26	17
	HISPANIC OR LATINO		206	130	25	13	3	2
	ASIAN - OTHER		54	18	0	2	2	0
	AFRICAN AMERICAN		31	11	3	3	0	0
	FILIPINO		12	11	0	2	11	1
	ASIAN - JAPANESE		2	24	1	1	0	1
	AMERICAN INDIAN		2	13	0	1	2	0

Sample bar chart



Getting started

- Define the datasource
- Create Domain that uses the data source

The screenshot displays the JasperSoft web interface for editing a domain. The top navigation bar includes the JasperSoft logo, a search box, and tabs for Home, View, Manage, and Create. The main content area is titled 'Edit Domain' and features two breadcrumb paths: 'DATA and DESIGN' and 'RESOURCES'. The interface is divided into several sections:

- Data Source:** A section with a 'Select from Repository:' label, a text input field containing '/datasources/qarp-postgresql', and a 'Browse...' button.
- Design:** A section with 'Edit' and 'Upload' tabs. Below the tabs, a message reads 'File has been created. Launch Designer again to edit.' and a 'Launch Domain Designer...' button is present.
- Properties:** A section with three fields: 'Display Name:' (containing 'QSS linux demo school district'), 'Location:' (containing '/Domains' and a 'Browse...' button), and 'Description (optional):' (containing 'Demonstration for conference').

At the bottom right, there are four buttons: 'Cancel', '< Back', 'Next >', and 'Save'.

Role based permissions

- Access to tables can be defined by Domain
- Access to Domains limited by Permissions

Assign Permissions by Role
by Role | by User

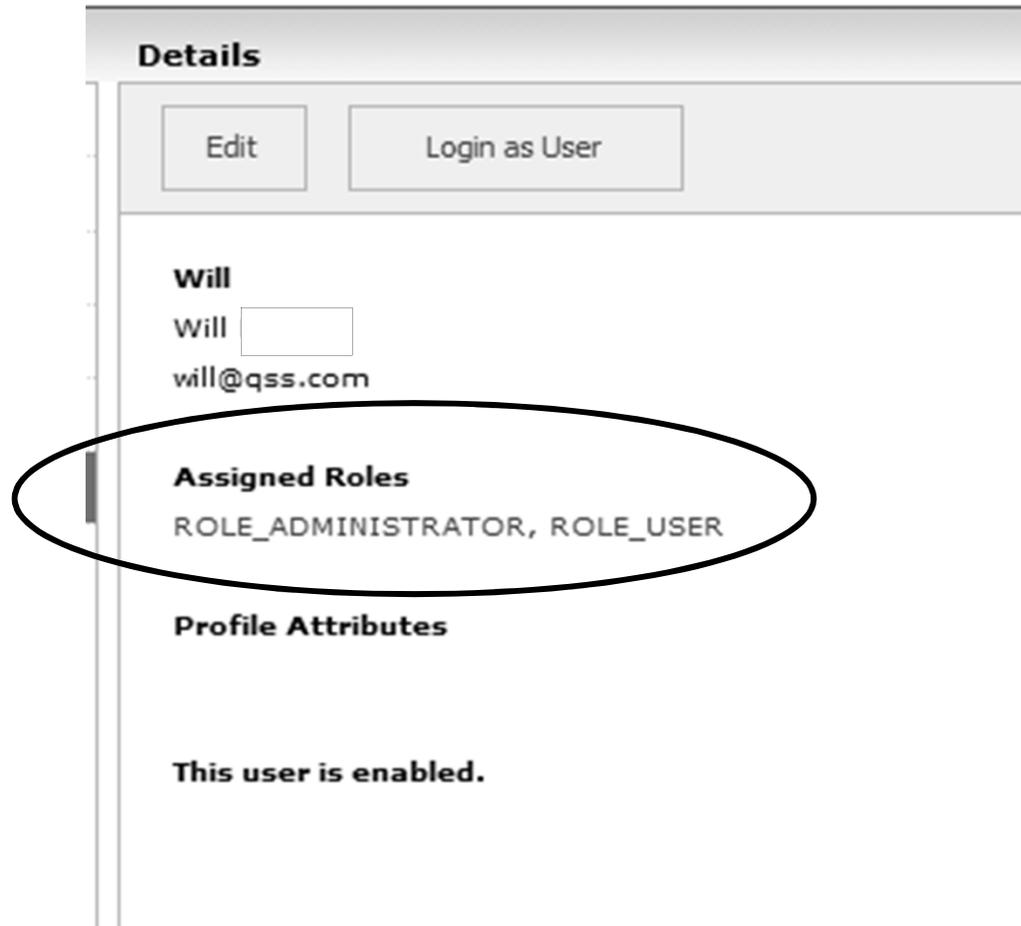
Permissions for: /Domains/QSS

Role Name	Permission Level
ROLE_USER	Read Only *
ROLE_ADMINISTRATOR	Administer *
ROLE_ANONYMOUS	Read Only
ROLE_SUPERMART_MANAGER	Read Only
ROLE_DEMO	Read Only
ROLE_LIMITED (organization_1)	Read Only
qssHRlimited (organization_1)	Read Only

* indicates inherited permission level

Role named "Role_User" has Read Only access to Domain named "QSS"

Assign Users to Roles



The image shows a screenshot of a user management interface. At the top, there is a header bar with the title "Details". Below this header, there are two buttons: "Edit" and "Login as User". The main content area displays the user's name "Will" next to a text input field, and the email address "will@qss.com". Below the email, the section "Assigned Roles" is highlighted with a black oval, showing the roles "ROLE_ADMINISTRATOR, ROLE_USER". Underneath, there is a section for "Profile Attributes" and a status message "This user is enabled."

Details

Edit Login as User

Will
Will
will@qss.com

Assigned Roles
ROLE_ADMINISTRATOR, ROLE_USER

Profile Attributes

This user is enabled.

Folders and Reports also by Permission

- This example is for a specific report. The asterisks indicate that permissions were inherited from a higher level.

Assign Permissions by Role
by Role | by User

Permissions for: **/reports/qssVendHist**

Role Name	Permission Level
ROLE_USER	Read + Write + Delete *
ROLE_ADMINISTRATOR	Administer *
ROLE_ANONYMOUS	No Access *
ROLE_SUPERMART_MANAGER	No Access *
ROLE_DEMO	No Access *
ROLE_LIMITED (organization_1)	Read Only *
qssHRlimited (organization_1)	Read Only *

* indicates inherited permission level

iReport – Desktop tool for developing reports

About

Designer for JasperReports 3.7.1.1

iReport PROFESSIONAL 3.7.1.1

JASPERSOFT

NetBeans IDE and NetBeans Platform are based on software from netbeans.org, which has been dual licensed under the Common Development and Distribution License (CDDL) and the GNU General Public License version 2 with Classpath exception. For more information please visit www.netbeans.org.

Product Version: iReport Professional 3.7.1.1
Java: 1.6.0_24; Java HotSpot(TM) Client VM 19.1-b03
System: Windows 7 version 6.1 running on x86; UTF-8; en_US (ireportpro)
Userdir:

Close

Welcome Window

JASPERSOFT

Welcome to iReport

Recent reports

file_1298412868592

Follow these three steps to create your first report

Step 1: Create a database connection or setup a data source. Click on the icon to run the connection setup wizard.

Step 2: Create a new report. Click on the icon to run the report wizard.

Step 3: Press the Preview button (in the designer window tab) to run and preview your report.

Spotlight

NEW

JasperReports Professional 4.0

Resource Center

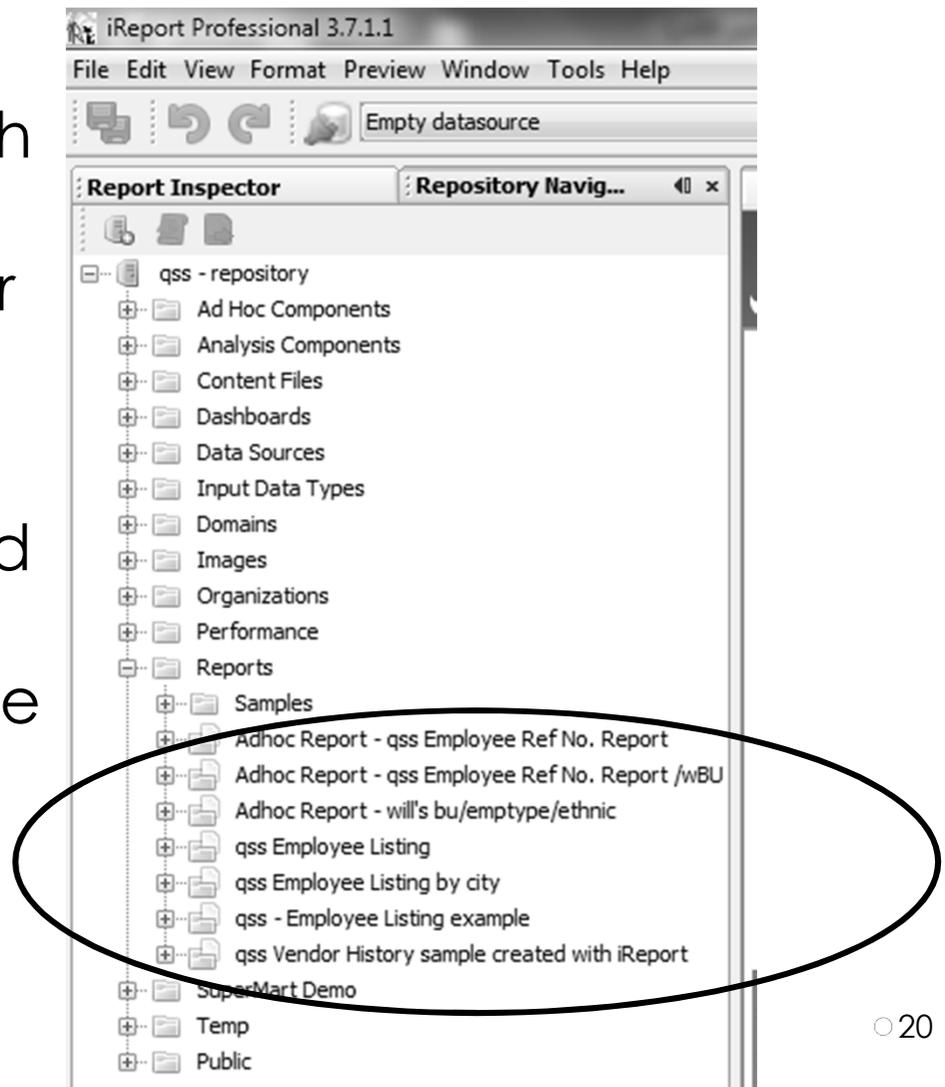
- JasperForge.org
- iReport Home Page
- iReport forum
- iReport bug tracker

Report Problems Window

iReport output

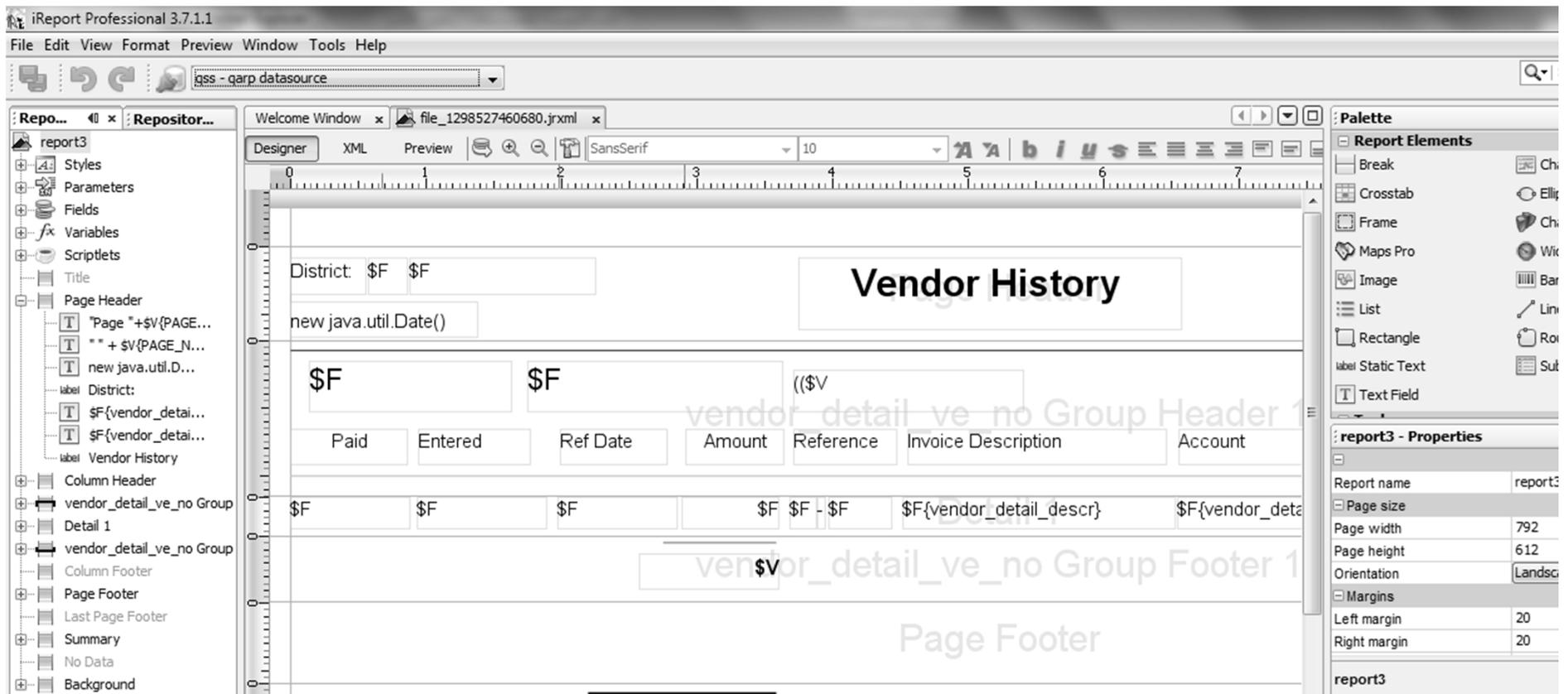
iReport can access the Jaspersoft repository

- Reports developed with iReport can be published to the Jasper repository
- Reports developed and saved via the web interface are accessible to iReport



iReport – full IDE for report development

- May be perplexing to the newcomer...



How is QARP different from QORDS?

- QORDS is a separate QSS product that also creates de-normalized databases for Version H or Version L data.
- QORDS is not a pre-requisite for using QARP
- The QARP data store is a superset of QORDS
 - QORDS consists of separately licensed modules by product area
 - QORDS maintained separate databases for each licensed module
 - QORDS does not include any reporting tools
 - **QARP is not licensed by individual product area**
 - **QARP maintains a single data store**
 - **QARP comes with Jaspersoft reporting tools**



Here's a peek at the QARP database with dbvisualizer...



Object View SQL Commander

Tables: TABLE
qarp linux-demo 40/qarp40/public/TABLE

Tables References

table_cat	table_schem	table_name	table_type	remark
(null)	public	absence_log	TABLE	(null)
(null)	public	account_detail	TABLE	(null)
(null)	public	apy_accounts	TABLE	(null)
(null)	public	budget_development	TABLE	(null)
(null)	public	credential	TABLE	(null)
(null)	public	ded_history	TABLE	(null)
(null)	public	fixed_asset	TABLE	(null)
(null)	public	pay_deductions	TABLE	(null)
(null)	public	pay_history	TABLE	(null)
(null)	public	pc_assign	TABLE	(null)
(null)	public	per_pay	TABLE	(null)
(null)	public	pers_trans	TABLE	(null)
(null)	public	sal_ben_projection	TABLE	(null)
(null)	public	strs_trans	TABLE	(null)
(null)	public	vendor_detail	TABLE	(null)
(null)	public	vol_deds	TABLE	(null)

Databases Scripts

linux_demo hrspay (29610)

qarp linux-demo 40

- qarp40 (Default)
 - information_schema
 - pg_catalog
 - pg_toast_temp_1
 - public (Default)
 - INDEX
 - SEQUENCE
 - SYSTEM INDEX
 - SYSTEM TABLE
 - SYSTEM TOAST INDEX
 - SYSTEM TOAST TABLE
 - SYSTEM VIEW
 - TABLE
 - absence_log (22306)
 - account_detail (78779)
 - apy_accounts (7191)
 - budget_development (350560)
 - credential (4870)
 - ded_history (46732)
 - fixed_asset (1821)
 - pay_deductions (23413)
 - pay_history (10975)
 - pc_assign (0)
 - per_pay (8868)
 - pers_trans (1635)
 - sal_ben_projection (0)
 - strs_trans (2633)
 - vendor_detail (4063)
 - vol_deds (257)

Qarpe diem?

