QSS Advanced Reporting Platform



Welcome

- In this session we'll explore the Advanced Reporting Platform.
- Presenter:
 - o Will Hoehn, QSS
- Materials:
 - Printed copy of these slides

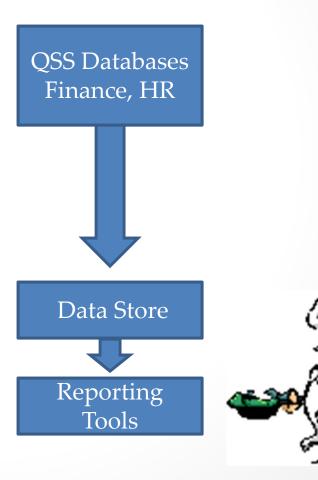
Topics to be covered

- QARP? What's a Qarp
- QSS online data store
 - What about QORDS?
 - Accessing the online data store with generic tools
- Jaspersoft
 - Business Intelligence tool
 - Simple Ad hoc reporting
 - Complex report generation, charting, crosstabs, and dashboards
 - Output capability to variety of formats including PDF, HTML, Excel, RTF, ODT, CSV, and more
 - Role based permissions

QARP

Accessible data combined with Jaspersoft's Business Intelligence Package

- Consists of three components...
 - Your data (QSS databases)
 - Finance data
 - HR information
 - o Employee demographic data
 - Credentials
 - Leave records
 - Payroll
 - o Payroll Deductions
 - o Payroll Deduction History
 - Payroll History
 - o Retirement Reporting History
 - Fixed Assets
 - Online data store
 - Denormalized data from QSS databases
 - Jaspersoft
 - Business Intelligence Reporting tool



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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

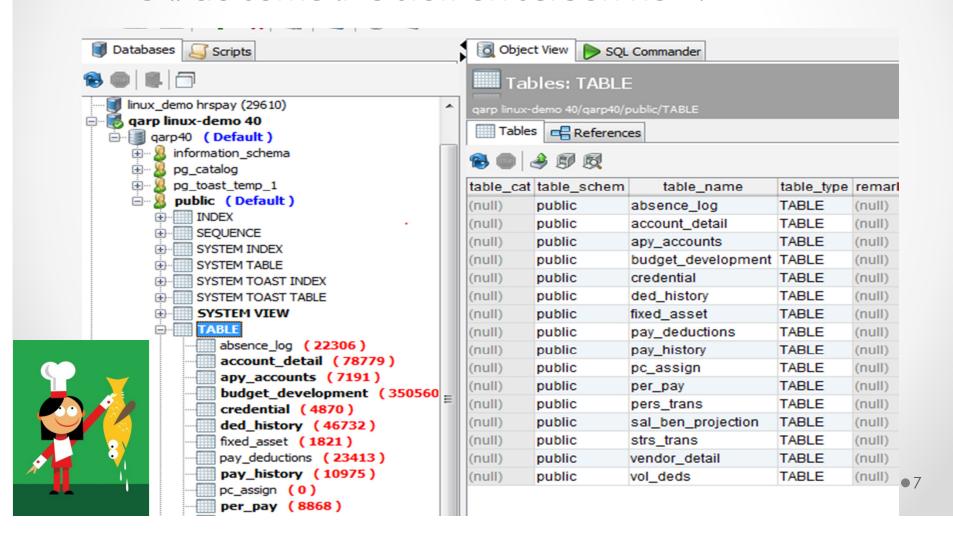
How is QARP different from QORDS?

- 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



Let's take a peak at the QARP database with dbvisualizer...

We'll do some live stuff on screen now!



Jaspersoft

- "The World's Most Widely Used Business Intelligence Software."*
- Part of the open source community
- Play in the same market space as
 - Cognos BI (now owned by IBM)
 - Hyperion (bought out by Oracle)
 - Business Objects (bought out by SAP)
- Java based reporting tool
- Can be imbedded in Java-EE and Web based applications
- Report definitions make use of xml (jrxml) files

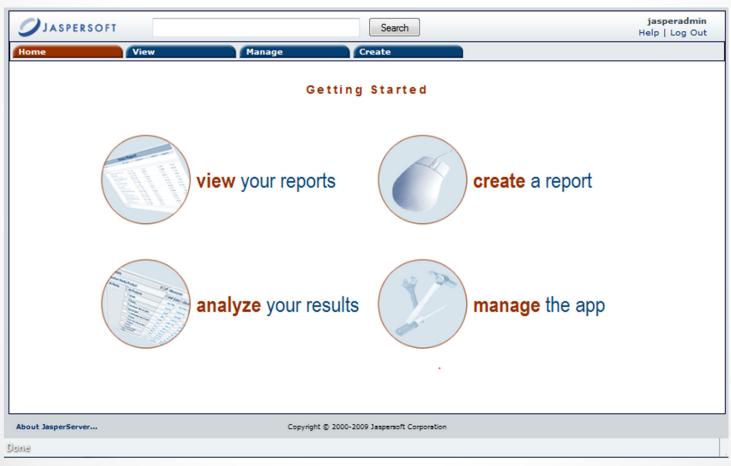
^{*} According to Jaspersoft's website, so it must be true!

Anticipated uses

- Ad hoc reporting
- Disseminate reporting capabilities to a wider set of users
- Friendlier, less intimidating, access to data for casual users
- Ability for analysts to create sophisticated reports, charts, crosstabs, and dashboards to meet local user needs via iReport

Using the Web Interface

We'll conduct a live demo...

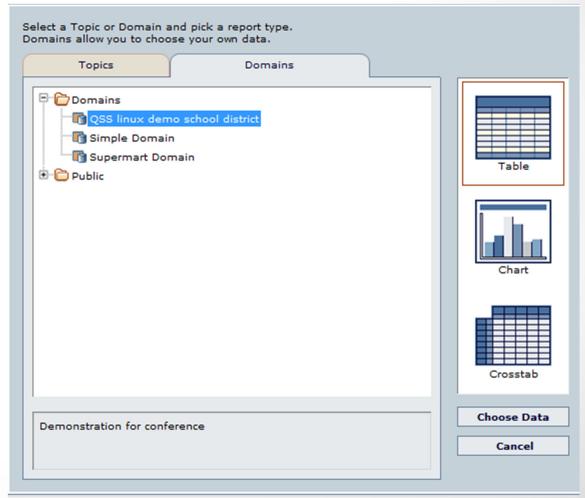


Creating an ad hoc report

The QSS domain used in this example allows complete access to the QARP database.

Domains may be used to restrict table and column access.

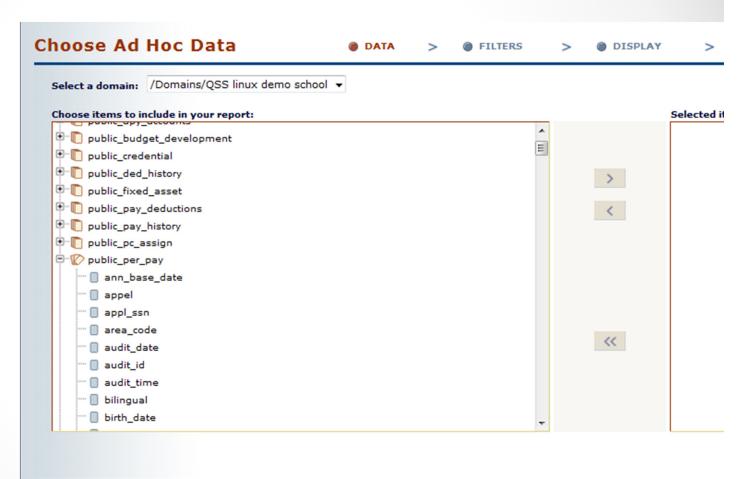
Choose whether this will be a report, chart, or a crosstab.



Select items to include

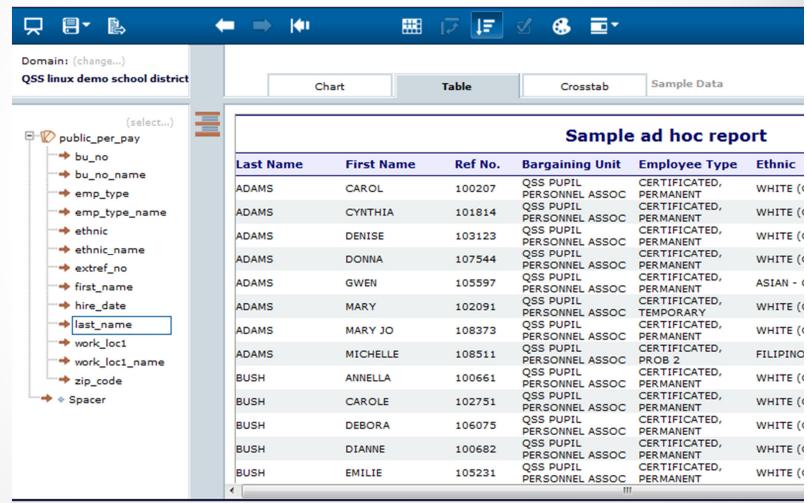
 Can select entire table, or individual fields.





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



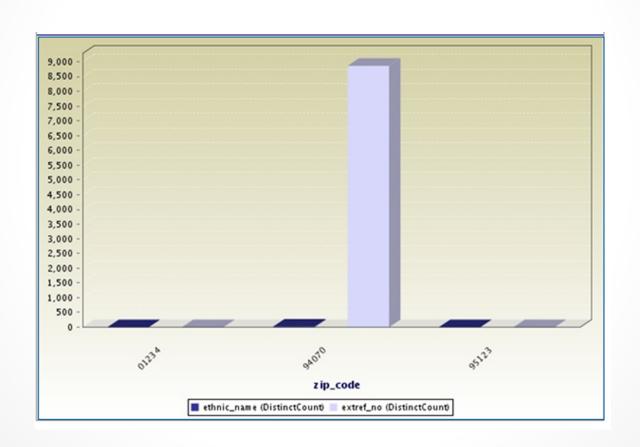
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Sample Crosstab

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

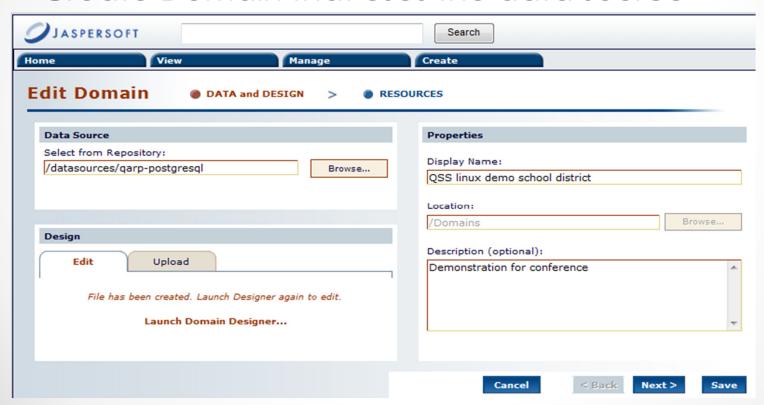
| | | bu_no_name | ▶ UNASSIGNED | ▼ QSS EDUCATION ASSOCIATION | | | | | |
|----------|-----------------------|---------------|-------------------------|-----------------------------------|-------------------------|-------------------------|----------------------------|--------------------------|---|
| zip_code | ethnic_name | emp_type_name | emp_type_name Totals | CERTIFICATED, PERMANENT | CERTIFICATED, PROB 2 | CERTIFICATED, PROB 1 | CERTIFICATED, TEMPORARY | CERTIFICATED, PROB 1B | C |
| ▼ 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 | | 2 | 13 | 0 | 1 | 2 | 0 | |

Sample bar chart



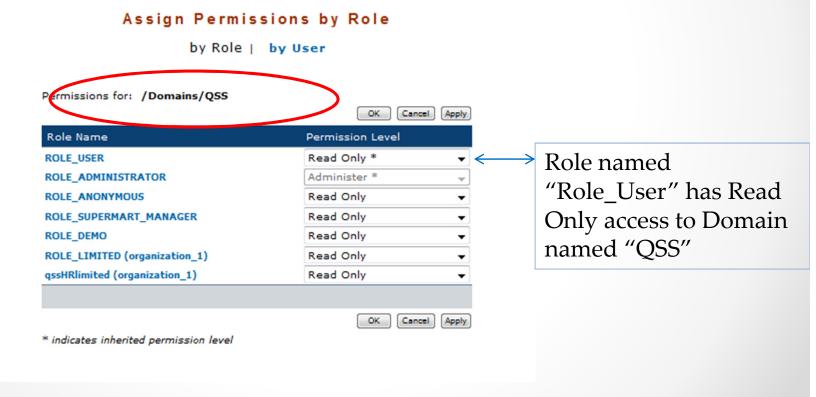
Getting started

- Define QARP as a data source
- Create Domain that uses the data source

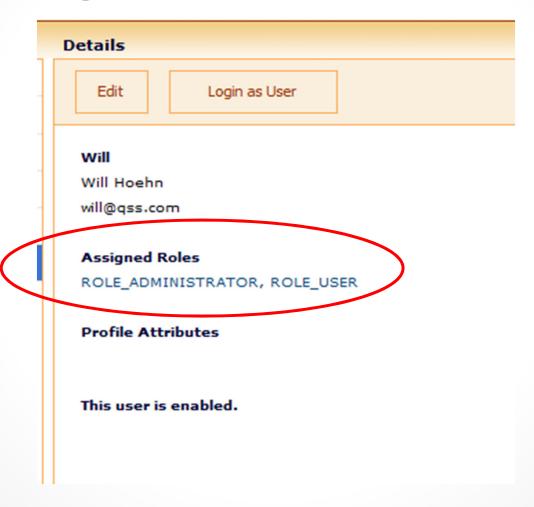


Role based permissions

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



Assign Users to Roles



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

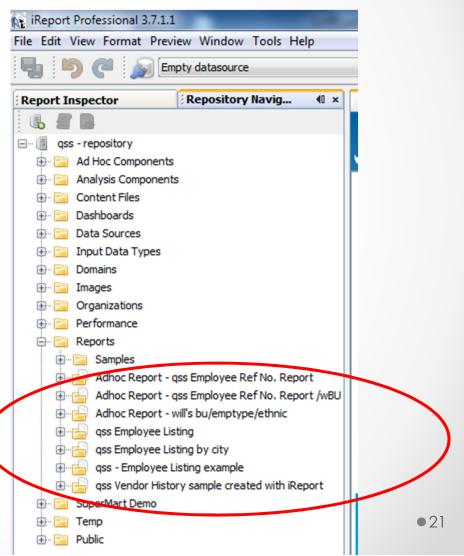
| | OK Cancel Apply | | | |
|-------------------------------|---------------------------|--|--|--|
| Role Name | Permission Level | | | |
| ROLE_USER | Read + Write + Delete * ▼ | | | |
| ROLE_ADMINISTRATOR | Administer * | | | |
| ROLE_ANONYMOUS | No Access * ▼ | | | |
| ROLE_SUPERMART_MANAGER | No Access * ▼ | | | |
| ROLE_DEMO | No Access * ▼ | | | |
| ROLE_LIMITED (organization_1) | Read Only * ▼ | | | |
| qssHRlimited (organization_1) | Read Only * ▼ | | | |

iReport – Desktop tool for developing reports



iReport can access the Jaspersoft repository

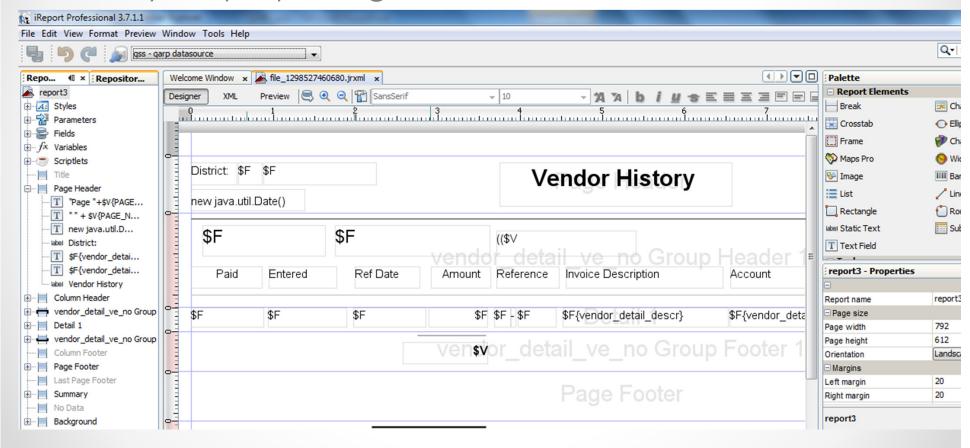
- Reports developed with iRreport can be published to the Jasper repository
- Reports developed and saved via the web interface are accessible to iReport



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iReport – full IDE for report development

May be perplexing to the newcomer...



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Qarpe diem?

