SYNERGY 2015

Adaptive, Embedded, Web-based Reporting

Presented by: Bob Cergol

Q: Why would you need? …

… to develop reports that can dynamically and automatically deliver the desired and allowed information from the correct data source and appropriately styled, all based on, and tailored to, who is running that report?

A: Deploy to Varied Audiences: Securely, Easily

1. ## Intra-company: different groups and users
   - CEO
   - Exec. Mgt.
   - Middle Mgt.
   - Supervisors,
   - Staff
   - External Customers or Vendors

2. ## Multi-Company and/or Multi-Division
   - Different database names
   - Different schema / table names

3. ## SaaS / Cloud: supporting multiple tenants
   - Different server, database, schema, and/or table names
   - Different Tenant IDs across all tables, etc.

DataAccess WORLDWIDE

Nice if user credential could dynamically ...

- Set the data source
  - Server, Connection, Database, Schema, Tables

- Constrain results from that source
  - Filter rows, suppress columns

- Format & Brand output/display of results
  - CSS Style elements, images

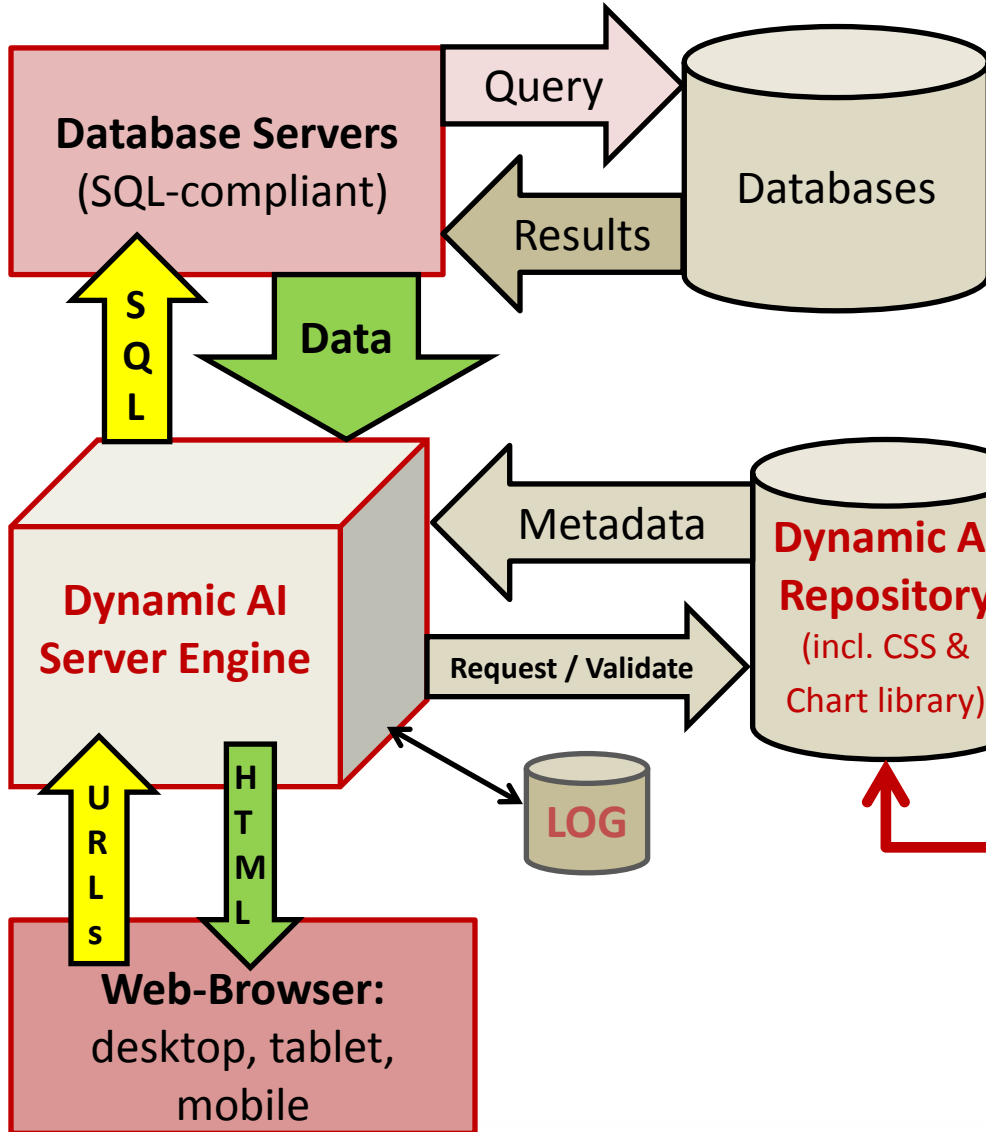**DataAccess** WORLDWIDE

Benefits of Adpative Reports

○ Eliminates complex programming logic

○ Reduces development time and cost

○ Simplifies maintenance & deployment

- Data-driven logic decoupled from application source edit, compile, deploy cycle
- Faster, easier deployment
- Faster response to customer change requests

○ Over-all higher level of report functionality

- Fully interactive reports and charts, unlimited drill-down, links to webapps, etc.
- Allow users to run inside your app – or independent of your app.
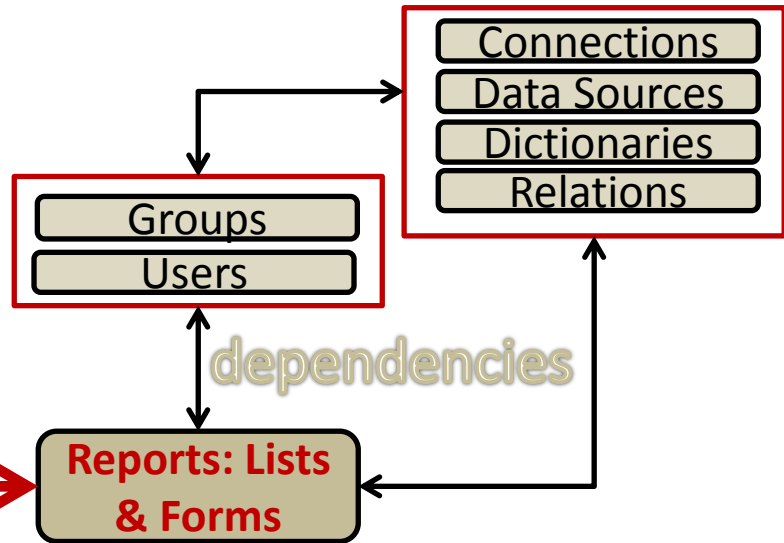
Dynamic AI: *an adaptive reporting solution*

- Business Intelligence Platform – *RAD* tool for …
  - Interactive Reports
  - Interactive Charts
  - Dashboards
  - Key-Performance Indicators (KPI's)

- *Multi-purpose Reporting Tool for Developers*
  - Integration with Dataflex Web *and* Windows app's
  - Super-productive and fun to use

- Ad-hoc Query Tool for End-Users
  - Embedded or standalone

DataAccess WORLDWIDE

Dynamic AI: *under-the-hood*

1. SQL script generator

2. HTML-from-data document generator

3. Metadata Entry/Edit web-application

   - No programming required
   - SQL join builder, SQL script editor
   - Provides for custom scripting (.js, vb)
   - Library of Interactive .js-based charts
   - Library of static charts w/custom definition module
   - Dynamic Menu System

DataAccess WORLDWIDE

URL Parameters

http://serverName/virtualDirName/ai.asp?UID=&PW=&DAI_R=

- Dynamic AI server/instance name
- User Credential (ID & PW or encrypted ticket#)
- Report ID
- Optional parameter values:

&DAI_S_FilterName=&FParmN_=&Prtio_=
&SFrame=&Device=&ListStyle=&FormStyle=

- ◦ Filters, Parameters, Partition
- ◦ Navigation, Output type, Stylesheets

- Others: user supplied & system generated

Report Examples

- [WebApp in Firefox](#)
- [WebApp in Chrome](#)
- [WebApp in IE](#)

- [Windows App.](#)

- [DF 18 Studio (WebApp examples)](#)
- [VDF 17 Studio (Windows example)](#)

DataAccess WORLDWIDE