Use DudasBI with Apache Kylin

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Intro

We can use Quick Start with Sample Cube of Kylin Project to make an example of integration with Dundas BI

Kylin Pre-requisites

First, you need Build Kylin Cube: Quick Start with Sample Cube: With firth step of link, you can check the result cube executing:

select part_dt, sum(price) as total_selled, count(distinct seller_id) as sellers from kylin_sales group by part_dt order by part_dt
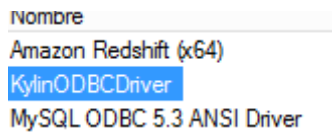
Query results:

Results (731)

PART_DT ⌄	TOTAL_SELLE⌄..	SELLERS ⌄
2012-01-01	466.9037	12
2012-01-02	970.2347	17
2012-01-03	917.4138	14

Used Software

- Kylin: 1.5.2

- Kylin ODBC 1.5 (Don't use v1.3, don't work)

- Dundas

Create Connection

1. [Install Kylin ODBC](#)

2. Add **DSN System** in Windows (**this program dont work with User DSN**)

3. And configure: User-name /Password: ADMIN / KYLIN

4. Click Connect and Choose the project

5. Click on "Done"

Install Dundas Pre-requisites

[Dundas Requeriments](#)

Most of them are automatically installed on setup process , but Dundas requires an external SQL Server for intenal use:

"Microsoft SQL Server 2008 / 2008 R2 / 2012 / 2014 / 2016. We recommend using Microsoft SQL Server 2014 or higher

•Microsoft SQL Server Express Editions are supported but not recommended for production use due to limitations"

For PoC prouposes we will uses, <u>SQL 2014 Express:</u> ✔ Express 64BIT\SQLEXPR_x64_ENU.exe

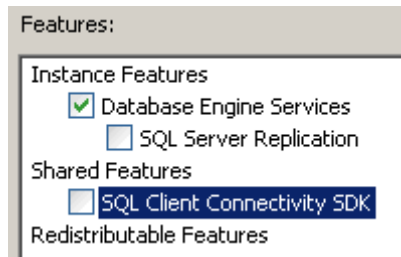We dundas recomends Chrome or Firefox (IE explorer is not recomended)

We will process to standard install of Microsoft SQL Server:

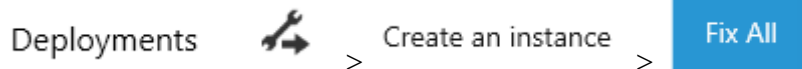New SQL Server stand-alone installation or add features to an existing installation
Launch a wizard to install SQL Server 2014 in a non-clustered environment or to add existing SQL Server 2014 instance.

With a minimum install:

Features:

Instance Features
☑ Database Engine Services
☐ SQL Server Replication
Shared Features
☐ SQL Client Connectivity SDK
Redistributable Features

Create Dundas Proyect

To create a new isntance:

Deployments 🔧 > Create an instance > Fix All

Resolving All Prerequisites has succeeded

Adding IIS Components Windows Feature	✓	Log
Downloading Access Connectivity Engine Prerequisite	✓	Log
Installing Access Connectivity Engine Prerequisite	✓	Log
Downloading Microsoft® SQL Server® CLR Types (Feature Pack 2014) Prerequisite	✓	Log
Installing Microsoft® SQL Server® CLR Types (Feature Pack 2014) Prerequisite	✓	Log
Downloading Microsoft® SQL Server® Transact-SQL ScriptDom (Feature Pack 2014) Prerequisite	✓	Log
Installing Microsoft® SQL Server® Transact-SQL ScriptDom (Feature Pack 2014) Prerequisite	✓	Log
Downloading Microsoft® SQL Server® 2014 Analysis Management Objects (Feature Pack 2014) Prerequisite	✓	Log

Put name of project

Name:

Kylin

We will ned create a new database in our SQL Server

◉ Create new application database

○ Use existing application database

☐ Encrypt application database connection string

You must see your local SQL Server express

Servers:

ARP-PC\SQLEXPRESS

For the next option we will use default configurations

The result will be similar to:

Adding instance to server has succeeded

All tasks have been completed. Click the links below, or review the detail log files.

| BIWebsite | http://arp-pc:8000/ |

Updating Registry   ✓ Log

Copying Files   ✓ Log

Creating Application Database   ✓ Log

Creating Warehouse Database   ✓ Log

Creating IIS Item Kylin   ✓ Log

Setting Connection Strings   ✓ Log

Creating Service Dundas BI Scheduler (Kylin)   ✓ Log

Connect to data proyect

Use your Web explorer, **by default the login name is admin** and password is the one that you

specified during the installation procedure. (http://arp-pc:8000) and press

Connect Dundas with Kylin: Create Data Connector

Expand left menu

 >

Put a name and type Data provider:

In authentication Method:

Very important, check System DSN: and doble clink on empty combobox

Authentication

Server Windows credentials

Use System DSN

☑

System DSN

kylin2

Don't put any Password or Advaced:

Password

▶ Advanced

Load Table Metadata: Select Structures ✎

Search Structures 🔍

☑ "DEFAULT"."KYLIN_CAL_DT"
☑ "DEFAULT"."KYLIN_CATEGORY_GROUPINGS"
☑ "DEFAULT"."KYLIN_SALES"

And Clik OK

✔ Your data connector 'Kylin' was created. Discovery is now happening, but you don't need to wait for it.

ERROR: Connection

Check:

- Your are using System ODBC User DSN | System DSN | File DSN on Windows, and works

- Dundas

  ○ Check uses System DNS (No user DNS)
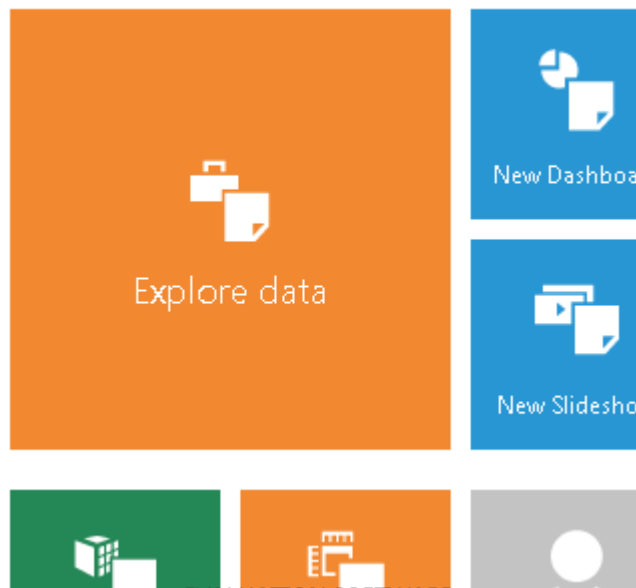
- Password is empty
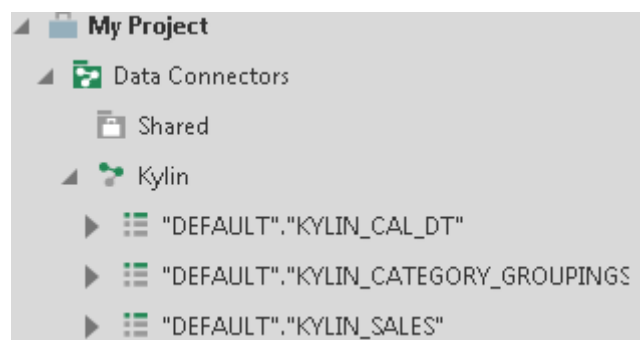
- Authentication is Server Windows Credential

Preview your data: Explore data

How / Where I can find my datasources

In you main Dashboard , "Explore Data"

Rigth Menu, expand "Data Connections"

ERRORs:

In ODBC LOG

[INFO][2016-12-06.19:05:30]SELECT * FROM "DEFAULT"."KYLIN_CAL_DT" WHERE 1 = 2

[INFO][2016-12-06.19:05:30]Successfully done executing the query

[FATAL][2016-12-06.19:05:30]SQLColAttribute unknown attr, ColNum: 1, FldID: 1211
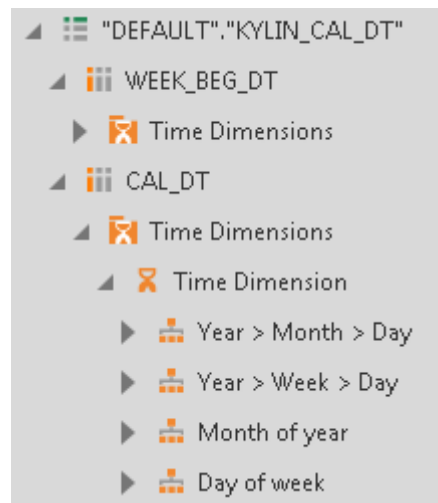
Nice

The KYLIN_CAL_DT is automatically detected>

For any suggestions, feel free to contact me
Thanks, Alberto