

Welcome to

dreamOle[®]



Cognizant



FORMTITAN



MAKEMECLLOUD
consulting



aircall

blue-
infinity

Linked by isobar

Dentsu Aegis Network



FINANCIALFORCE



wefox

BLACKBIRD



Usa Salesforce Connect para acceder a datos de fuentes externas sin replicarlas

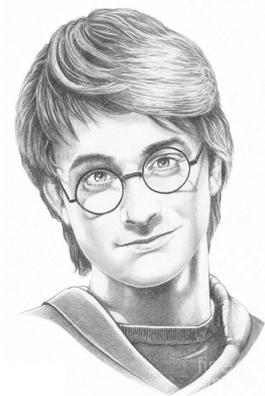


Esteve Graells
esteve.graells@gmail.com
forcegraells.com

¿Quién es quién en esta historia?



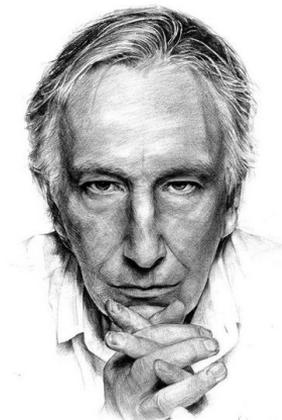
Negocio



Tú



La Luz

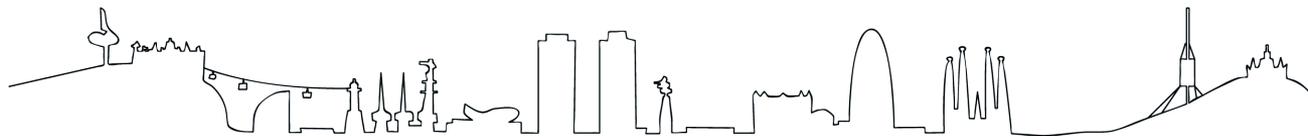


Salesforce





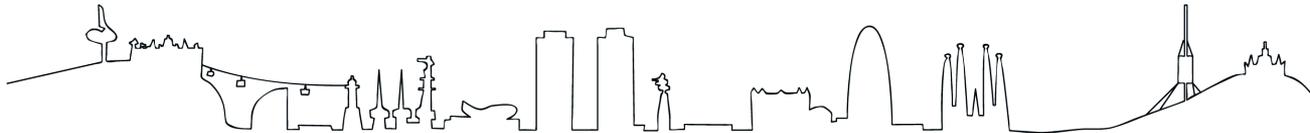
*Es vital para nuestra empresa
acceder a datos en otro sistema.
Tienes que hacerlo esta semana.
Nada de desarrollos.
Sé que no podrás.*





Harry no sufras.

*Recuerdo que un grupo de
irreductibles hicieron algo
fabuloso en un extraño lugar.*



2007



Nace Maria Graells



Harry Potter y la Orden del Fénix
fue la película más vista



El equipo de Microsoft SQL
Server inicia el **proyecto Astoria**



Welcome!

 dpblogs July 18, 2007

Rate this article



Welcome to the Project Astoria Team Blog! The Astoria team (part of the “Data Programmability” (DP) team within the SQL Server organization at Microsoft) is responsible for enabling new generations of enterprise information applications use data on the web and to build solutions to facilitate such usage patterns. For those that have followed the Project Codename “Astoria” since its prototype stages, the project has moved out of the incubation phase and will become part of the suite of data access technologies created by the DP team. We look forward to seeing you through the project and your feedback via this blog as we progress through the project.

Project Astoria Overview

The goal of the Astoria project is to enable applications to expose data as a *data service* that can be consumed by web clients within corporate networks and across the Internet. Such data services are available over regular HTTP requests using standard HTTP verbs such as GET, POST, PUT and DELETE to represent the operations against the service. The payload format for the data exchanged with the service can be controlled by the client and supports a number of formats such as plain XML and JSON. The use of web-friendly technologies make it ideal as a data access for modern applications, Rich Interactive Applications and other applications that need to operate against data that is across the web.

The goal of the Astoria project is to enable applications to expose data as a data service that can be consumed by web clients.



Welcome!

 dpblogs July 18, 2007

Rate this article

 0  0  4

Welcome to the Project Astoria Team Blog! The Astoria team (part of the “Data Programmability” (DP) team within the SQL Server organization at Microsoft) is responsible for analyzing how current and next generation internet enabled applications use data on the web and to build solutions to facilitate such usage patterns. For those that have followed the Project Codename “Astoria” since its prototype stages, the project has moved out of the incubation phase and will become part of the suite of data access technologies created by the DP team. We look forward to sharing our thoughts and listening to your feedback via this blog as we progress through the project.

SQL for the Web

Project Astoria Overview

The goal of the Astoria project is to enable applications to expose data as a data service that is consumed by web clients within corporate networks and across the internet. Such data services are reachable over regular HTTP requests using standard HTTP verbs such as GET, POST, PUT and DELETE to represent the operations against the service. The payload format for the data exchanged with the service can be controlled by the client and all options are simple, open formats such as plain XML and JSON. The use of web-friendly technologies make it ideal as a data back-end for AJAX-style applications, Rich Interactive Applications and other applications that need to operate against data that is across the web.

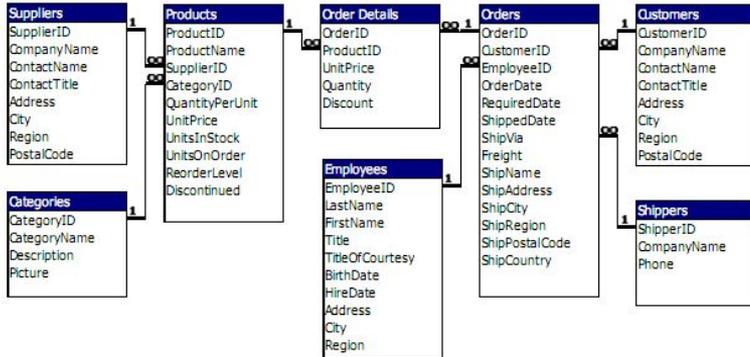


oData: "expose data as data Service"



Venerable Microsoft
Northwind Database

`http://services.odata.org/OData/OData.svc/Category(1)/Products?$top=2&$orderby=name`
service root URI resource path query options



\$SELECT	<code>/Products?\$select=*,Category/Name</code>
\$FILTER	<code>/Suppliers?\$filter=Address/City eq 'Redmond'</code>
\$ORDERBY	<code>/Products?\$orderby=ReleaseDate asc, Rating desc</code>
\$EXPAND	<code>/Products?\$select=*,Category/Name&\$expand=Category</code>
\$TOP \$SKIP	<code>/Products?\$top=5&\$skip=2</code>

DIY : mi colección de Postman aquí - <https://www.getpostman.com/collections/993c37d4aa583270bbf8>

Más info aquí : <http://docs.oasis-open.org/odata/odata/v4.0/odata-v4.0-part2-url-conventions.html>



...pero, ¿y si fuente no expone oData?



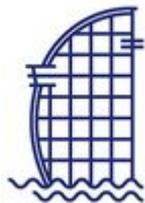
... y muchos otros
fabricantes están creando
conectores



2014



oData 4.0, es un Standard OASIS.
Empresas como SAP, Microsoft,
Salesforce lo integran completamente



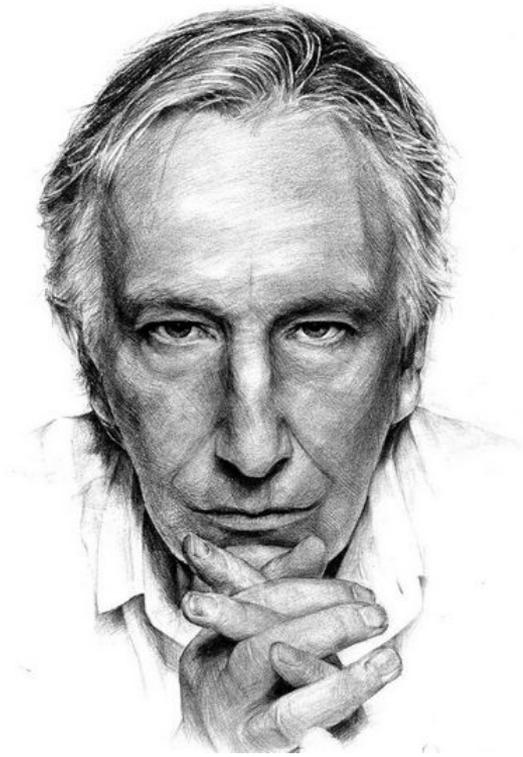
Interstellar es la película más vista,
pioneros viajando a la velocidad de
la luz



Salesforce presenta
Lightning Connect



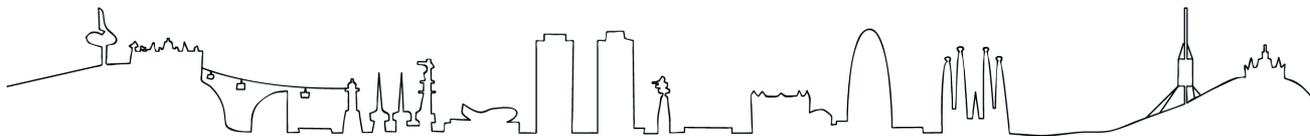
Salesforce Connect



Definición de External Data Sources y External Objects.

Relaciones entre objetos externos y los de tu ORG. obteniendo, Reporting, List Views, Tabs, etc.

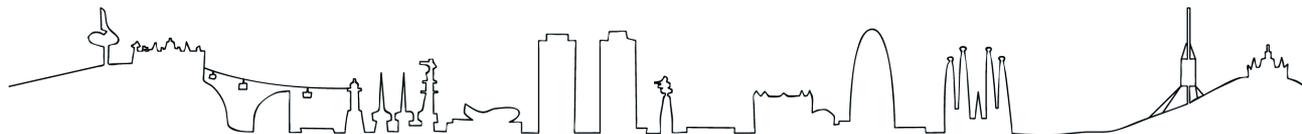
Sin Código.

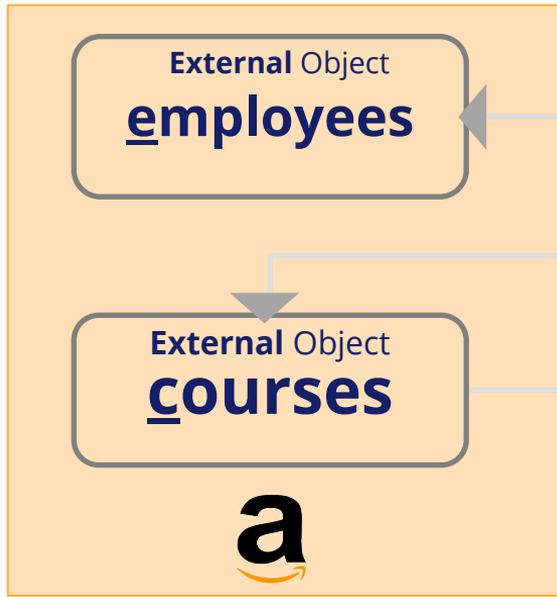


Demo escenario real



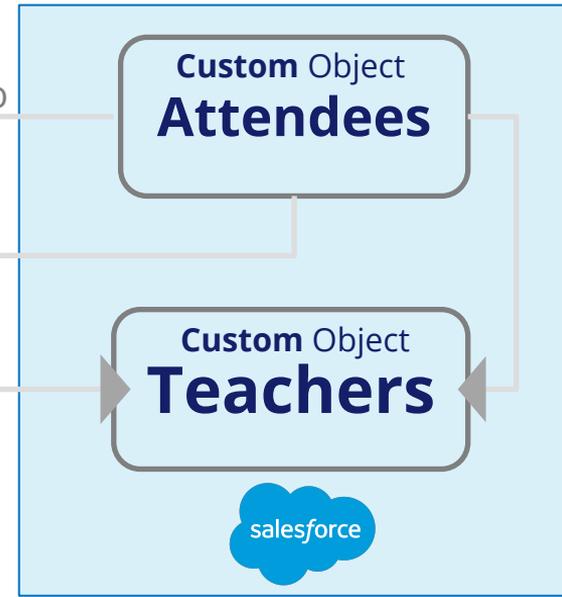
Acceder al sistema de RH
que está Amazon RDS,
para usarlos en la
aplicación de formación
en Salesforce



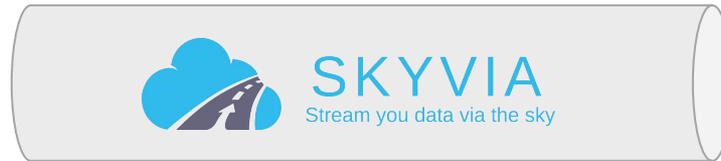


External Lookup: relaciona un objeto custom/estándar con un objeto externo

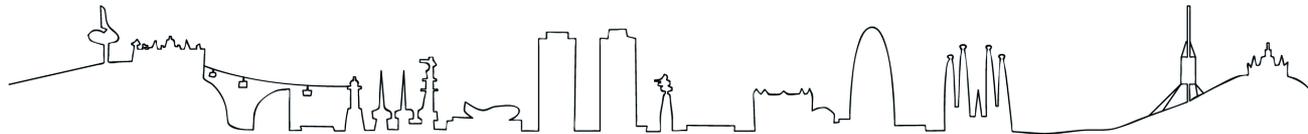
Internal Lookup: relaciona uno externo con uno custom/estándar



Skyvia
envía
peticiones



oData con
Salesforce
Connect



Casos de uso

Regulación

No puedo copiar ni traer los datos a la ORG

No code

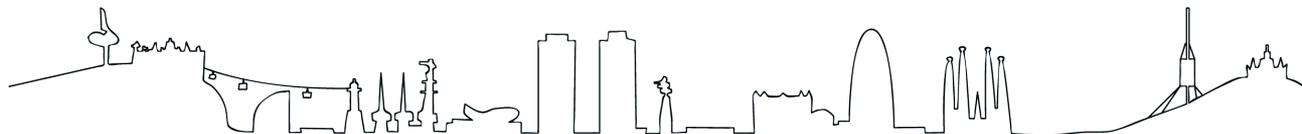
Salesforce Connect esconde toda la complejidad de oData

Heterogen*

Acceso a **fuentes** de datos (recuerda mis tareas de Gmail)

...pensando

External Objects for Big Data accessing an OnPremise Hadoop from Salesforce
(<https://www.slideshare.net/SumitSarkar10/salesforce-external-objects-for-big-data>)





oData versus API de Servicios

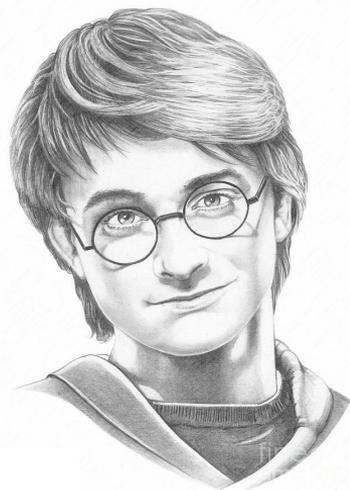


Según el enfoque tenemos resultados distintos (puede combinarse)

- ❖ Necesita una Fuente oData ó Conector (sus capacidades influyen)
- ❖ Herramienta Point & Click
- ❖ Orientado al intercambio de datos, no procesos de negocio
- ❖ Capex (licenciamiento)
- ❖ Reusable (en cierta manera)
- ❖ Límites (*100 external objects/org, 10,000 OData queries/hour – High Volume option - higher on request, 8MB response size*)
- ❖ Requiere Desarrollo e infraestructura
- ❖ Desarrollo implica, equipos, planificaciones, reuniones y muchos **post-its**
- ❖ Pueden implementarse APIs que responden a complejos escenarios de negocio
- ❖ Opex y Capex (desarrollo evolutivo/correctivo + infraestructura)
- ❖ Reusable (de otra manera)
- ❖ Límites conocidos de la plataforma



De mago a Maestro Jedi



**Apex
Connector
Framework**



<https://agarciaodeian.com/2015/12/21/lightning-connect-and-apex-connector-framework/>

<https://albasfdc.com/category/lightning-connect/>

<https://forcegraells.com/2018/03/18/apex-connector-framework/>



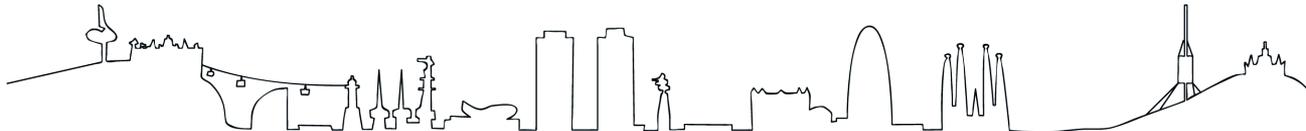
Muchas gracias



En Barcelona hay una comunidad
Salesforce con Meetups
(Contacto: pablo.garciapu@gmail.com)



Kudos infografía y dibujitos: Pinterest, Freepik



Q & A



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