



BI Cloud: Aprovechando al máximo el análisis de datos en la nube

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OTN Tour - Agosto 2015

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INTEGRATED ANALYTICS

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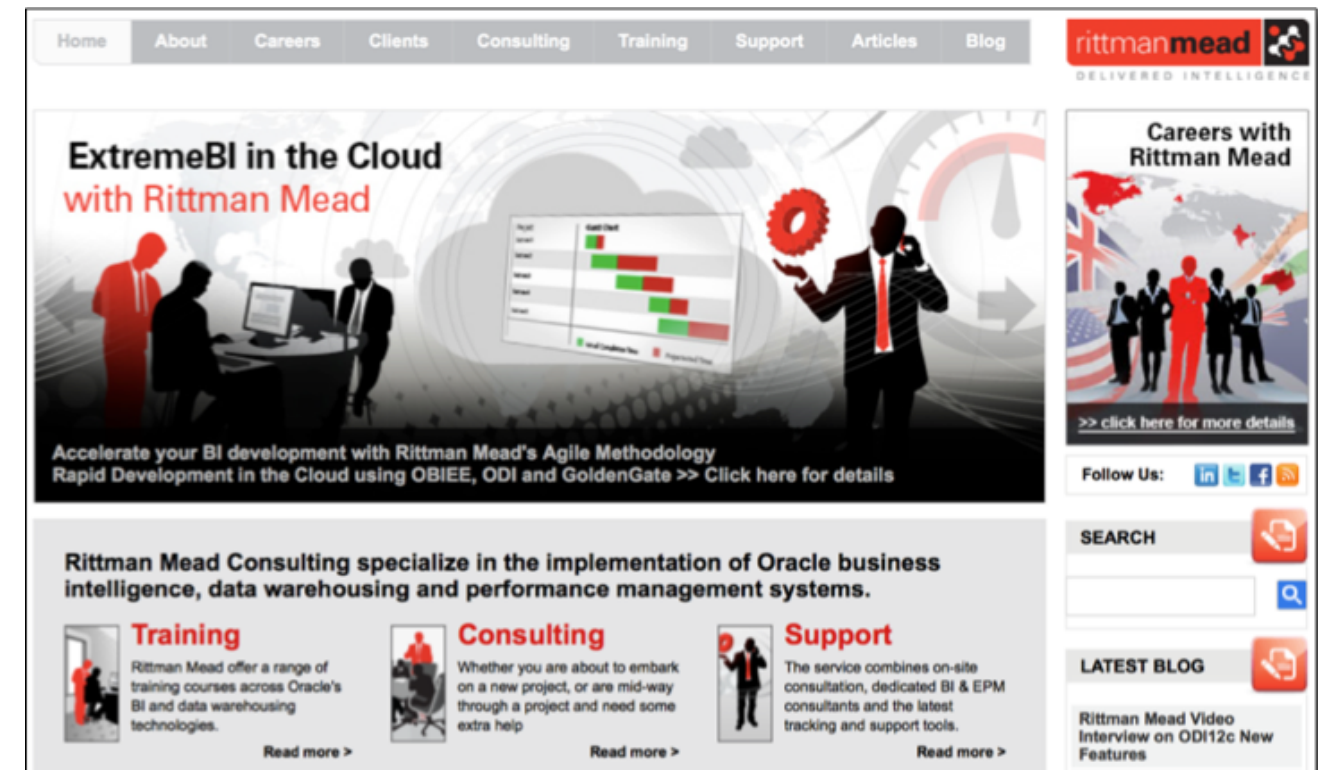
- Ingeniera en Computación. Especialista en BI y BPM con +18 años de experiencia en consultoría y liderazgo de proyectos con tecnología Oracle en varios países de Latino América.
- Co-fundadora y Vice Presidenta del Grupo de Usuarios de Oracle Uruguay (UYOUG)
- Artículos publicados de Business Intelligence en OTN en Español e Inglés
- Speaker en conferencias internacionales como Collaborate, OTN Tour LA, OOW, UKOUG y Rittman Mead BI Forum
- Oracle ACE
- Training Materials Specialist en RittmanMead



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Rittman Mead

- Oracle Gold partner especializado en BI y DW con oficinas en USA (Atlanta) y Europa
- Líder mundial por su excelencia técnica, soluciones e innovación en Oracle BI
- Ganador de 5 premios UKOUG Partner of the Year 2014 incluyendo BI
- Provee consultoría y cursos para clientes en todas partes del mundo.
- 80 consultores. 1 Oracle ACE Director y 3 ACEs
- Consultores expertos en un amplio rango de herramientas Oracle: OBIEE, OBIA, BI Cloud, ODI, Essbase, Oracle OLAP, GoldenGate, Exadata, Exalytics, Endeca y BigData
- Blog : <http://www.rittmanmead.com/blog/>
- Twitter : @rittmanmead

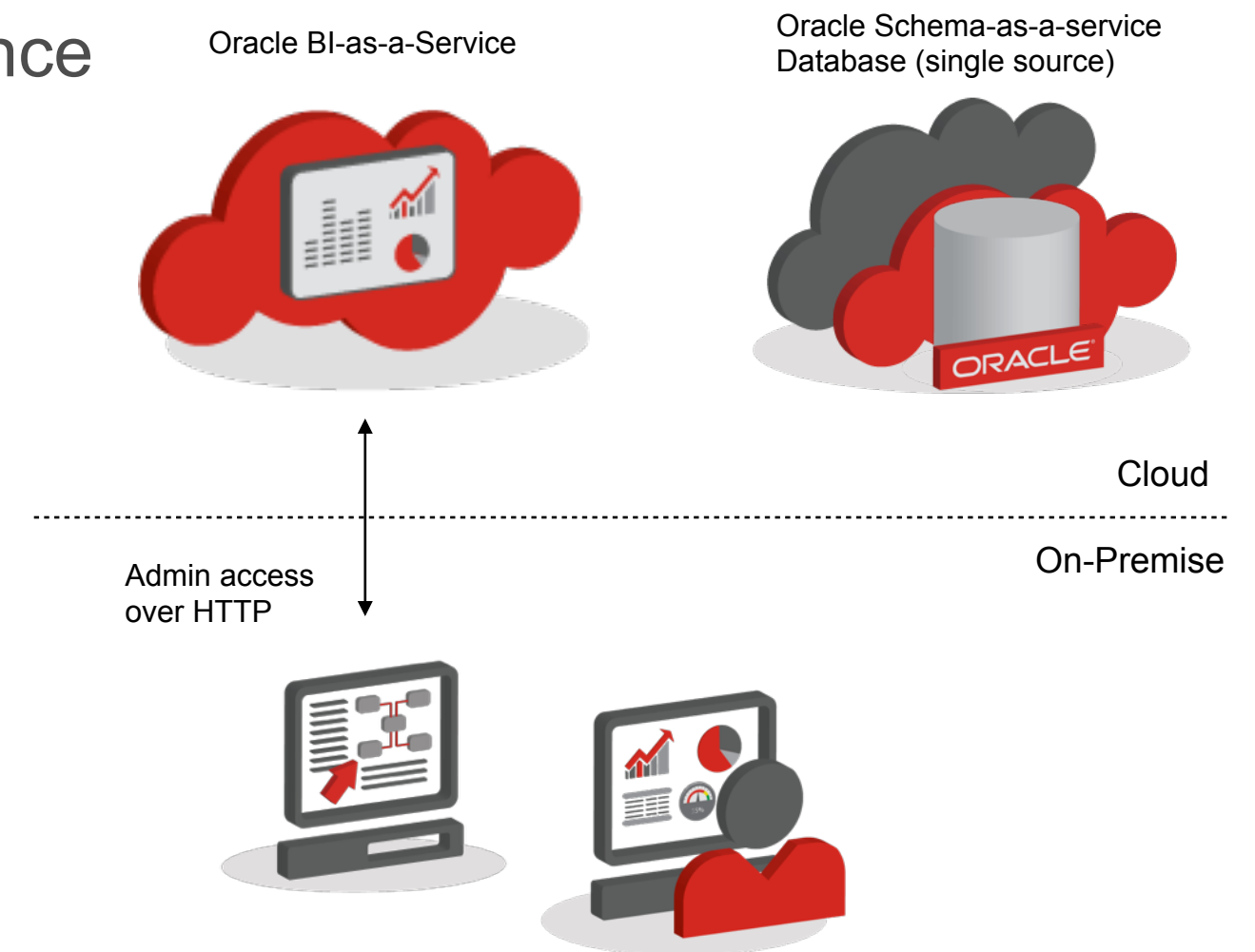


Agenda

- Qué es Oracle BI Cloud?
- Características
- Crear Análisis y Dashboards
- Visual Analyzer y Data Mashup
- Cómo subir datos a la nube?
- Modelando los Datos

Qué es Oracle BI Cloud?

- Oracle Business Intelligence Cloud es la plataforma analítica de Oracle en la nube.
 - ▶ Versión de OBIEE construido especialmente para Cloud
 - ▶ Orientado a Self Service, Consumer-Style Experience
 - ▶ Parte de Oracle Public Cloud

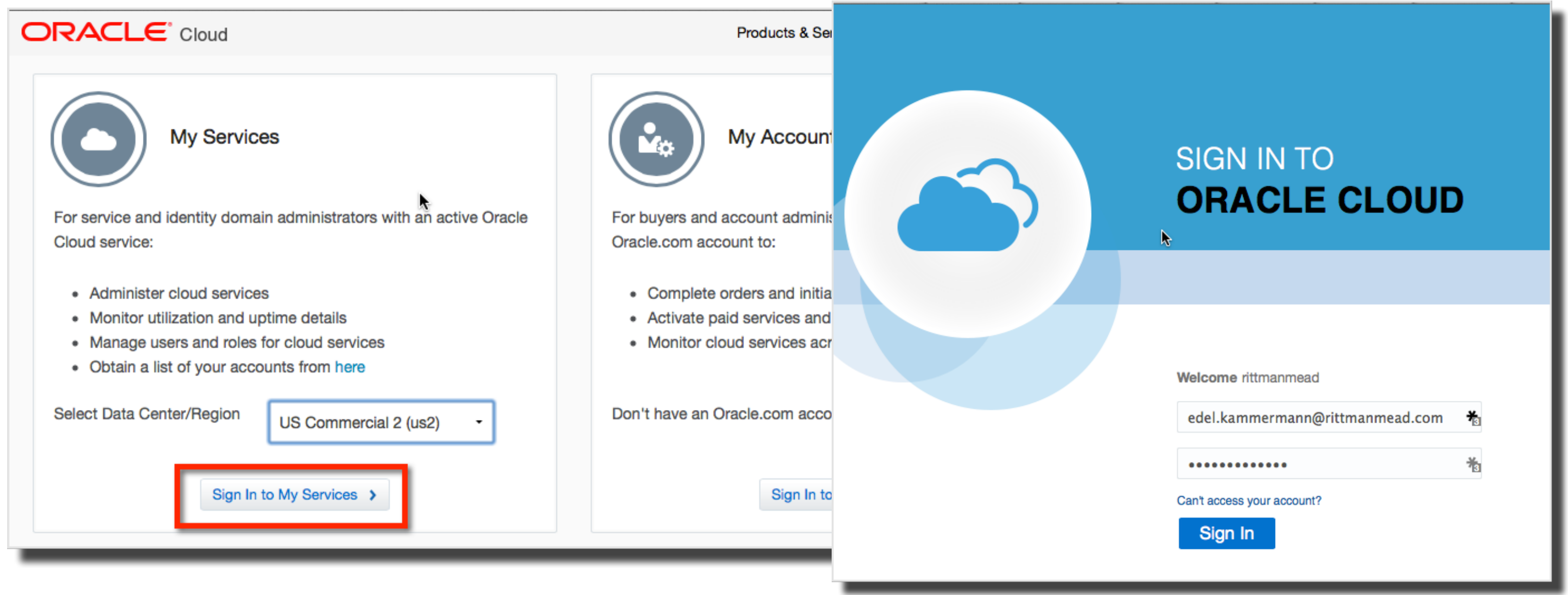


Características de BI Cloud Services

- Multi-tenant OBI
- Integrado con Oracle Cloud
- Herramientas BI:
 - ▶ Answers
 - ▶ Dashboards
 - ▶ Visual Analyzer (no incluido en OBIEE 11g)
 - ▶ Data Mashup
- Herramientas Web para subir y modelar datos
- BI Mobile HD
- Incluye DB service schema (schema-aas)
- Administración simple de usuarios y roles

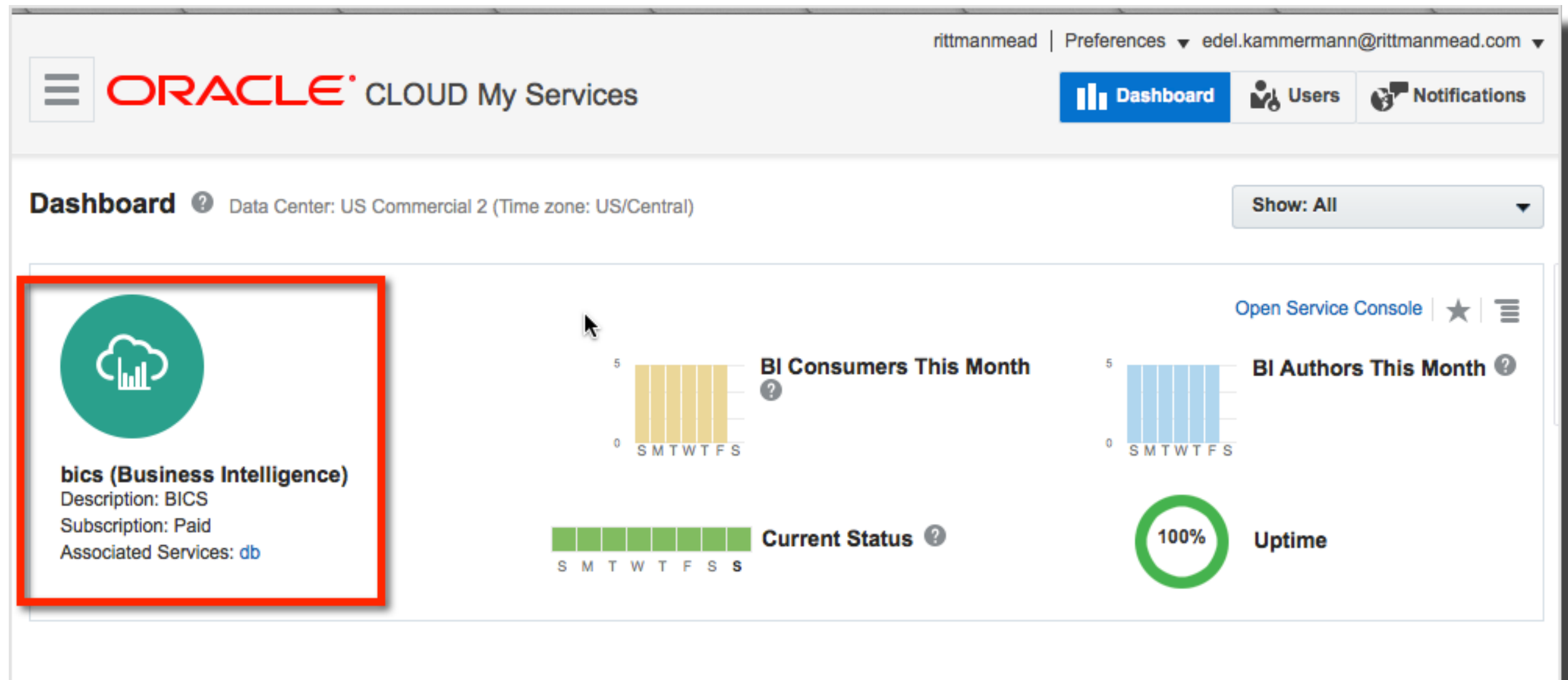
Cómo conectarse?

- A través del sitio <https://cloud.oracle.com/sign-in>



Oracle Cloud: My Services Dashboard

- Lista todos los servicios de Cloud a los cuales el usuario tiene acceso



Oracle Cloud: My Services Dashboard

- Para ingresar a la herramienta dar click a la URL de la instancia del servicio.

The screenshot shows the Oracle Cloud My Services dashboard for the 'bics' (Oracle Business Intelligence Cloud Service). The top navigation bar includes the Oracle logo, the text 'ORACLE CLOUD My Services', and user information 'ritmanmead | Preferences | edel.kammermann@ritmanmead.com'. There are links for 'Dashboard', 'Users', and 'Notifications'. The main heading is 'Service Details: bics (Oracle Business Intelligence Cloud Service)' with an 'Open Service Console' button. The left sidebar has an 'OVERVIEW' section for August 2015 showing 'Not Available Uptime' and '0 Outages', and an 'ADMINISTRATION' section with a 'Lock / Unlock Service' button. The main content area features a 'Service Status - August 2015' calendar view showing the service was up for the first two days of the month. Below this is the 'Additional Information' section, which includes details like Plan, Service Start Date, Subscription ID, Customer Account, CSI Number, Data Center, and Version. The 'Status' is 'Active'. The 'Service Instance URL' is highlighted with a red box and is 'https://bics-ritmanmead.an...'. Other details include Domain SFTP Host & Port, Domain SFTP User Name, Service SFTP Host & Port, and Service SFTP User Name.

ritmanmead | Preferences | edel.kammermann@ritmanmead.com

ORACLE CLOUD My Services

Dashboard Users Notifications

Service Details: bics (Oracle Business Intelligence Cloud Service) Open Service Console

OVERVIEW
(for August 2015)

Not Available Uptime

0 Outages

ADMINISTRATION

Lock / Unlock Service

Service Status - August 2015 Month View | Quarterly View | Year View Current Month

Legend: Before Activation Service Up Planned Outage Service Incident

Additional Information

Plan: Oracle Business Intelligenc...

Service Start Date: 22-May-2015

Subscription ID: 1327571

Customer Account: Rittman Mead Consulting...

CSI Number: 20057533

Data Center: US Commercial 2

Version: 15.2.0.0.0

Status: Active

Service Instance URL: <https://bics-ritmanmead.an...>

Domain SFTP Host & Port: sftp.us2.cloud.oracle.com:22

Domain SFTP User Name: us258708 ?

Service SFTP Host & Port: sftp.us2.cloud.oracle.com:22

Service SFTP User Name: us243354 ?

Tour del Producto

- BICS ofrece al conectarse inicialmente un tour del producto para familiarizarse con él.

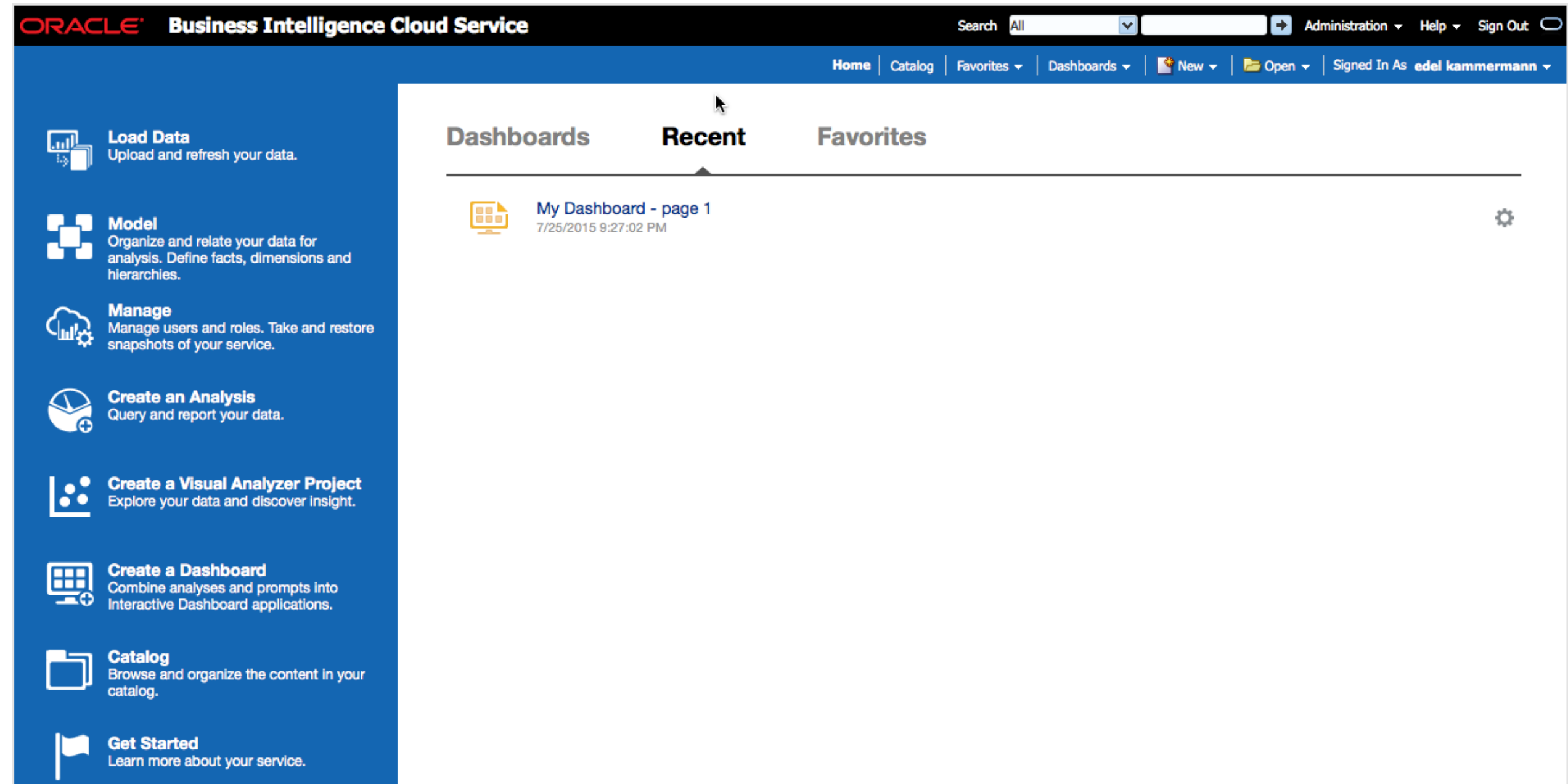
The image displays a sequence of four screenshots from the Oracle BI Cloud Service Product Tour, illustrating the user interface and key features:

- Slide 1: This is the Catalog**
This is where all your analyses, dashboards and reports are stored.
Callouts:
 - Save and access your private dashboards and reports here.
 - Save content to be shared with your coworkers here.
 - Click links here to act on the selected object. Only actions that apply to that object are listed.
- Slide 2: This is the Analysis**
Create and modify the views of your data.
Callouts:
 - Add views like graphs, tables, and gauges to your analysis.
 - You can add data to your views by dragging from the Subject Area, or you can return to Criteria.
- Slide 3: This is the Dashboard**
Find common dashboard objects, the basic building blocks for your dashboard in this list.
Callouts:
 - Select existing objects and analyses from the Catalog to include in your dashboard.
 - Use the breadcrumb to navigate back to where you came from.
 - Depending on your role, you may not have access to this end.
- Slide 4: This is your Home Page**
Begin using your Oracle BI Cloud Service with these shortcuts. Which shortcuts you see depends on your role.
Callouts:
 - Return to the home page, open dashboards and reports, and create new things from wherever you are.
 - Access your most frequently used content here.

Each slide includes a "Learn More" button and a "Don't show again" checkbox with an "Exit Tour" button.

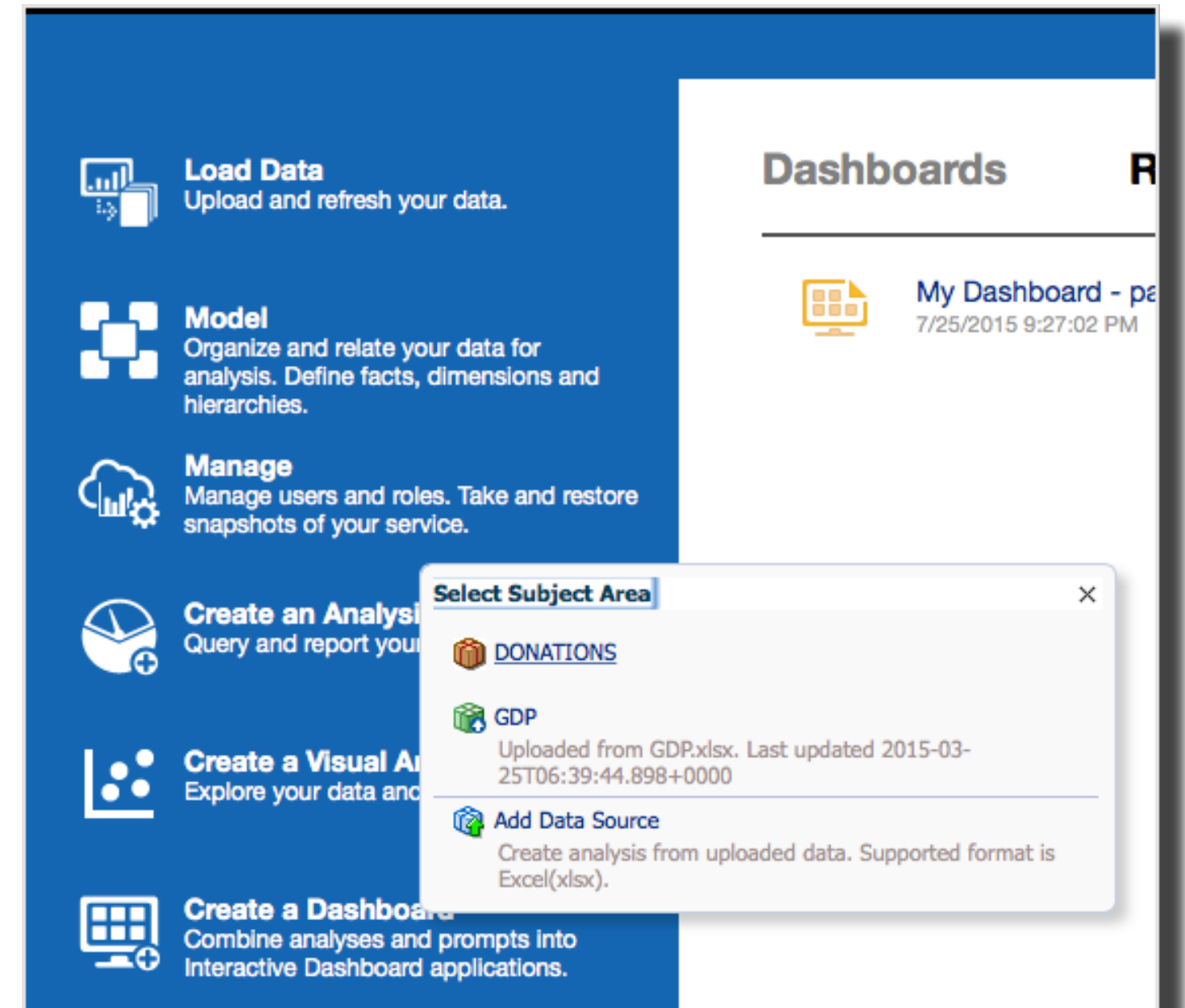


Página Principal



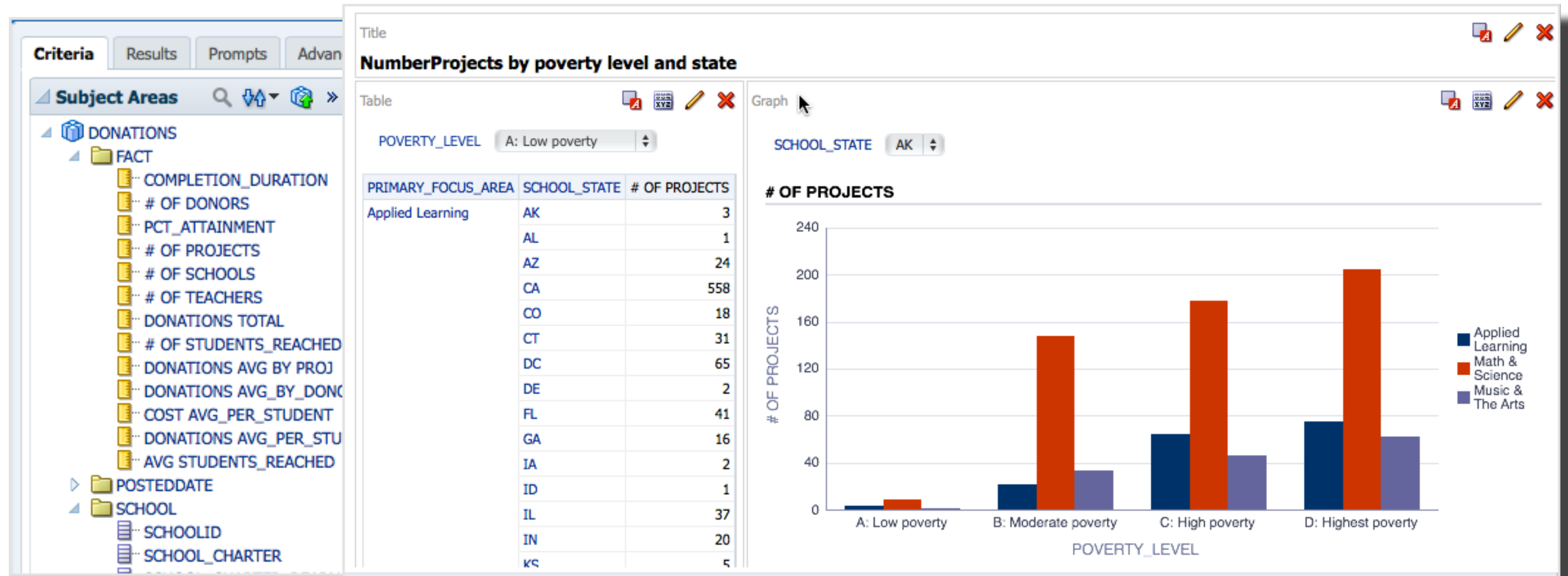
Crear Análisis con BI Cloud

- Seleccionar la Subject Area o elegir una nueva fuente de datos (archivo excel)



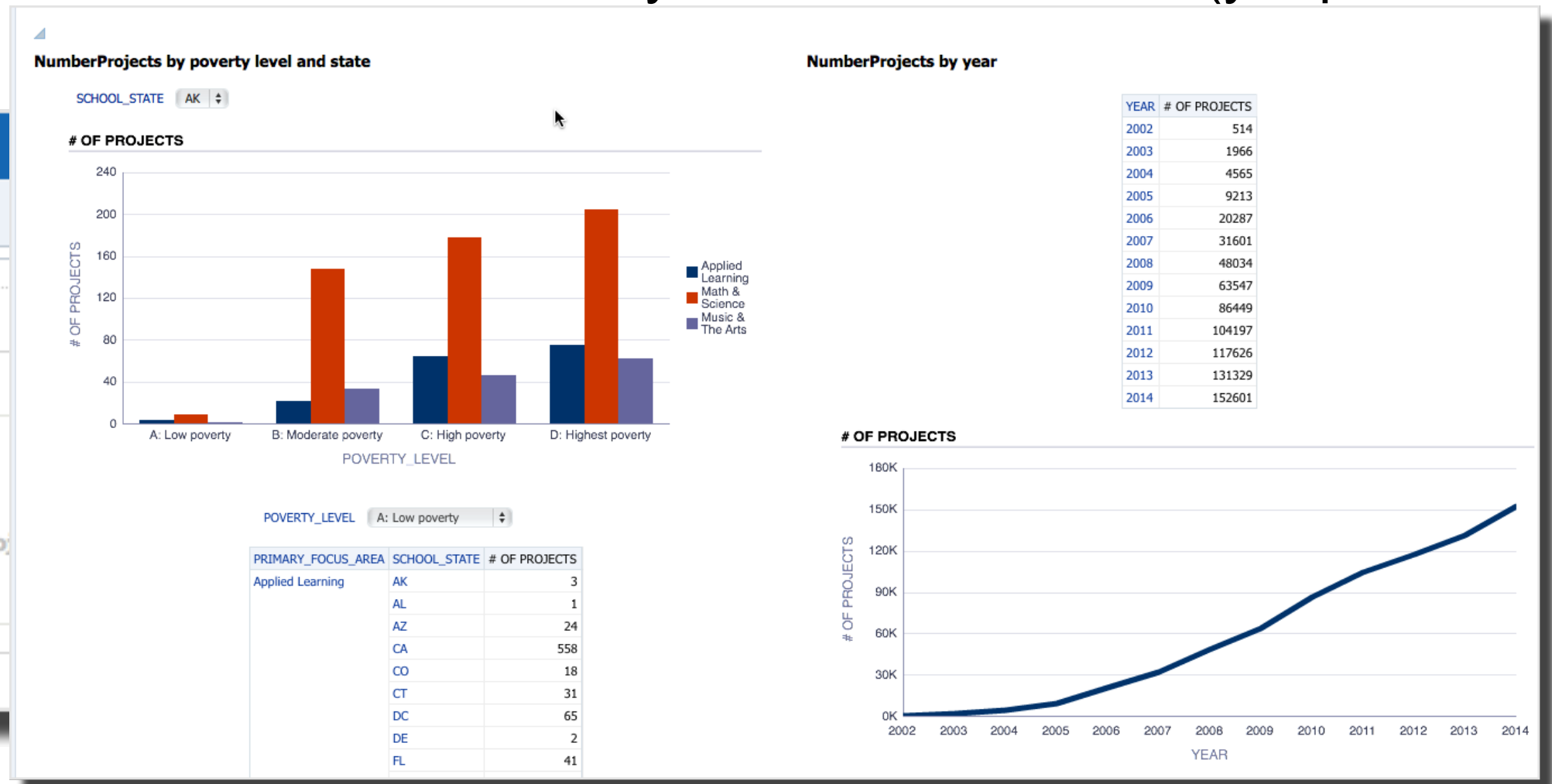
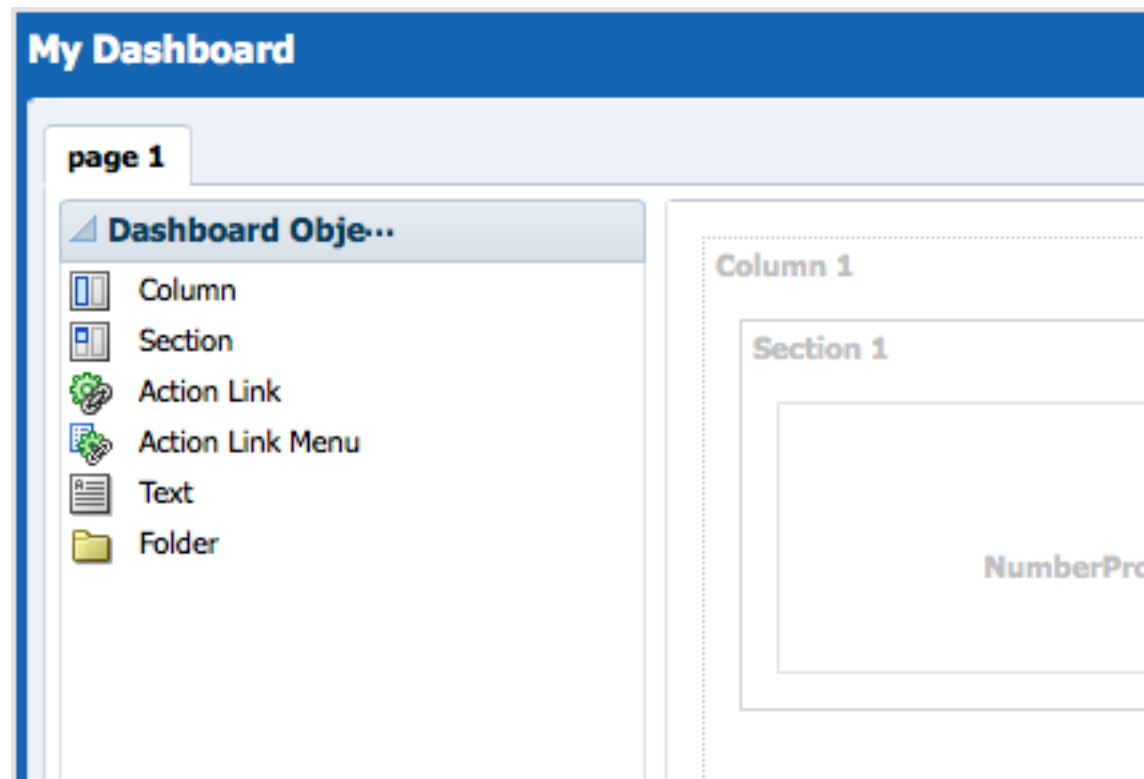
Crear Análisis con BI Cloud

- Mismo proceso para crear análisis que en OBIEE 11g
- Seleccionar las columnas y agregar filtros.



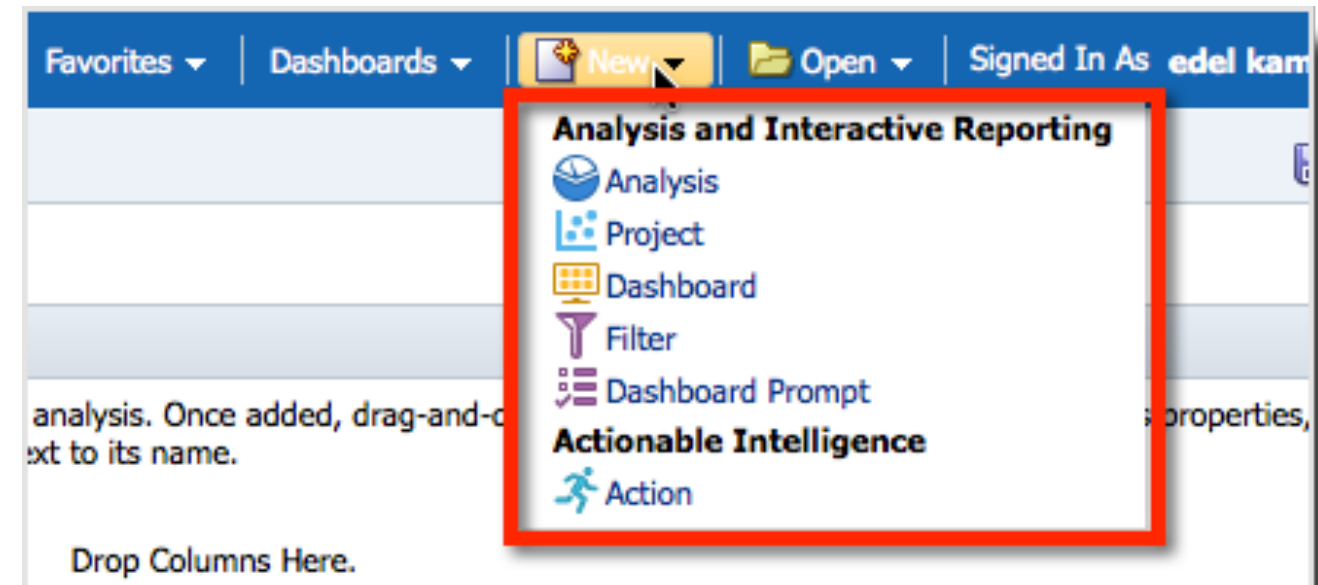
Crear Dashboards con BI Cloud

- Igual que en OBIEE 11g con la única diferencia que ya no existen algunos Dashboards Objects como las imágenes o links, el contenido embebido y la sección de alerta (ya que no es posible crear agents).



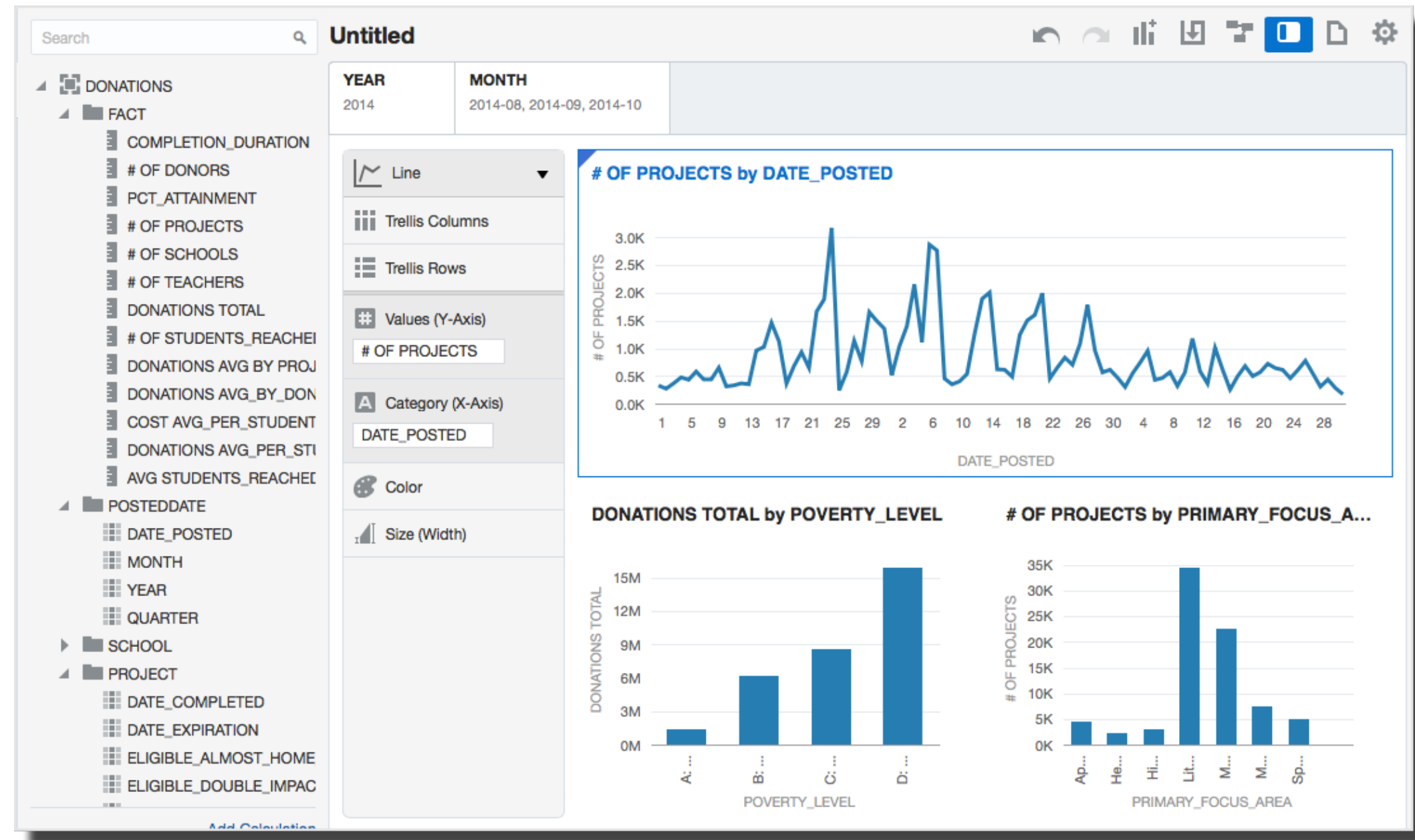
Restricciones en Analysis y Dashboards en BI Cloud

- Hay objetos que no se pueden crear con BI Cloud (y sí con OBIEE 11g)
 - ▶ Agentes
 - ▶ Acciones de invocación (web service, método java, etc), sólo de los de navegación
 - ▶ Scorecards
 - ▶ BI Publisher
- No hay integración con SOA/EBS ni Essbase
- No se puede exportar objetos del catálogo



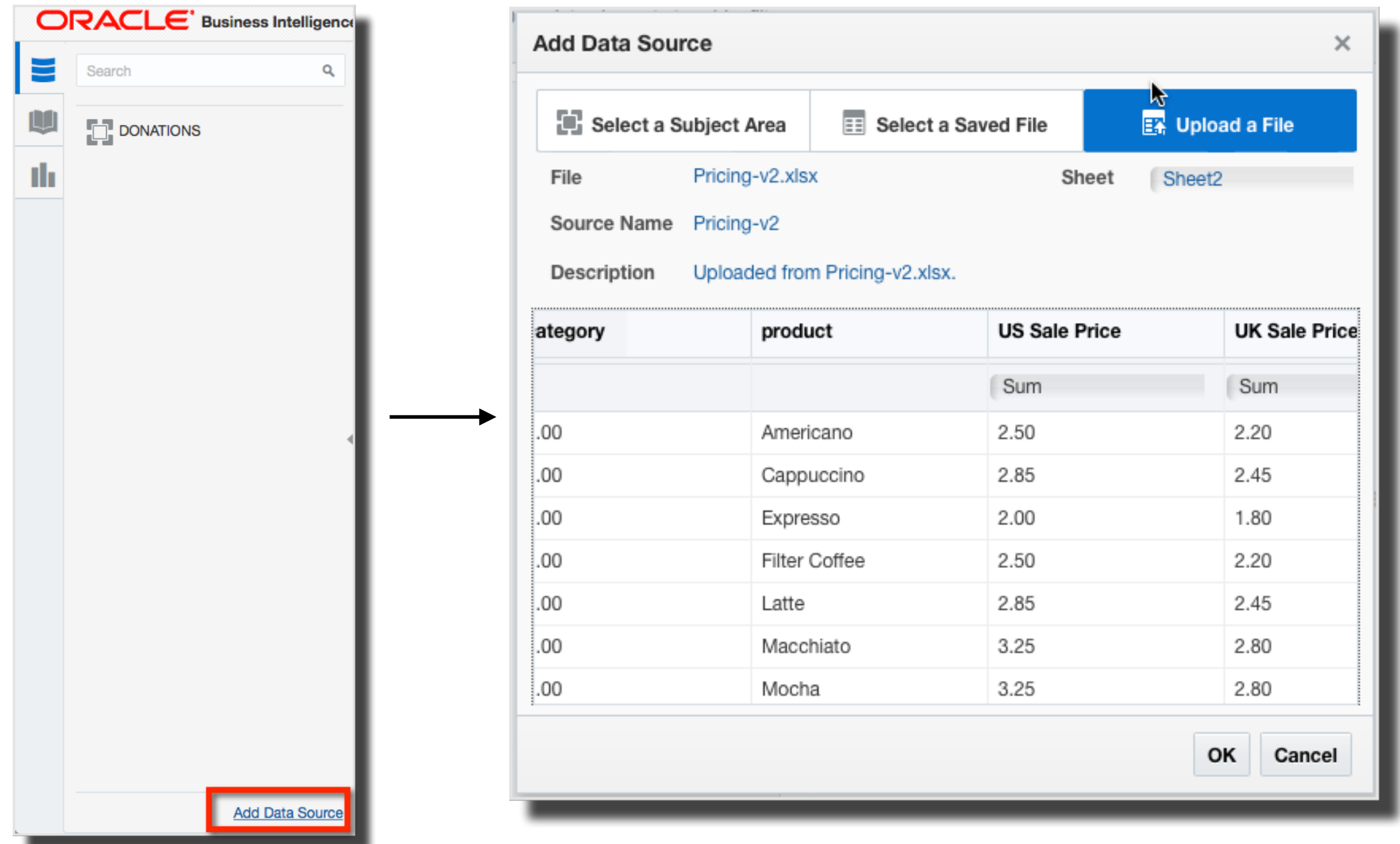
Visual Analyzer

- Herramienta intuitiva para analizar datos orientado a usuarios de negocio
- En el mismo lugar agregamos las dimensiones y las medidas
- En un mismo proyecto podemos crear distintas visualizaciones



Data Mashups

- Permite al usuario subir y combinar contenido de planilla excel con una subject area del RPD.
- Accesible desde Visual Analyzer

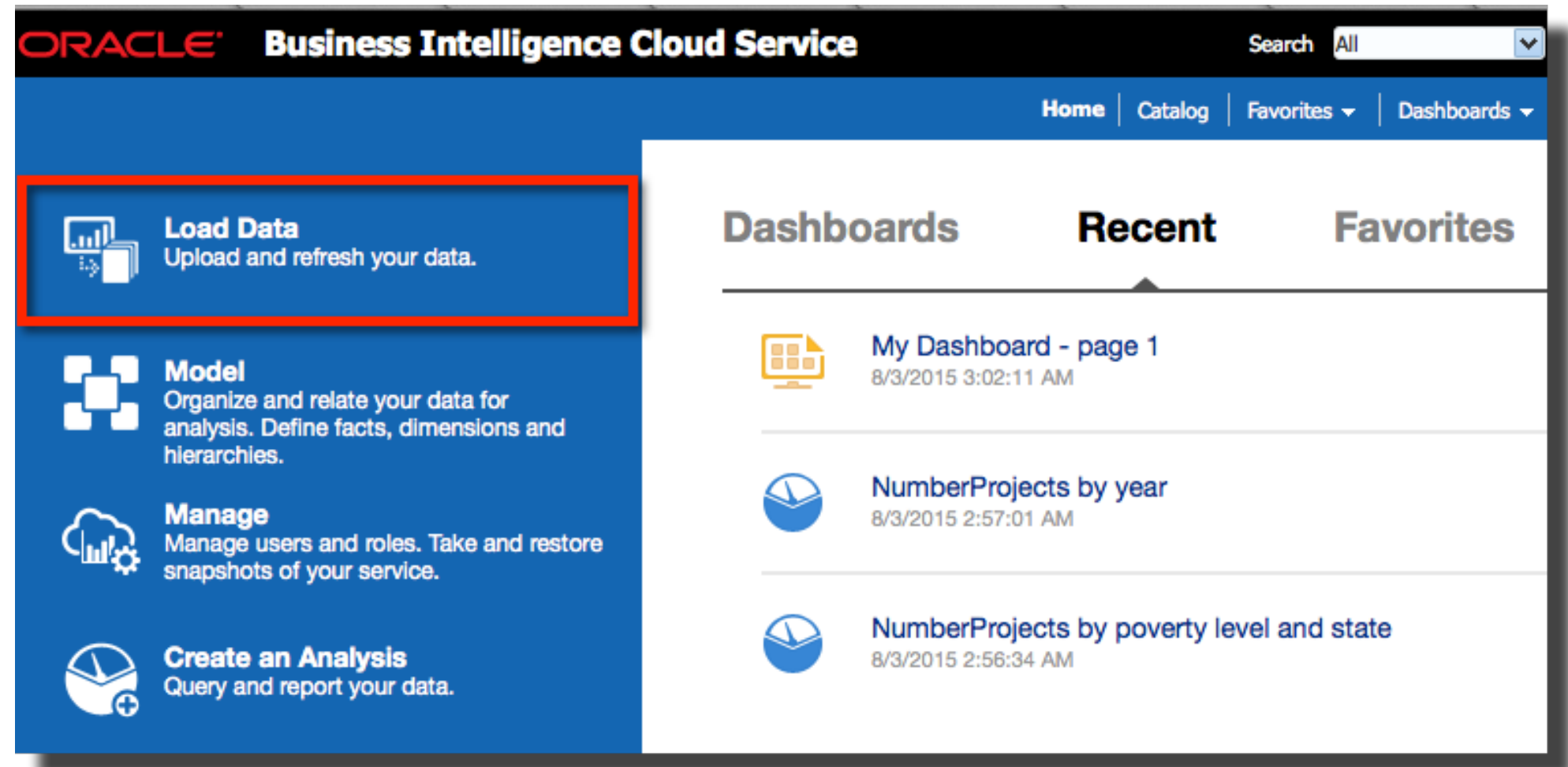


Cómo subir Datos a BI Cloud?

- Se pueden subir datos a BI Cloud utilizando alguno de estos métodos:
 - ▶ BI Cloud Services Data Loader
 - ▶ SQL Developer
 - ▶ Data Sync
 - ▶ Apex front-end Tools
 - ▶ Oracle Data Integrator (ODI)

OBICS Data Uploader

- Es una aplicación Apex que viene con DB Cloud Service para BICS
- Método recomendado para subir cantidad de datos reducida
 - ▶ CSV, texto
 - ▶ Excel files
 - ▶ Formato limitado de los datos.



OBICS Data Uploader: Step 1

- Presionar Upload para subir los archivos requeridos
- El contenido del archivo aparece una pantalla de Preview
- Opciones para ignorar cabeceras
- Opción para seleccionar el carácter de delimitación

Data Loader Home Load Data Administration Help mark.rittman@rittmanmead.com Logout

Cancel Progress: Select Data (active) Select Destination Review Next >

Select the data you want to load into the database. You can paste data from the clipboard or upload data from a file. Supported file types are .xlsx, .xls, .csv, .txt, and .zip. If you upload a .zip file, only the first non-hidden, .csv or .txt file inside will be decompressed and processed. Regardless whether you paste in data or upload data from a file, all data values must be separated by commas, pipe (|) or tab characters.

Clear Upload... geog_dest.txt Ignore the first 0 lines ☒ The first line contains header names Delimiter Pipe

ALZ|Lazy Bay, AK: Alitak Sea Plane Base|Lazy Bay, AK|Alaska|10278

AMA|Amarillo, TX: Rick Husband Amarillo International|Amarillo, TX|Texas|10279
AMK|Durango, CO: Animas Air Park|Durango, CO|Colorado|10285
AMN|Alma, MI: Gratiot Community|Alma, MI|Michigan|10288
AMW|Ames, IA: Ames Municipal|Ames, IA|Iowa|10294
ANA|Anaheim, CA: Anaheim-Disneyland Helipad|Anaheim, CA|California|10297
ANB|Anniston, AL: Anniston Metro|Anniston, AL|Alabama|10298
ANC|Anchorage, AK: Ted Stevens Anchorage International|Anchorage, AK|Alaska|10299
AND|Anderson, SC: Anderson Regional|Anderson, SC|South Carolina|10300
ANI|Aniak, AK: Aniak Airport|Aniak, AK|Alaska|10304
ANP|Annapolis, MD: Lee|Annapolis, MD|Maryland|10309
ANV|Anvik, AK: Anvik Airport|Anvik, AK|Alaska|10313
AOH|Lima, OH: Lima Allen County|Lima, OH|Ohio|10317
AOO|Altoona, PA: Altoona-Blair County|Altoona, PA|Pennsylvania|10322
AOS|Amook Bay, AK: Amook Bay Airport|Amook Bay, AK|Alaska|10324
APA|Denver, CO: Centennial|Denver, CO|Colorado|10325

OBICS Data Uploader: Step 2

- Seleccione una nueva tabla o alguna existente para subir los datos
- Las columnas de archivo son mapeadas a columnas de la tabla
- Se puede cambiar el nombre de la columna y formatos simples de columna

Data Loader Home Load Data Administration Help mark.rittman@rittmanmead.com Logout

Back Cancel Select Data **Select Destination** Review Next >

Specify where to load your data. You can add records to an existing table or create a new one.

Data Destination ☐ Existing Table ☒ New Table ADL_43

Table Column Mapping

Data Column Name	Data Sample Value	Data Transformation	Transformed Data Sample Value
ASW	OTT	✓ - Select - Uppercase Lowercase Trim spaces Format as a number	OTT
SUNRIS E_AIRLI NES_IN C.	Otter Air		Otter Air

row(s) 1 - 2 of 2

Data Loader Home Load Data Administration Help mark.rittman@rittmanmead.com Logout

Back Cancel Select Data **Select Destination** Review Next >

Specify where to load your data. You can add records to an existing table or create a new one.

Data Destination ☒ Existing Table ☐ New Table

Table Column Mapping

Please select a table from the list above

- ✓ - Select a Database Table -
- ADMIN_ACCOUNTS_TRANS
- ADMIN_ACCOUNT_TRANS
- ADMIN_LAST_MODIFIED_DATE
- ADMIN_LOGS
- ADMIN_OBJECT
- ADMIN_SQL
- ADMIN_STEPS
- BICS_REVENUE_FT2**
- CLOUD_TIME
- DEMO_CONSTRAINT_LOOKUP
- DEMO_CUSTOMERS
- DEMO_ORDERS
- DEMO_ORDER_ITEMS
- DEMO_PRODUCT_INFO

OBICS Data Uploader: Step 3

- Hacer un preview con toda las transformaciones y nombres finales
- Subir archivos a Database Cloud services

Home

Load Data

Administration

Help

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Logout

Back

Cancel

Select Data

Select Destination

Review

Next

Click Next to load the data below to the "airlines" table.

NOTICE: Very large data rows or cells may be trimmed in preview.

IMPORTANT: When adding records to an existing table it is important to correctly match columns.

Rows to be Inserted

AIRLINE_CODE

OTT

OV

OW

OWQ

OWS

OZ

OZ (1)

Home

Load Data

Administration

Help

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Logout

Home

Use the links below to view all records processed, or only those inserted, updated, or not loaded by a past data load.

Go

Load Data

Date	User	Destination Table	Inserted Records	Updated Records	Not Loaded Records	Processed Records
13-SEP-2014 18:22:28	mark.rittman@rittmanmead.com	airlines	1539	0	0	1539
10-SEP-2014 12:17:05	mark.rittman@rittmanmead.com	DESTINATIONS	2153	0	0	2153
28-AUG-2014 11:07:03	lisa.perols@oracle.com	lisa_test	5147	0	0	5147
28-AUG-2014 09:07:39	lisa.perols@oracle.com	PAAS_OPTIES	2041	0	0	2041
20-AUG-2014 17:09:54	richard.stang@oracle.com	FACT_DATA	10608	0	0	10608

Modelando los Datos con BI Cloud Data Modeler

- El data Modeler trabaja con el RPD (repositorio) online
- El repositorio es uno por tenant
- Tiene algunas restricciones comparado con el RPD de OBIEE
 - ▶ Un sólo LTS por cada tabla lógica
 - ▶ No se permiten Alias, hay que crear vistas en la base de datos.
 - ▶ Un sólo business model
 - ▶ Sólo cálculos basados en columnas lógicas

Pasos para trabajar con el BI Cloud Data Modeler

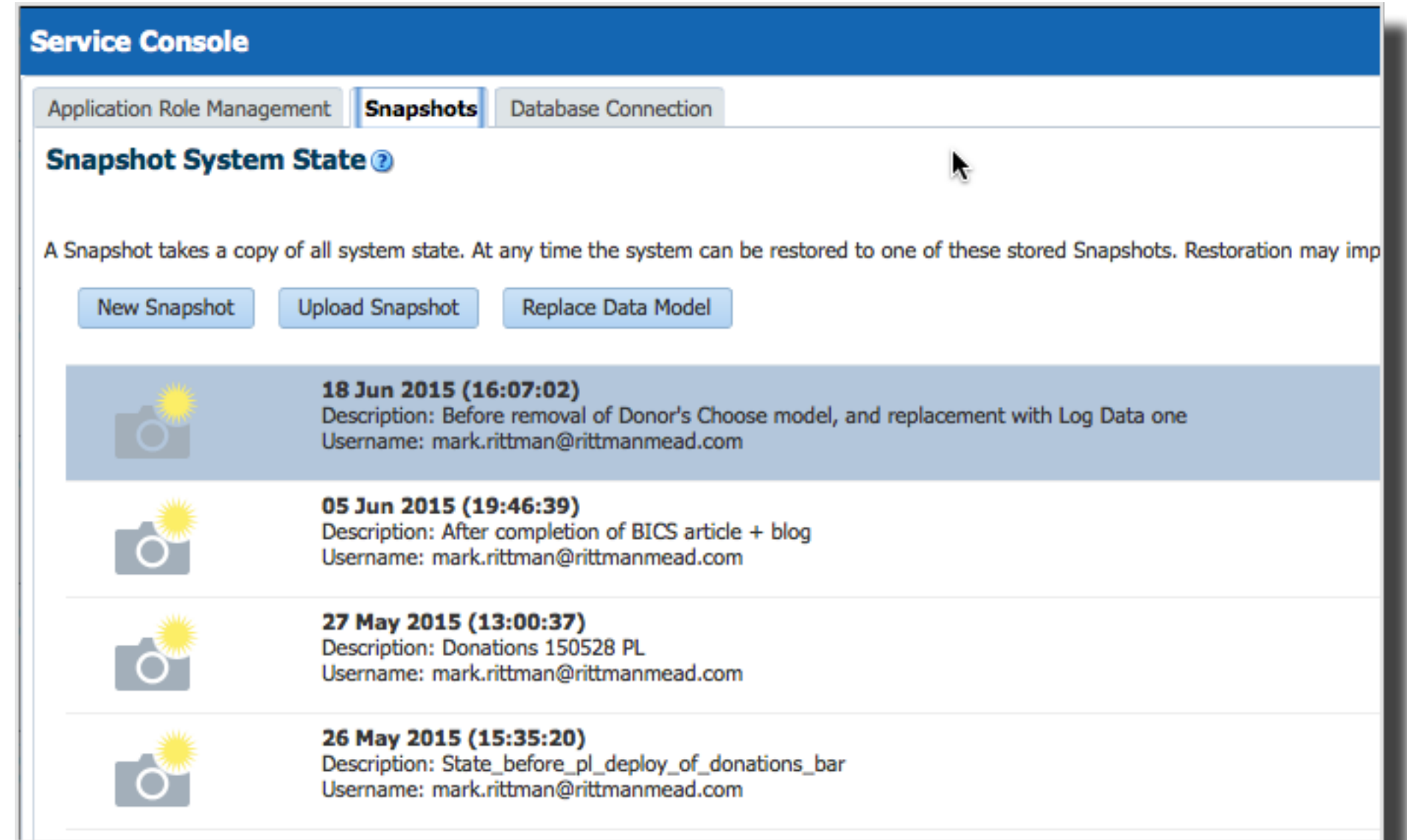
1. Agregar las tablas al Database Cloud Service utilizando el data uploader
2. Lock Model (RPD)
3. Agregar joins si no que se no se crean en forma automática
4. Agregar (crear) una nueva dimension o fact table (tabla de hechos)
5. Dar formato lógico a los nombres de las columnas
6. Agregar cálculos y agregaciones
7. Agregar jerarquías
8. Publicar el modelo y unlock

Modelando los Datos con BI Cloud Data Modeler

The screenshot displays the Oracle Business Intelligence Cloud Service dashboard. On the left, there are three main action cards: "Load Data" (Upload and refresh your data.), "Model" (Organize and relate your data for analysis. Define facts, dimensions and hierarchies.), and "Manage" (Manage users and roles. Take and restore snapshots of your service.). The "Model" card is highlighted with a red rectangle. To the right, the "Data Modeler" tool is open, showing a database schema named "DONATIONS". The schema includes a list of tables on the left, such as BICS_REVENUE_FT2, CLOUD_D_CUSTOMERS, CLOUD_D_GEOGRAPHY, etc. The central pane shows the "Fact Tables" and "Dimension Tables" sections. The "Fact Tables" section lists FFL_PLAYER_POINTS and FACT. The "Dimension Tables" section lists FFL_TEAMS, FFL_PLAYERS, POSTEDDATE, SCHOOL, FFL_OPPONENTS, PROJECT, and TEACHER. Below these, the "Joins" section shows relationships between fact and dimension tables, such as FACT joined to SCHOOL on the column # OF SCHOOLS.

Administración de BICS

- Todo el sistema de BI Cloud puede ser salvado mediante snapshots (RPD, catalog) donde las versiones se guardan en línea
 - ▶ No incluye los objetos en el DB schema as a service (en la Cloud)
- Bajar y subir snapshots
 - ▶ Ideal para migración en producción
 - ▶ Restaurar snapshots para versionamiento
 - ▶ Importante: sobrescribe el contenido del repositorio



Administración y Manejo de Usuarios en BICS

 **Business Intelligence Cloud Service**

Home

**Load Data**
Upload and refresh your data.

**Model**
Organize and relate your data for analysis. Define facts, dimensions and hierarchies.

**Manage**
Manage users and roles. Take and restore snapshots of your service.

**Create an Analysis**
Query and report your data.

Dashboards

 **My Dashboard - pag**
8/3/2015 3:02:11 AM

 **NumberProjects by**
8/3/2015 2:57:01 AM

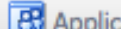
 **NumberProjects by**
8/3/2015 2:56:34 AM

Service Console

Application Role Management | Snapshots | Database Connection

 Users

 Roles

 Application Roles

 **Application Roles** ?

Name Filter  Search

Search application role names and display names for a contained sub-string. Use empty for all.

 Create Application Role

 Edit Application Role

 Delete Application Role

Display Name	Name	Description
No data to display		

 **Members**

 Parents

 Edit Members

Display Name	Name	Description
No data to display		

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Limitaciones y Ventajas de BICS

- Limitaciones

- ▶ No tiene todas las features que OBIEE on-premise
- ▶ Solamente dos instancias: pre-prod (desarrollo) y producción.
- ▶ Espacio almacenamiento del esquema de base de datos: 50G

- Ventajas

- ▶ Reduce la complejidad de OBIEE
- ▶ Las new features de cada versión de BI van a estar antes en Cloud que en on-premise
 - Ejemplo: Visual Analyzer y Data Mashups
- ▶ Proceso de Upgrade y Patching está a cargo de Oracle

Información Adicional

- Rittman Mead blog posts
 - ▶ <http://www.rittmanmead.com/2015/06/new-in-oracle-bi-cloud-service-oracle-visual-analyzer-and-data-mashups-in-v/>
 - ▶ <http://www.rittmanmead.com/2015/07/oracle-data-integrator-to-load-oracle-bics-and-oracle-storage-cloud-service/>
 - ▶ <http://www.rittmanmead.com/2014/09/introduction-to-oracle-bi-cloud-service-product-overview/>
- A-team Blog site
 - ▶ <http://www.ateam-oracle.com/lift-and-shift-on-premise-rpd-to-bi-cloud-service-bics/>
- BI Cloud en OTN
 - ▶ <http://www.oracle.com/technetwork/middleware/bicloud/overview/index.html>

Preguntas?



Muchas GRACIAS!

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