



Autonomous Data Warehousing in the Real World: A Case Study

Oracle OpenWorld 2018

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@dxmarketing, @VlamisSoftware



Presentation Agenda

- Background on DX Marketing Vlamis relationship
- Need for and goals for pilot project
- Background on ADW
- Demo of setting up ADW and loading test data
- Demo of results of ADW DVD connection
- Next steps
- Recap of what we showed
- Q&A





Presenter Background

Dan Vlamis – President

- Founded Vlamis Software Solutions in 1992
- 30+ years in business intelligence, dimensional modeling
- Oracle ACE Director
- ACE Director
- BIWA Board Member since 2008
- @dvlamis

Ray Owens

- CEO and founder of DX Marketing
- Experienced in startups and specialist in marketing strategy
- Two Oracle Excellence awards for platform development

Jerry Gearding

- CTO at DX Marketing
- 25+ Years IT experience
- 20+ Years experiencing working with Oracle technologies
- Member of the Oracle Big Data Leaders Advisory group





Vlamis Software Solutions

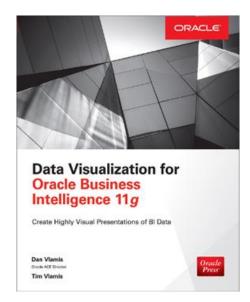
- Vlamis Software founded in 1992 in Kansas City, Missouri
- Developed 200+ Oracle BI and analytics systems
- Specializes in Oracle-based:
 - Enterprise Business Intelligence & Analytics
 - Analytic Warehousing
 - Data Mining and Predictive Analytics
 - Data Visualization
- Multiple Oracle ACEs, consultants average 15+ years
- <u>www.vlamis.com</u> (blog, papers, newsletters, services)
- Co-authors of book "Data Visualization for OBI 11g"
- Co-author of book "Oracle Essbase & Oracle OLAP"
- Oracle University Partner
- Oracle Gold Partner





Specialized

Specialized
Oracle Business Intelligence
Foundation Suite 11*g*







What Do We Do?

THE DXM PLATFORM - XactAudience®

Five ways data is used to inform marketing decisions

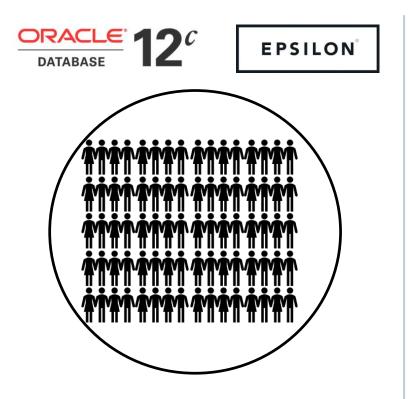
DXM provides growing companies affordable access to enterprise level data and analytics so they can make marketing investments with greater confidence and compete more effectively.



What fuels DX Marketing's platform? Three Oracle Pillars.



Combining access to the some of the industry's biggest and best data



Largest U.S. Consumer Dataset

Accessing over 260 million consumer records and building custom prospect audiences based on precise demographics and lifestyle attributes. Real people - not anonymous IDs.



Connecting to "Sally Shopper"



Largest Digital ID Graph

Our ID graph is **built on REAL people's everyday actions and transactions** and reaches over 90% of the online population. Connects your prospect audience to their online identities





Largest DMP – digital exchange

Together with our data partners, we match audiences using the **best predictor of future purchases**: what people have bought in the past – and what they are currently in market to buy.



Pilot Project

- Followed from DX Marketing Vlamis project on simplifying loading and transforming data for DX Marketing
 - Moved data back and forth multiple web services
 - Simplified using web calls using OIC with Oracle database as hub
 - DX Marketing wanted to simplify DBA role as well
 - Need to accelerate multiple client projects
 - Limited technical resources
- Goal of the pilot project
 - Test out Autonomous Data Warehouse
 - Test out ability of non-technical people to do analysis without DBA involvement





Autonomous Data Warehouse Intro

- Easy
 - No DBA activities required
 - Only 4 things to know to set up
 - # of CPUs to start with
 - Size of database to provision (independent from # CPUs)
 - Password for admin account
 - Do you have an Oracle database license?
 - Automatically backed up
- Fast
 - Uses Exadata storage indexes fast hardware
 - Don't need to create indexes
 - Can instantly change # CPUs from 1 to 128
- Elastic
 - Can suspend to save money, scale up / down easily
- Connect using all sorts of client tools
 - SQL Developer
 - Zeppelin Notebooks (built for machine learning scripts)
 - Data Visualization Desktop





Demonstrations



- Creating and loading Autonomous DW
- Analysis possible using Data Visualization Desktop



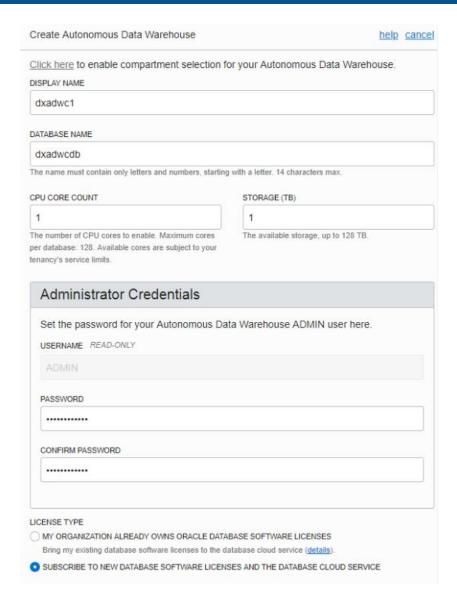
Provisioning Steps

- 1) Create Oracle Cloud Account
- 2) Go to "My Services" Dashboard
- 3) Choose "Services" and Autonomous Data Warehouse
- Click "Create Autonomous Data Warehouse"
- 5) Choose the Name, CPUs/Storage and the Admin password
- 6) Click Create ADW.

Provision time: 5 minutes







- > Instance Name
- > DB Name
- > # CPUs and Storage

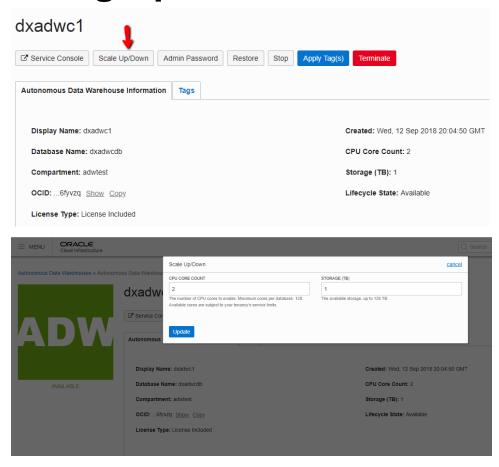
Admin Password

> Licensing





Scaling Up or Down

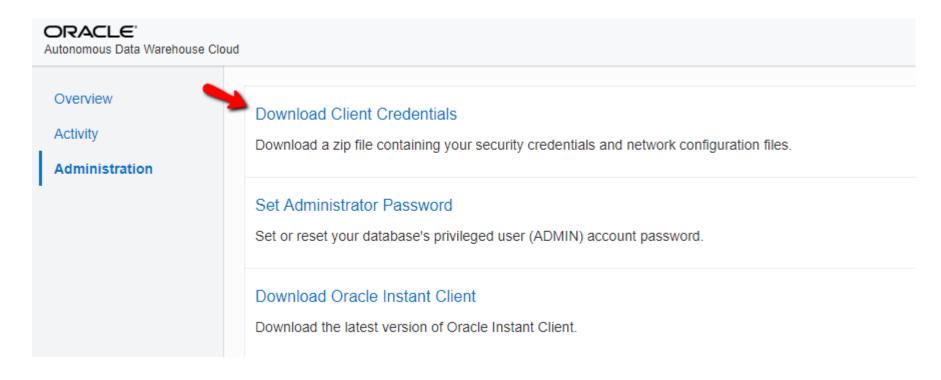






Download Wallet File

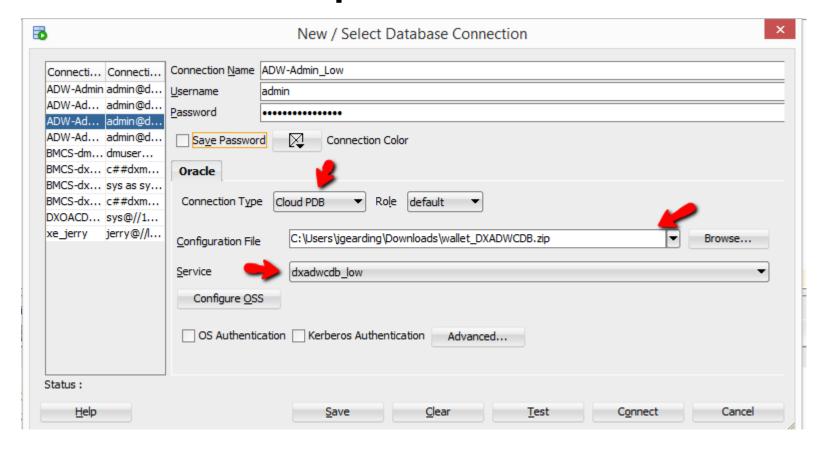
- Click Service Console
- Choose Administration Tab
- Click Download Client Credentials







Connect SQL/Developer



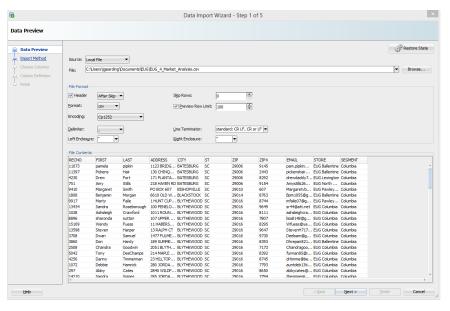


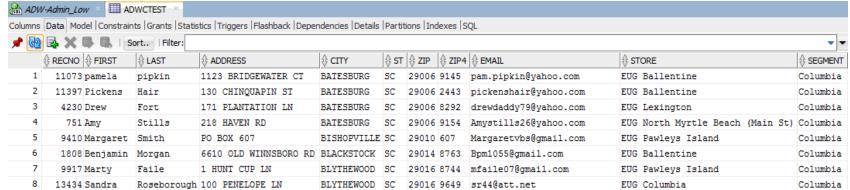


Import Data

Can also use:

- SQL Loader
- Data Pump
- External tables

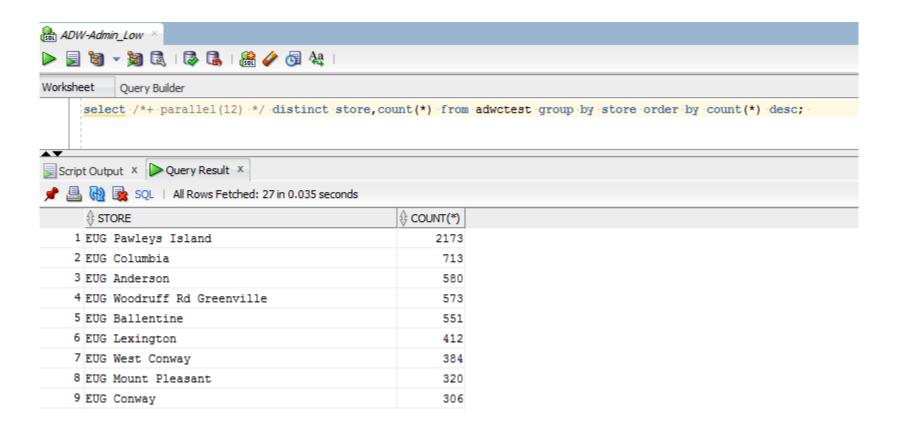








Query Table







Business Value & Next Steps

Next steps

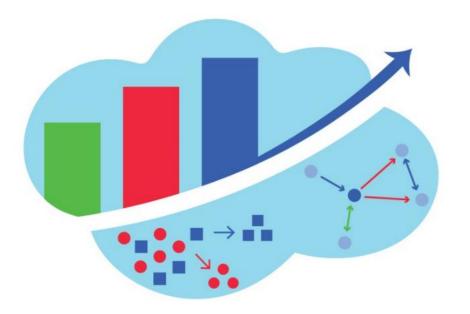
- DX Marketing wants to use as a sandbox for its analysts
- DX Marketing considering moving all of its marketing content to ADW
- Allowing non-technical people to analyze without DBA intervention
- Business Value of Pilot
 - Plan on speeding execution of new client projects creating new DWs
 - From 3 weeks to 1 week
 - Eliminates need to expand technical staff
 - Save on money
 - Monetize with additional account service staff
 - Fast access to data
 - Analysts can create presentations of data in a matter of minutes/hours
 - Refreshing data is now easy





- Recap of what we showed
 - Easy to set up
 - Fast to deliver
 - Great performance
 - No technical DBA skills required to analyze and extend
 - Analyze data within minutes



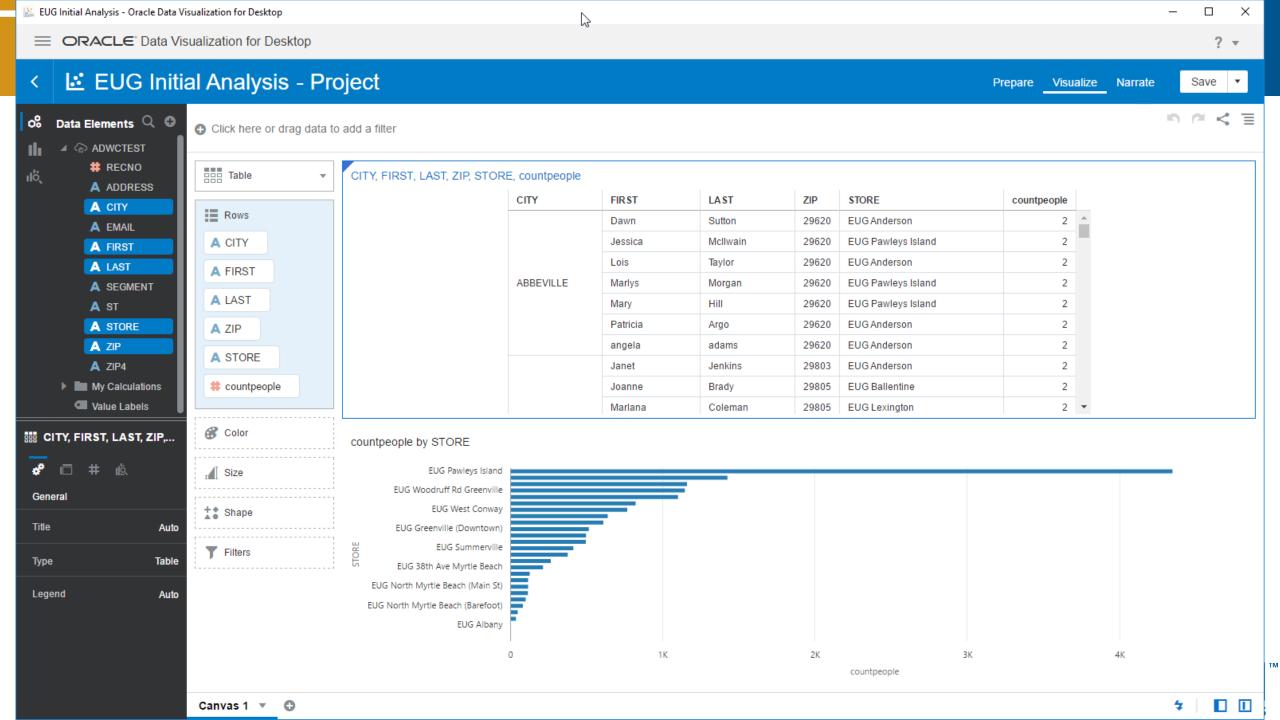


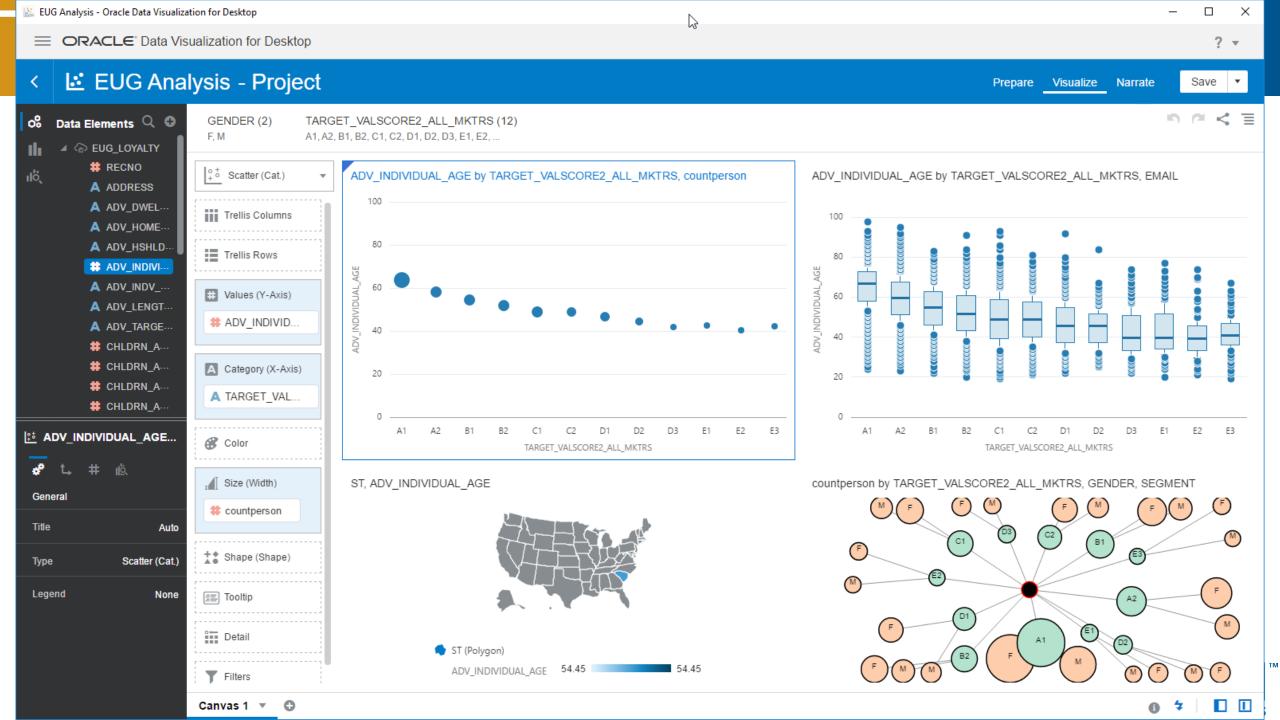
Analytics and Data Summit

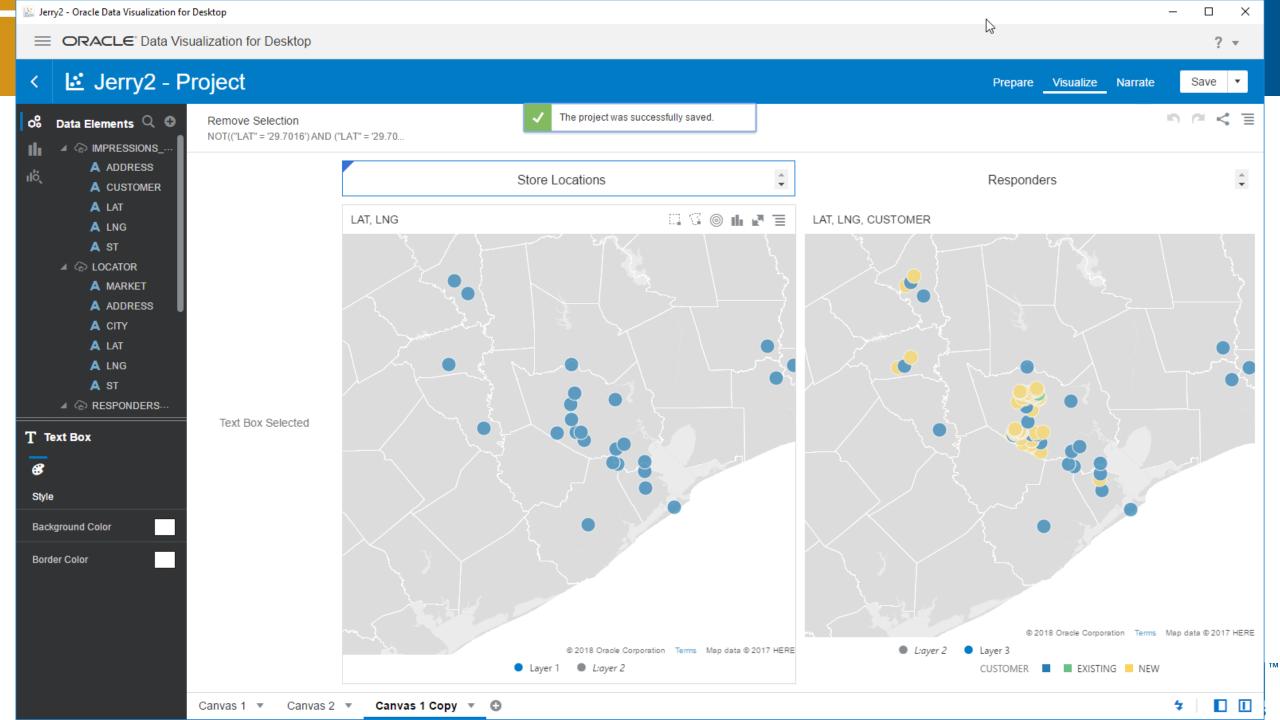
All Analytics. All Data. No Nonsense. March 12 – 14, 2019

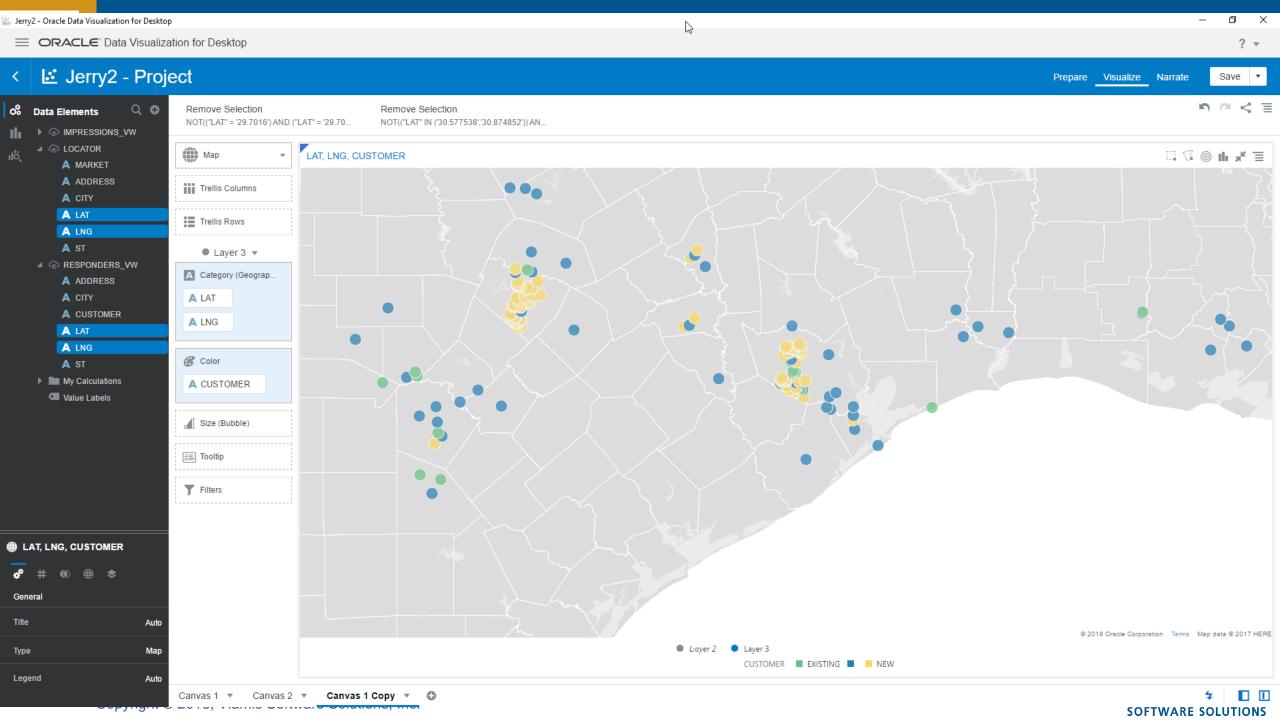












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https://go.oracle.com/Autonomous-DW

https://go.oracle.com/Autonomous-TP

^{*} Trial expires upon usage of 3300 CPU hours or trial has reached 30 days, whichever comes first.



Previously recorded as part of Think Autonomous series Oracle.com/ThinkADB



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Questions?

