acle Essbase 21c: On-Premises and Cloud Reuni

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RACLE

ture and Past chCasts:

Feb 16-18

Winter TechCast Days

Presented by **AnDOUC**

Mar 4th

Making the Most of OAC and Oracle Machine Learning Native Integration

Presented by **Philippe Lions**

Mar 18th

Graph Studio in Oracle A Database

Presented by **Hans Viehmann & Ja**

chCast Archive

020

019

Date	Title	Speaker(s)	Video Replay	Slides
Feb 20, 2020	Graph Database and Analytics	Melliyal Annamalai	Video	Slides
Feb 06, 2020	Preview content of A&D sessions on OAC	Philippe Lions, Matt Bedin	Video	Slides
Jan 23, 2020	Customer Journey, From Vision to Delivery	David Heraty	Video	Slides

Submit a topic to share at **https://analyticsanddatasummit.org/techcasts/**

BIWA

Formerly called the BIWA Summit with the Spatial and Graph Summit
Same great technical content…new name!
www.AnalyticsandDataSummit.org

Oracle Spatial & Gr

Analytics and Data
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TechCast Days

Save the Date

TechCast Days – Spring Session

May 11, 12, 13, 2021

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- Artificial Intelligence and Machine Learning
- Big Data
- Business Analytics
- Data Warehousing and ETL
- Emerging Technologies
- General
- Spatial and Graph

SUBMIT AN ABSTRACT

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Slack: **hthttps://join.slack.com/t/andouc/shared_invite/zt-jbuhzn9u-UCiWAbvHGkhkCADkhPuOEA**

Newsletter: **https://paper.li/e-1587156323#/**

LinkedIn: **https://www.linkedin.com/company/analytics-and-data-oracle-user-community**

Twitter: **@AnalyticandData**

Facebook: https://www.facebook.com/AnDOracleUserCommunity/

sbase 21c – There and Back Again

ssbase - Est. 1992
ssbase On-Premises last Patch Release 2016 (11.1.2.4)
nnouncement of End of 11.1.2.4 Premier Support
PM 11.2* (December 2019) extends Premier Support
ssbase in Oracle Analytics Cloud – March 2017 (PaaS model)
ssbase 19c on OCI - September 2019 (IaaS model)
ssbase 21c On-Premises – December 2020 (Linux Now)
ssbase 21c on OCI – Late Q1 / Early Q2 2021 (IaaS model)
ne codeline again!

w Features – Overview

	Full Hybrid "Gen 1"	Job Paradigm	Sandbox Scenario Management	Full Coverage REST API	Cube Designer SV Extension	Independent Drill-Through	Dynamic Filters	Modern Web UI	Paralell Restructuring	Centralized Relational Connections	Secure Access Only	Shadow Cubes	Full Hybrid "Ge
Essbase 19c													
Essbase 21c													

w Features – Hybrid Mode “Gen 1”

ock Storage

Dense / Sparse Paradigm
Handled Data Explosion and Storage
Query Performance via Pre-Calculation
Rich Procedural and Dynamic Calculation Language
Ideal for FP&A Applications

ggregate Storage

Handles very large dimensions
Very sparse datasets
MDX as Procedural and Dynamic Calculation Language
Rack and Stack

w Features – Hybrid Mode “Gen 1”

ybrid – Best of Both Worlds?

- BSO Cubes with ASO-Like Query Processor
- Implemented via “dynamic calc” sparse dimension members / configuration settin
- Reduced or no calculation time
- Steadily increasing function coverage
- Functional limitations especially pre-Cloud
- Size Limitations

w Features – Hybrid Mode “Gen 2”

lmost) Full Coverage

etter Dependency Analysis – Faster, Larger Cubes

ew tools to assist design – Stored / Dynamic Tradeoff

w Features – Shadow Cubes

hadow Cube Methodology

- Run “live” cube
- Update “shadow” cube
- Switch them around

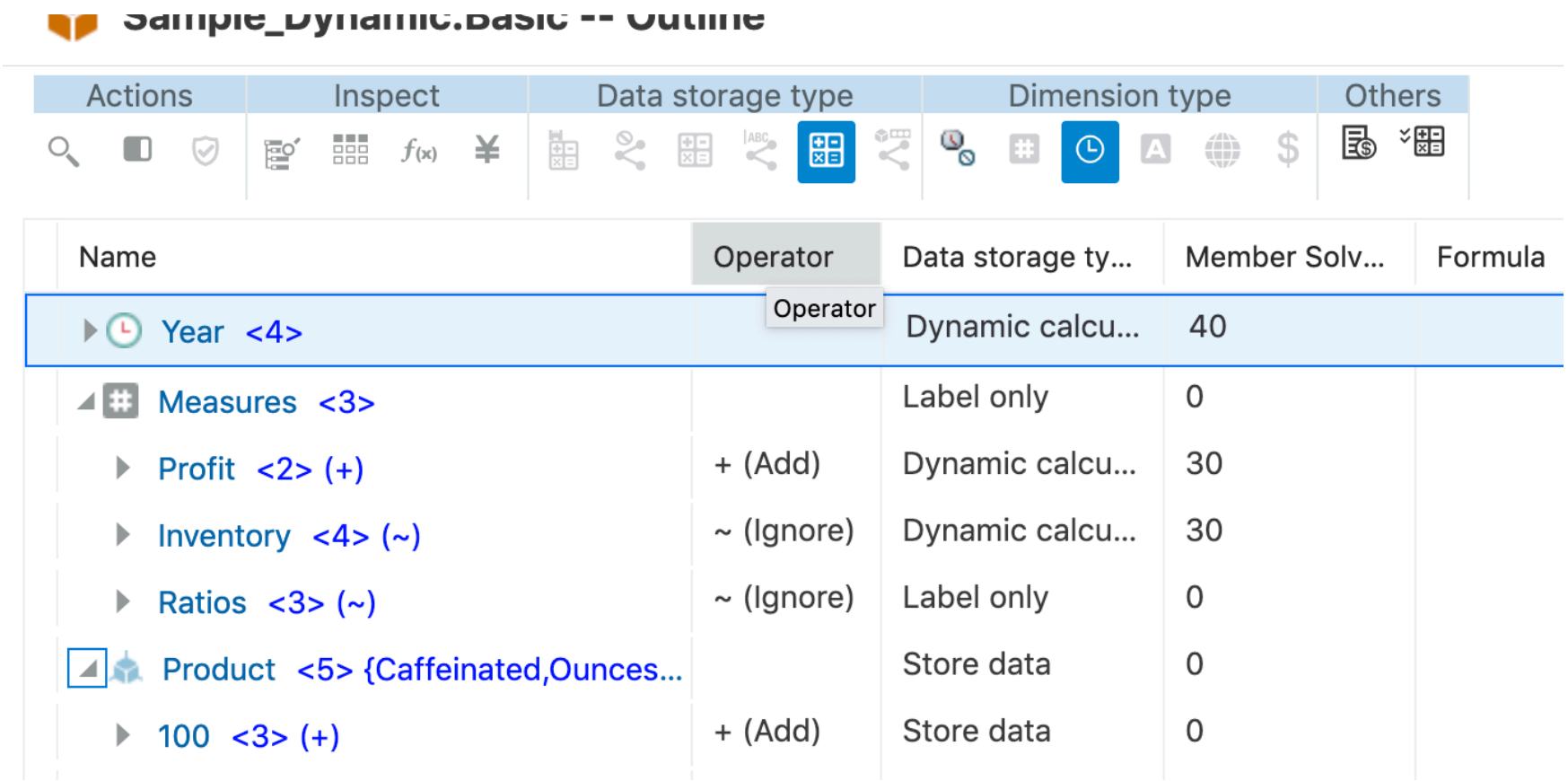
lany customers built this manually

ow incorporate more slickly into the product

utomatable via the REST and Java APIs

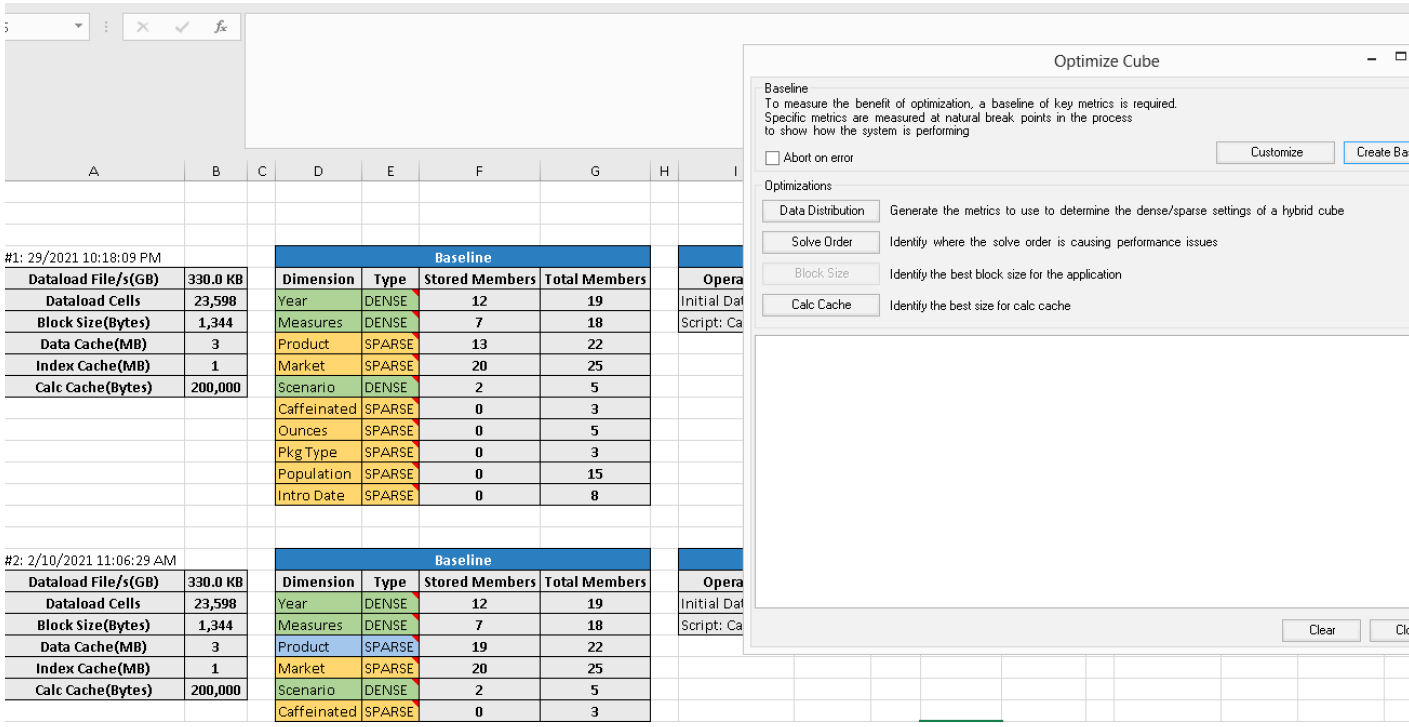
w Features – Modern Web UI Enhancements

specially Outline Editing – getting there!



w Features – Cube Designer Enhancements

Optimization Utilities
Data Distribution
Solve Order
Baseline
Calc Cache Sizing



#1: 29/2021 10:18:09 PM

Dataload File/s(GB)	330.0 KB
Dataload Cells	23,598
Block Size(Bytes)	1,344
Data Cache(MB)	3
Index Cache(MB)	1
Calc Cache(Bytes)	200,000

Baseline

Dimension	Type	Stored Members	Total Members
Year	DENSE	12	19
Measures	DENSE	7	18
Product	SPARSE	13	22
Market	SPARSE	20	25
Scenario	DENSE	2	5
Caffeinated	SPARSE	0	3
Ounces	SPARSE	0	5
Pkg Type	SPARSE	0	3
Population	SPARSE	0	15
Intro Date	SPARSE	0	8

#2: 2/10/2021 11:06:29 AM

Dataload File/s(GB)	330.0 KB
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Baseline

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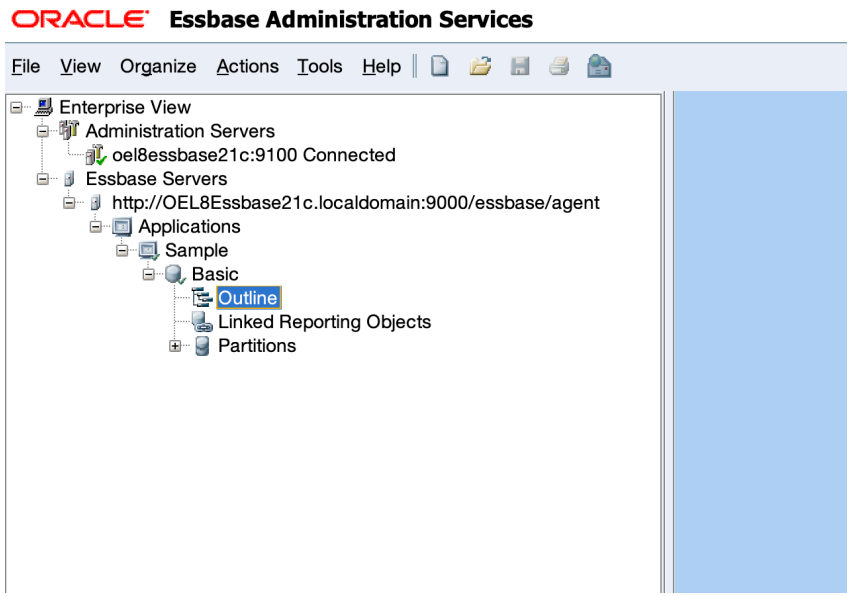
Market	SPARSE	20	25
Scenario	DENSE	2	5
Caffeinated	SPARSE	0	3

w Features – Old Features

pplicable for non-OCI Marketplace Deployments
ssbase Administration Console (EAS) “Lite”
hared Services Security (requires an independent Shared Serv
stance)



cing and Hosting – Consumption Based (OCI Only)

ourly rate per OCPU

xact price varies dependent on contract model

Monthly Flex

Pay as You Go

dd Storage / Networking / Compute and Repository

ps://www.cubecoder.com/essbase-19c-pricing-options/

cing and Hosting – On-Premises License Types

PU licensing like for like on-premises
ser-Based Licensing like for like on-premises
PU licenses convert to 2 OCPU on OCI
ser-Based Licensing like for like on OCI (great way to get start
enchmark etc)
dd Storage / Networking / Compute and Repository

gration – Deployment Options

CI Marketplace

Autonomous Transaction Processing Repository by Default

CI “Customized” (Terraform scripts on Github)

n-Premises or Other Cloud Host

RHEL / OEL 7 or 8

Database Prerequisite

Download and Install FMW

Download and Install Essbase (eDelivery only)

gration – Security

ligrate Security First

n-Premises Targets

Shared Services

Weblogic

External Authentication Provider configurable in either Shared Services or Weblog

oud Targets

IDCS

hared Services to Shared Services via LCM

hared Services to Weblogic via LCM with Manual Edits (see do

ligration Utility (downloadable from 21c instance) for OAC / 1

21c OCI

gration – Applications

om On-Premises to Cloud or On-Premises

Life Cycle Management using the 21c version of LCM

- Export with LCM
- Import via UI or using Essbase CLI

DBX Export (Cube Designer format)

- Export with DBX Export utility
- Import via UI or using Essbase CLI
- Does not convert all artifacts

om Cloud to Cloud

Migration Utility

- Moves *everything* – clean up first

Essbase CLI (Command Line Interface) – one application at a time

- Produces LCM Export
- Import with CLI or UI

gration – Automation

laxL scripts continue to work but new MaxL client is required
va API code continues to work
pdate Essbase connection strings
atabase Sources / Connections will need to be configured
le moves can be securely automated with Essbase CLI
oud to Cloud minimal changes
onsider… …REST API (especially) and Essbase CLI possibilities

mmary

ne single future-proof codeline again!
ompelling features (especially Hybrid Mode)
ots of tools / utilities to ease migration
amiliar user experience on migration

&A

lpful Links

LE ESSBASE 21C

//docs.oracle.com/en/database/other-databases/essbase/21/index.html

ASE 21C CERTIFICATION MATRIX

//docs.oracle.com/en/database/other-databases/essbase/21/essst/certification-matrix.html

ASE 21C PLATFORM AND NEW FEATURES

//docs.oracle.com/en/database/other-databases/essbase/21/essst/what-is-oracle-
se.html#GUID-1EE793F5-7C16-4261-ADF9-AD47E06F52C7

ASE 21C "GETTING STARTED"

//docs.oracle.com/en/database/other-databases/essbase/21/essst/how-do-i-get-started.html#GUID-9F8AA
4E72-9E4C-6EDDD2DB1B22

LE SMART VIEW LATEST VERSION

//www.oracle.com/middleware/technologies/epm-smart-view-downloads.html

KING WITH CUBE DESIGNER

//docs.oracle.com/en/database/other-databases/essbase/21/ugess/work-cubes-cube-designer.html