



regoUniversity 2021
VIRTUAL

Data Model | Advanced

Your Guides:

Luis Palacios & Dave Matzdorf



Introductions

- Take 5 Minutes
- Turn to a Person Near You
- Introduce Yourself
- Business Cards



Agenda

- Project Tables
- Organization Breakdown Structure (OBS)
- Timeslices
- Methods to find database objects

Releases and Updates

- INV_INVESTMENTS now stores custom investment types, can be filtered by ODF_OBJECT_CODE
- Blueprints are stored in ODF_BLUEPRINTS and ODF_ABSTRACT_BLUEPRINTS
- Roadmaps stored in:
 - RDM_ROADMAPS
 - RDM_ROADMAP_ITEMS

Part I: Project Tables



Let Rego be your guide.

Hierarchy Tables

- INV_HIERARCHIES
- INV_HIERARCHIES_FLAT
- PRSUBPROJECT

Baseline Tables

- PRJ_BASELINES
- PRJ_BASELINE_DETAILS
 - USAGE_SUM = Baselined Effort (Act + Remaining Effort) in seconds
 - COST_SUM = Baselined Cost
 - DURATION = Effort duration
 - Note: The details can be linked to the timeslice table

Cost Plan Tables

- FIN_PLANS
- Cost Plan Group Bys
- FIN_COST_PLAN_DETAILS
- FIN_BENEFIT_PLAN_DETAILS
- Plan TSVs

Part II: Organizational Breakdown Structure (OBS)



Let Rego be your guide.

OBS Tables

- PRJ_OBS_TYPES – Stores all OBS's
- PRJ_OBS_OBJECT_TYPES – Contains objects associated to each OBS
- ODF_OBJECTS – Objects that can be referenced by the OBS
- PRJ_OBS_UNITS – Contains all OBS nodes, their parent, and depth
- PRJ_OBS_UNITS_FLAT – A flat representation of parent and child nodes
- OBS_UNITS_FLAT_BY_MODE – A flat representation of all node relations
- PRJ_OBS_ASSOCIATIONS – Relationship between object instances and OBS nodes

OBS Queries

- Resource OBS Associations
- Investment OBS Associations
- Get full OBS Path
- Filter By OBS

Part III: Timeslices



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Storing time-scaled values

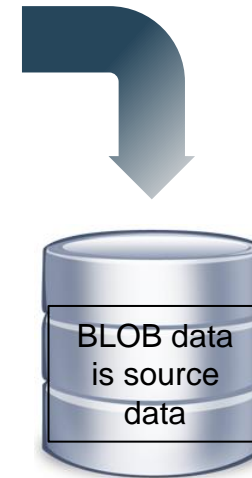
- Time-scaled values stored in a database BLOB
 - Database Data type (Binary Large Object)
 - Cannot be read using sql
 - Able to store multiple data elements

Timesheet

Time Period: 2/27/12 - 3/4/12

Resource Name: Paul Martin
Modified by: Paul Martin
Timesheet Status: Open
Last Modified: 1/23/13 4:09 PM

	Investment	Description	Input Type Code	Mon 2/27	Tue 2/28	Wed 2/29	Thu 3/1	Fri 3/2	Sat 3/3	Sun 3/4	Total	ETC
Tasks												
<input type="checkbox"/>	<input checked="" type="checkbox"/>	eCommerce Portal Complete Project Plan	Regular								0.00	12.00
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Online Order Performance Improvements Define Scope Change and Control Process	Regular								0.00	40.00
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Online Order Performance Improvements Define Resource Plan	Regular								0.00	80.00



Why are BLOBs used

- Pros
 - Hold HUGE amounts of data
 - Compressed to save space
 - Increased performance
 - Used by MSP and OWB
- Cons
 - Cannot be read using SQL

Blob Data

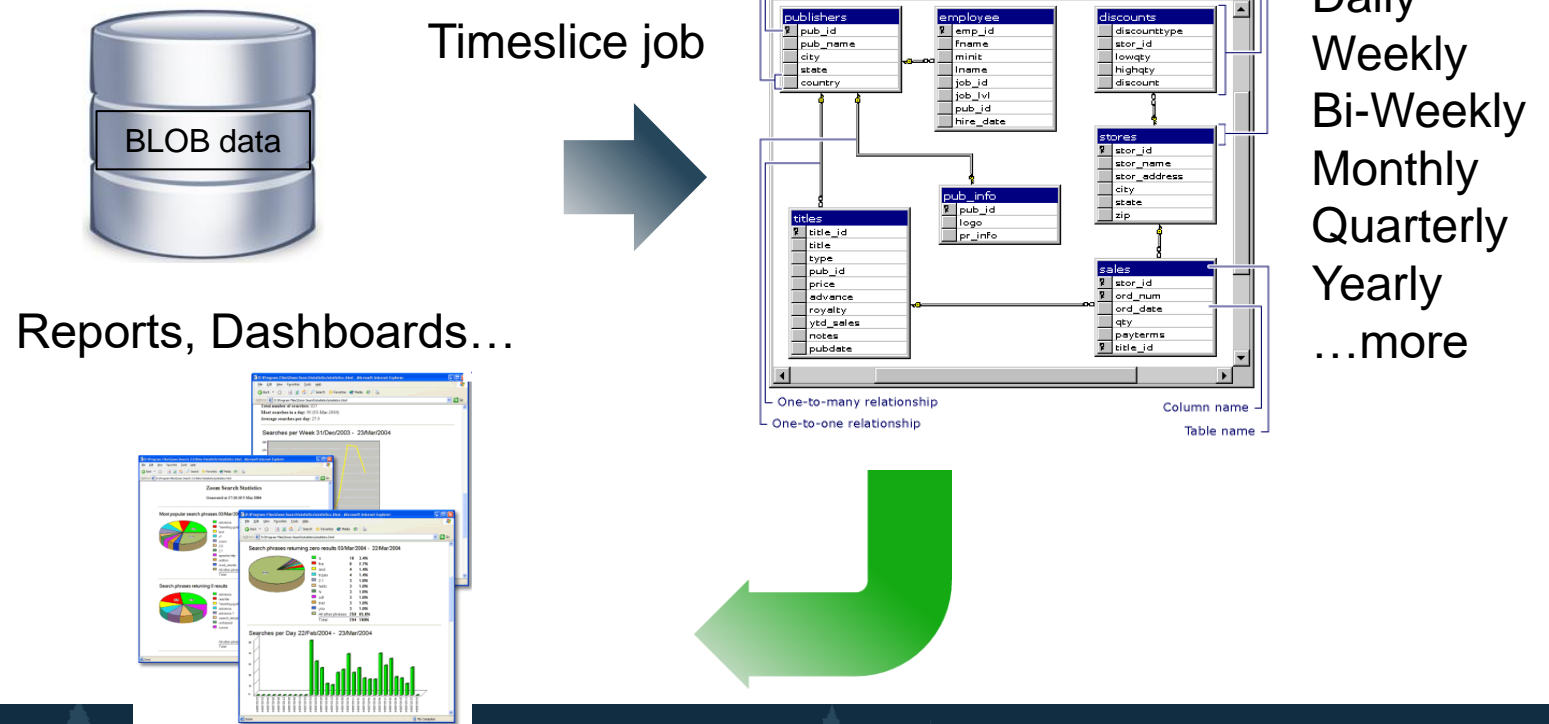
	A
1	BLOB
	10/1/2019-8
	10/2/2019-5
	10/3/2019-12
	10/4/2019-4
	10/5/2019-6
2	10/6/2019-3

Normalized Data

	A	B	C	D	E
1	Slice Date	Slice			
2	10/1/2019	8		Average	6.33
3	10/2/2019	5		Sum	38
4	10/3/2019	12		Max	12
5	10/4/2019	4			
6	10/5/2019	6			
7	10/6/2019	3			

What Is A Timeslice

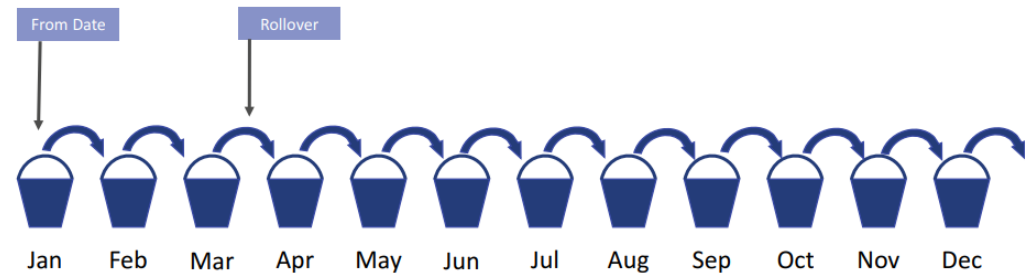
- Timeslices provide a window into BLOB data
- Timeslice job extracts a portion of the BLOB data to normalized tables
 - Defined by timeslice settings
 - Creates normalized tables



Timeslices and Rollover

- Timeslices rollover and only refresh data inside the defined range

TIME SLICE ID	193
* TIME SLICE NAME	DAILY_INCIDENT_ACTUALS
* ROLLOVER INTERVAL	Monthly
* FROM DATE	7/23/2021
* SLICE PERIOD	Daily
* NUMBER OF PERIODS	365
* → ITEM	Incident Actuals
EXPIRATION DATE	8/23/2021



NUMBER OF PERIODS: number of buckets (12)
Slice Period: Monthly

Timeslice Queries

- Slice Tables
 - PRJ_BLB_SLICEREQUESTS
 - PRJ_BLB_SLICES
- Slice Queries
 - Resource Availability
 - Team Allocation
 - ETC and Actual Hours

Part III: OOTB Database Objects



Let Rego be your guide.

How To Find Database Objects

- Clarity Studio
- SQL Trace
- Data Dictionary Tables
 - USER_OBJECTS / SYS.OBJECTS
 - USER_TABLES / INFORMATION_SCHEMA.TABLES
 - USER_TAB_COLUMN / INFORMATION_SCHEMA.COLUMNS
- Jaspersoft reports
- Rego's Data Dictionary Extractor

Questions?



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- Access your account at pmi.org
- Click on **Certifications**
- Click on **Maintain My Certification**
- Click on **Visit CCR's** button under the **Report PDU's**
- Click on **Report PDU's**
- Click on **Course or Training**
- Class Name = **regoUniversity**
- Course Number = **Session Number**
- Date Started = **Today's Date**
- Date Completed = **Today's Date**
- Hours Completed = **1 PDU per hour of class time**
- Training classes = **Technical**
- Click on **I agree** and **Submit**



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Phone

888.813.0444



Email

info@regouniversity.com



Website

www.regouniversity.com