

Agenda

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 - Cost Plans
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 - Baselines
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 - Datawarehouse
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- Questions

Introduction





Introductions

• Take 5 Minutes

Turn to a Person Near You

Introduce Yourself

Business Cards

Base Tables





- Investments and Projects:
 - INV_INVESTMENTS
 - PRTASK
 - PRTEAM
 - PRASSIGNMENT
- Timesheets
 - PRTIMESHEET
 - PRTIMEENTRY
- Financials
 - PPA_WIP
 - PPA_WIP_VALUES

 Exercise: Project Task Assignments Actuals and ETCs By Month – Multi-Dimensional



```
-- Slice Requests
SELECT *
FROM PRJ_BLB_SLICEREQUESTS SR
ORDER BY SR.ID
-- Main Slice Table
SELECT *
FROM PRJ BLB SLICES
-- Resource Availability
SELECT SRMR.FULL NAME
, AV.SLICE DATE
, AV.SLICE
FROM SRM RESOURCES SRMR
JOIN PRJ_BLB_SLICEREQUESTS SR ON SR.REQUEST_NAME = 'MONTHLYRESOURCEAVAILCURVE'
JOIN PRJ BLB SLICES AV ON SRMR.ID = AV.PRJ OBJECT ID AND SR.ID = AV.SLICE REQUEST ID
WHERE 1=1
ORDER BY SRMR.FULL NAME
, AV.SLICE DATE
```

```
-- Team Allocation
SELECT TM.PRID TEAM_ID
, INVI.NAME INVESTMENT NAME
, SRMR.FULL_NAME RESOURCE_NAME
, AL.SLICE DATE
, AL.SLICE
FROM INV_INVESTMENTS INVI
JOIN PRTEAM TM ON INVI.ID = TM.PRPROJECTID
JOIN SRM_RESOURCES SRMR ON TM.PRRESOURCEID = SRMR.ID
JOIN PRJ_BLB_SLICEREQUESTS SR ON SR.REQUEST_NAME = 'MONTHLYRESOURCEALLOCCURVE'
JOIN PRJ_BLB_SLICES AL ON TM.PRID = AL.PRJ_OBJECT_ID AND SR.ID = AL.SLICE_REQUEST_ID
WHERE 1=1
ORDER BY INVI.NAME
, SRMR.FULL_NAME
, AL.SLICE_DATE
```

```
-- FTC and Actual Slices
SELECT A.PRID ASSIGNMENT ID
, INVI.NAME INVESTMENT NAME
, T.PRNAME TASK NAME
, SRMR.FULL NAME RESOURCE NAME
, S.SLICE DATE
, SUM(CASE WHEN SR.REQUEST_NAME = 'MONTHLYRESOURCEACTCURVE' THEN S.SLICE ELSE 0 END) ACT
, SUM(CASE WHEN SR.REQUEST_NAME = 'MONTHLYRESOURCEESTCURVE' THEN S.SLICE ELSE 0 END) ETC
FROM INV INVESTMENTS INVI
JOIN PRTASK T ON INVI.ID = T.PRPROJECTID
JOIN PRASSIGNMENT A ON T.PRID = A.PRTASKID
JOIN SRM_RESOURCES SRMR ON A.PRRESOURCEID = SRMR.ID
JOIN PRJ BLB SLICEREQUESTS SR ON SR.REQUEST NAME IN ('MONTHLYRESOURCEACTCURVE', 'MONTHLYRESOURCEESTCURVE')
JOIN PRJ_BLB_SLICES S ON A.PRID = S.PRJ_OBJECT_ID AND SR.ID = S.SLICE_REQUEST_ID
WHFRF 1=1
GROUP BY A.PRID
, INVI.NAME
, T.PRNAME
, SRMR.FULL_NAME
, S.SLICE DATE
ORDER BY INVI.NAME
```

Cost Plans

- Cost Plans
 - FIN_PLANS
 - FIN_COST_PLAN_DETAILS
- Cost Plan Details By Period are stored in Timeslices
- Exercise: Forecast and Budget by Project

Risk, Issue, Change Requests

- Risk Issue Change table
 - RIM_RISK_AND_ISSUES
 - RIM_CHANGE_REQUESTS
- Custom Risk Issue Change tables
 - ODF_CA_RISK
 - ODF_CA_CHANGE
 - ODF_CA_ISSUE

Baselines

- Project Baselines
 - PRJ_BASELINES
 - ODF_CA_BASELINE
- Baseline Details stored in PRJ_BASELINE_DETAILS for:
 - Project Details
 - Team Details
 - Task Details
 - Assignment Details

Status Reports

- Status Reports are an add-in object, widely used in Classic UI and MUX
- It is created as a custom object, primary table is: ODF_CA_COP_PRJ_STATUSRPT
- Status Report components include DB functions and views
- i.e. Getting the latest status report: cop_prj_statusrpt_latest_v

Modern UX





Modern UX and DB Schema Updates

- Modern UX is actively being enhanced with new functionality.
- Releases include new functionality which impacts the DB schema. Some recent enhancements:
 - Checklists
 - To Do's
 - Hierarchies
 - Conversations
 - Agreements
- DWH is also being kept up to date with reporting enhancements and MUX components.
- Best way to remain informed, is by reviewing the release notes and schema documentation:

https://techdocs.broadcom.com/us/en/ca-enterprise-software/business-management/clarity-project-and-portfolio-management-ppm-on-premise/16-0-3/reference/clarity_ppm_advanced_reporting_and_database_schema_index.html

Custom Investments

- Custom Investments use the Investment meta-object as its base. Sharing key tables like:
 - INV_INVESTMENTS (Identified with ODF_OBJECT_CODE)
 - FIN_FINANCIALS
- Store additional fields by following the custom object convention:
 ODF CA <Object Code>

Additional Key Tables

- Roadmaps:
 - RDM_ROADMAPS
 - RDM_ROADMAP_ITEMS
- Hierarchies:
 - ODF_HIERARCHIES
- To Do's:
 - OBA_TODOS

Admin Tables

- Views and Personalizations:
 - ODF_UI_VIEWS
 - CMN_UI_PERSONALIZATIONS
- Blueprints:
 - ODF_BLUEPRINTS
 - ODF_ABSTRACT_BLUEPRINTS
- Lookups:
 - CMN_LOOKUPS
- Most functionality is stored in the DB like:
 - Business Rules
 - Field Level Security
 - Much more....

DWH





DWH

• DWH will change based on the Studio configuration, best way to navigate is understanding the naming convention:

https://techdocs.broadcom.com/us/en/ca-enterprise-software/business-management/clarity-project-and-portfolio-management-ppm-on-premise/15-8/administration/configure-the-data-warehouse-and-advanced-reporting/clarity-ppm-data-warehouse-dwh-conventions.html

- DWH schema can be reviewed by running the Jasper Report: DWH Schema
- DWH operates on a star-based data model composed of:
 - Dimension tables containing custom fields and metadata
 - Fact tables with metrics, organized by periods

Tips and Tricks





How To Find Database Objects

- Clarity Studio
 - Portlets
 - Lookups
 - Objects and Attributes
- 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

Admin Activities/System Settings

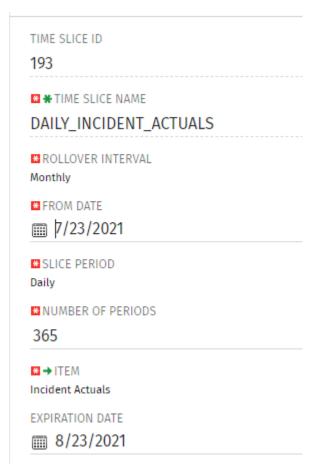




- Time Slice Settings:
 - Slice Period
 - From and Number of Periods
 - Rollover Internal and Expiration

Time Slices and Rollover

• Time slices rollover and only refresh data inside the defined range





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

Job Schedules and Important Jobs

Job	Purpose
Time Slicing	This job processes all configured time slices and updates discrete transactional data for the actual task assignment values, Estimate To Complete (ETC) and baselines, time sheet actuals, team and assignment data from a scenario, resource allocations to projects and resource availability.
Load Data Warehouse Job	The Load Data Warehouse Job extracts data from the database, transforms the data to a denormalized format, and loads the data into the data warehouse. The frequency of this job determines the freshness of the data. This job populates dimensions, facts, and lookups in the data warehouse for stock objects and attributes and any custom objects and attributes that have been explicitly enabled for inclusion in the Data Warehouse. This job also updates the Advanced Reporting domains, if you have set up Advanced Reporting with Jaspersoft. This also works with: Load Data Warehouse Access Rights Create Data Warehouse Trend Job
Rate Matrix Extraction Job	This job extracts rate matrix information and refreshes the rate matrix extraction tables. Run this job each time the rate matrix and the financial properties of a project change. The Rate Matrix Extraction job is required before retrieving rates on projects. You can prepare and update the rate matrix data. While the job is running, you can use the rate matrix data.
Update Report Tables Job	The Update Report Tables job is required for reports that display any of the following: monthly or weekly calendar periods; FTE amounts; and OBS level or phase grouping options. It is only required for Advanced Reporting reports that display resource skill relationships. The job populates reporting tables based on the parameters that you select when running the job. If these tables are not populated, reports dependent upon them display a 'No Data Found' message. Schedule the job to run nightly to keep the reporting tables up to date.

Job Schedules and Important Jobs

Job	Purpose
Datamart Extraction Job	This job extracts data from the transaction database tables and stores it in the legacy datamart reporting tables. These tables were the foundation for most stock reports and were used for any legacy custom reports. NBI_R_FACTS NBI_RUN_LOGS NBI_ROLLUP_SQL NBI_RESOURCE_TIME_SUMMARY NBI_RESOURCE_CURRENT_FACTS NBI_PRT_FACTS NBI_PRT_FACTS NBI_PRT_FACTS NBI_PROJECT_FORECAST NBI_PROJECT_FORECAST NBI_PROJECT_CURRENT_FACTS NBI_PROJECT_CURRENT_FACTS NBI_PM_PROJECT_TIME_SUMMARY NBI_FM_PROJECT_TIME_SUMMARY NBI_EVENTS NBI_DIM_OBS_FLAT NBI_DIM_OBS NBI_DIM_CALENDAR_TIME NBI_DIM_FISCAL_TIME

Recent Additions/MUX Related Jobs

Job	Purpose
Post Actuals to Investment	Populate time scaled data used in per period metrics, custom investments and hierarchies
Time Slicing Sync	Provides time scaled data aggregation to be used in MUX per period metrics and group by functionality

Financial Processing

- Timesheets
 - Post Timesheets Job
- Transaction Import (Invalid Transactions)
 - Post Transactions to Financials Job
- Trans Control
 - Post to WIP Job
- WIP

Questions?





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