

OLE FY Maker Job Technical Document

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Purpose

OLE is an Enterprise grade Library Management System with built in modules to handle Purchasing and Accounts Payable. This module is extensively used for acquisitions and contains account information and provisions available for budgeting and encumbering. This necessitates the need for a Fiscal Year end process to make sure fund codes and other budget related information are carried forward to the next year.

Dependencies (DB tables)

Tables affected in Fiscal Year Maker Job

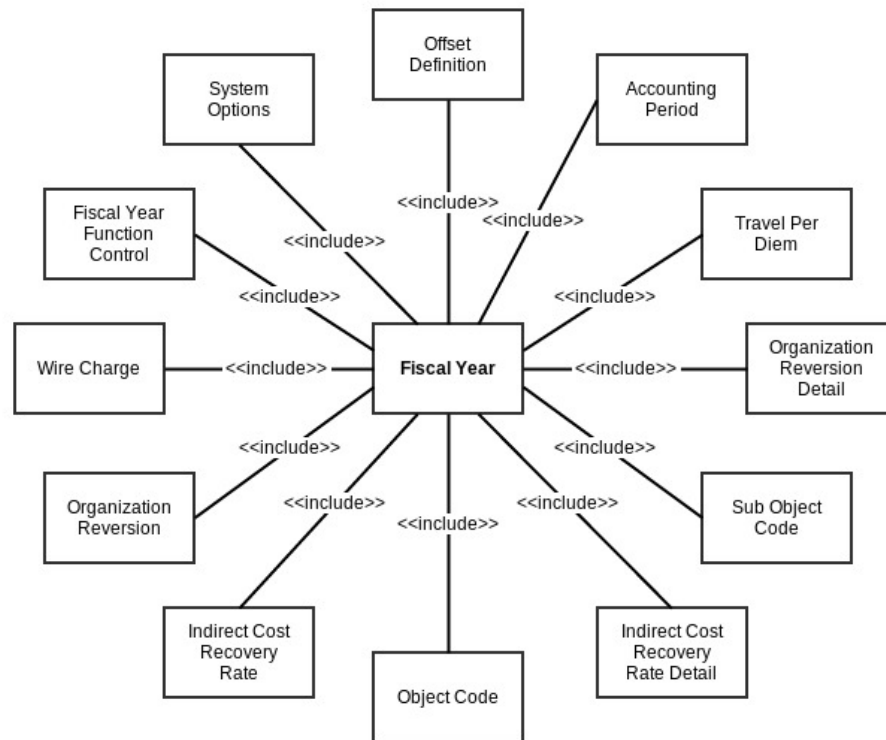
fs_option_t	System Options
ca_org_reversion_t	Chart of Accounts Organization Reversion
ca_icr_rate_t	Chart of Accounts Indirect Cost Recovery Rate
ca_object_code_t	Chart of Accounts Object Code
ca_org_rvrsn_dtl_t	Chart of Accounts Organization Reversion Detail
ca_sub_object_cd_t	Chart of Accounts Sub Object Code
gl_offset_defn_t	General Ledger Offset Definition
sh_acct_period_t	Accounting Period
ca_icr_auto_entr_t	Chart of Accounts Indirect Cost Recovery Rate Detail
fp_dv_wire_chrg_t	Wire Charge
fp_dv_diem_t	Travel Per Diem
fp_fscl_yr_ctrl_t	Fiscal Year Function Control

The Fiscal Year Maker Job copies table data from source year (mentioned in the System Parameter *SOURCE_FISCAL_YEAR*) and hence if any table has no default data existing in them with the source year as fiscal year then no data is copied. The Fiscal Year Maker Job is usually followed by setting of Budget adjustments for the following year and the following tables are affected.

Tables affected in the Budget Adjustment Step

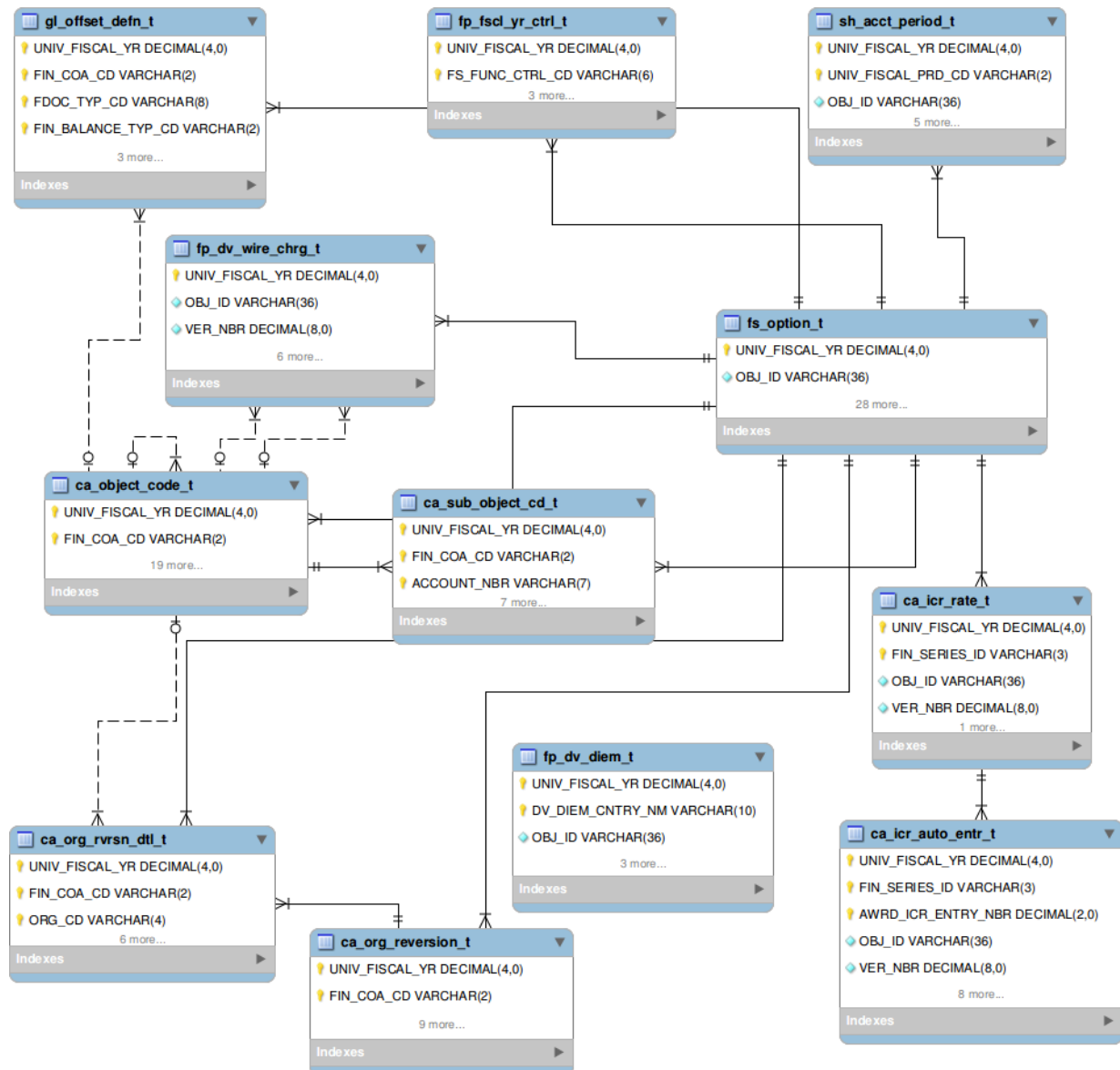
gl_acct_balances_t	General Ledger Account Balances
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Logical Data Model



The Fiscal year permeates across various tables especially those related to Financial transactions which in turn helps in Double-entry Bookkeeping, Budgetary allocations and generating reports. Thus Chart of Account tables such as Object Code, Indirect Cost Recovery, Organization Reversion along with General Ledger table dealing with Offset Definition and Financial Processing related tables such as Fiscal Year Function control, Accounting Period, Travel Per Diem and Wire charge includes Fiscal year. Considering the fact that Institutions of Higher Education are a 'Going Concern' as far as accounting is concerned, it is important to carry forward account information and budget related data to new fiscal year. This is where the Fiscal Year Maker Job fits in to copy data from a source year to a destination year and ease the process of starting a new Financial Year.

Physical Data Model

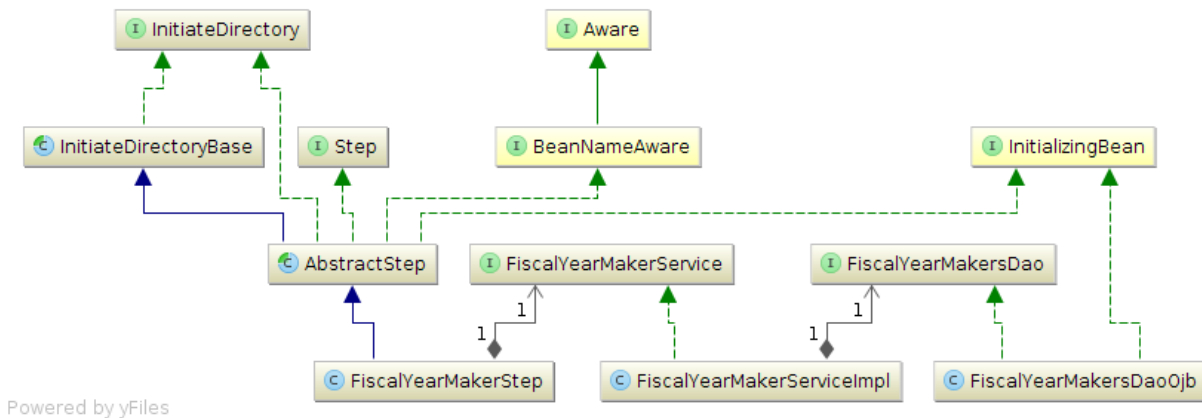


The Systems Option table (*fs_option_t*) has the University Fiscal Year (*UNIV_FISCAL_YR*) as a primary key. It is from this table most tables ranging from General Ledger related table, Offset Definition (*gl_offset_defn_t*) to Financial Processing related tables like Fiscal Year Function Control (*fp_fscd_yr_ctrl_t*), Accounting Period (*sh_acct_period_t*), Wire Charge (*fp_dv_wire_chrg_t*) to Chart of Accounts related tables like Object Code (*ca_object_code_t*), Sub Object Code (*ca_sub_object_cd_t*), Indirect Cost Recovery Rate (*ca_icr_rate_t*, *ca_icr_auto_entr_t*), Organization Reversion (*ca_org_reversion_t*, *ca_org_rvrsn_dtl_t*)

references the University Fiscal Year as a Foreign Key.

Service Interface Design (Java)

The Fiscal Year Maker Job is an unscheduled job and would be run at the end of the year during setting up of account related information for the next year and budget related information.



The *FiscalYearMakerStep* bean is defined in the *spring-sys.xml*. The *FiscalYearMakerService* dependency is injected using the Spring framework's Setter-based Dependency Injection. The *runProcess* method of the *FiscalYearMakerService* class considers the parameter value, *SOURCE_FISCAL_YEAR*, for the base year from which the rows are copied. Depending on the boolean from the parameter, *OVERRIDE_TARGET_YEAR_DATA_IND*, the class decides whether to overwrite existing data or append to existing data. The *createNewYearRows* method of *FiscalYearMakersDao* class populates the records for the new year.

For more information, Javadocs can be found [here](#).

Service Interface Design (REST if applicable)

OLE doesn't support running the Fiscal Year Maker job from a REST/SOAP service.

User Interface Design

The *FiscalYearMaker* Job is part of Batch Jobs and uses KRAD's UIF (User Interface Framework). A very good guide on this can be found [here](#). The Spring Beans XML used in the case of Batch Job is the *BatchJobStatus.xml* under the *datadictionary* folder.

Data Importing

Not Applicable

Data Exporting (if applicable)

OLE uses a RDBMS backend and hence any data can be exported using simple SQL queries.

Workflow

FiscalYearMaker Job doesn't go through any workflow and anyone with a permission to initiate the job can run the whole process.

System Parameters

Namespace Code	Parameter Name	Description
OLE-SYS	SOURCE_FISCAL_YEAR	The parameter controls the fiscal year for which the Fiscal Year Makers Batch process will copy certain Chart and General Ledger data to the next sequential year.
OLE-SYS	OVERRIDE_TARGET_YEAR_DATA_IND	The parameter controls in which mode the Fiscal Year Makers Batch process runs. N - Copies values to the new fiscal year without overwriting any values that already exist in the new year. Y - Copies values to the new fiscal year and overwrites any value that exist in the new year.

Roles and Permissions

Permissions are linked to roles which are in turn linked to Users to give them access to screens and functions.

Permission ID	Permission Name
164	Modify Batch Job
OLE132	Modify Batch Job KFS*
OLE256	Look Up Records BatchJobStatus

Role ID	Role Name	Permissions
63	Technical Administrator	164
OLE45	Operations	OLE132
OLE82	Batch Job Modifier	OLE256