KRA Kuali Research Administration: Exercise 1

This page last changed on Jan 23, 2008 by bhutchinson.



Exercise 1:

Create two BOs and their corresponding OJB mappings, Data Dictionary xml files and Maintenance Document xml files.

Exercise Goal

At the end of this exercise, you should have working Java Business Object Classes, OJB mappings, Data Dictionary xml files and Maintenance Document xml files for the following entities:

- · Sponsor
- ProposalType
- Unit



The Sponsor artifacts have been created for you as reference.

The Unit artifacts are mostly shells that need to have details populated by you.

The ProposalType artifacts need to be created from scratch.

Java Business Object Classes

Unit

- 1. Add the following attributes and their setters/getters to org.kuali.kra.bo.Unit
 - unitNumber (String)
 - parentUnitNumber (String)
 - organizationId (String)
 - unitName (String)
 - parentUnit (Unit)
- 2. add each new attribute to the toStringMapper() method

ProposalType

 create the ProposalType Business Object class in the org.kuali.kra.proposaldevelopment.bo package



Don't forget to extend KraPersistableBusinessObjectBase

- 2. Add the following attributes and their setters/getters
 - proposalTypeCode (String)
 - description (String)
- 3. add each new attribute to the toStringMapper() method

OJB Mapping

1. Add attribute mappings for Unit to the repository.xml file; here's the DDL for reference:

```
CREATE TABLE UNIT
(
"UNIT_NUMBER" VARCHAR2(8) constraint UNITN1 NOT NULL ENABLE,
"UNIT_NAME" VARCHAR2(60),
"PARENT_UNIT_NUMBER" VARCHAR2(8),
"UPDATE_TIMESTAMP" DATE constraint UNITN2 NOT NULL ENABLE,
"UPDATE_USER" VARCHAR2(8) constraint UNITN3 NOT NULL ENABLE,
"VER_NBR" NUMBER(8,0) DEFAULT 1 constraint UNITN4 NOT NULL ENABLE,
"OBJ_ID" VARCHAR2(36) DEFAULT SYS_GUID() constraint UNITN5 NOT NULL ENABLE,
CONSTRAINT "PK_UNIT_KRA" PRIMARY KEY ("UNIT_NUMBER") ENABLE
);
```

Add the complete mapping for the ProposalType class to PROPOSAL_TYPE table; here's the DDL for reference:

```
CREATE TABLE "PROPOSAL_TYPE"
(

"PROPOSAL_TYPE_CODE" VARCHAR2(3) CONSTRAINT "PROPOSAL_TYPE_N1" NOT NULL ENABLE,

"DESCRIPTION" VARCHAR2(200) CONSTRAINT "PROPOSAL_TYPE_N2" NOT NULL ENABLE,

"UPDATE_TIMESTAMP" DATE CONSTRAINT "PROPOSAL_TYPE_N3" NOT NULL ENABLE,

"UPDATE_USER" VARCHAR2(8) CONSTRAINT "PROPOSAL_TYPE_N4" NOT NULL ENABLE,

"VER_NBR" NUMBER(8,0) DEFAULT 1 CONSTRAINT "PROPOSAL_TYPE_N5" NOT NULL ENABLE,

"OBJ_ID" VARCHAR2(36) DEFAULT SYS_GUID() CONSTRAINT "PROPOSAL_TYPE_N6" NOT NULL

ENABLE,

CONSTRAINT "PROPOSAL_TYPE_P1" PRIMARY KEY ("PROPOSAL_TYPE_CODE") ENABLE,

CONSTRAINT "PROPOSAL_TYPE_O" UNIQUE ("OBJ_ID") ENABLE
```

Data Dictionary Configuration Files

- 1. populate org.kuali.kra.datadictionary.Unit.xml
- 2. create org.kuali.kra.datadictionary.ProposalType.xml



For now, set field validations to any Character allow Whitespace = "true". Set sizes to match column sizes from DDL.

Maintenance Document XML

 create org.kuali.kra.datadictionary.docs.ProposalTypeMaintenanceDoc.xml based on SponsorMaintenanceDoc.xml

Web Configuration

1. Edit mainInquiryLookup.tag add Unit and ProposalType lookup links

Try it out

- 1. Start the webapp by running Launch Web App.launch in the exercise 1 project
- 2. Point your browser at http://localhost:8080/kralite-dev and try the new lookup links