KRA Kuali Research Administration: Exercise 2

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



Exercise 2:

Create three more BOs, one of which contains references to the other two, along with 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:

- SpecialReview
- SpecialReviewApprovalType
- ValidSpecialReviewApproval
- ProposalSpecialReview



The ValidSpecialReviewApproval artifacts have been created for you. The ProposalSpecialReview object references the other three objects.

Java Business Object Classes

SpecialReview

- 1. create the SpecialReview Business Object class in the org.kuali.kra.bo package
- 2. add the following attributes and their corresponding setters & getters
 - specialReviewCode (String)
 - description (String)
- 3. add each new attribute to the toStringMapper() method

SpecialReviewApprovalType

- 1. create the SpecialReviewApprovalType Business Object class in the org.kuali.kra.bo package
- 2. add the following attributes and their corresponding setters & getters
 - approvalTypeCode (String)
 - description (String)
- 3. add each new attribute to the toStringMapper() method

ProposalSpecialReview

- create the ProposalSpecialReview Business Object class in the org.kuali.kra.proposaldevelopment.bo package
- 2. Add the following attributes and their setters/getters
 - proposalNumber (Integer)
 - specialReviewNumber (Integer)
 - applicationDate (Date)
 - approvalDate (Date)
 - approvalTypeCode (String)
 - comments (String)
 - protocolNumber (String)
 - specialReviewCode (String)
 - specialReview (SpecialReview)
 - specialReviewApprovalType (SpecialReviewApprovalType)
 - validSpecialReviewApproval (ValidSpecialReviewApproval)
- 3. add each new attribute to the toStringMapper() method

OJB Mapping

 Add the mapping for the SpecialReview class to SPECIAL_REVIEW table; here's the DDL for reference:

```
CREATE TABLE "SPECIAL_REVIEW"

(

"SPECIAL_REVIEW_CODE" VARCHAR2(3) CONSTRAINT "SPECIAL_REVIEW_N1" NOT NULL ENABLE,

"DESCRIPTION" VARCHAR2(200) CONSTRAINT "SPECIAL_REVIEW_N2" NOT NULL ENABLE,

"UPDATE_TIMESTAMP" DATE CONSTRAINT "SPECIAL_REVIEW_N3" NOT NULL ENABLE,

"UPDATE_USER" VARCHAR2(8) CONSTRAINT "SPECIAL_REVIEW_N4" NOT NULL ENABLE,

"VER_NBR" NUMBER(8,0) DEFAULT 1 CONSTRAINT "SPECIAL_REVIEW_N5" NOT NULL ENABLE,

"OBJ_ID" VARCHAR2(36) DEFAULT SYS_GUID() CONSTRAINT "SPECIAL_REVIEW_N6" NOT NULL

ENABLE,

CONSTRAINT "SPECIAL_REVIEW_P1" PRIMARY KEY ("SPECIAL_REVIEW_CODE") ENABLE,

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

2. Add the mapping for the SpecialReviewApprovalType class to SP_REV_APPROVAL_TYPE table; here's the DDL for reference:

Add the mapping for the ProposalSpecialReview class to EPS_PROP_SPECIAL_REVIEW table; here's the DDL for reference:

```
CREATE TABLE "EPS_PROP_SPECIAL_REVIEW"
"PROPOSAL_NUMBER"
                      NUMBER(12,0) CONSTRAINT "EPS_PROP_SPECIAL_REVIEWN1" NOT NULL ENABLE,
"SPECIAL_REVIEW_NUMBER" NUMBER(3,0) CONSTRAINT "EPS_PROP_SPECIAL_REVIEWN2" NOT NULL ENABLE,
"SPECIAL_REVIEW_CODE" VARCHAR2(3) CONSTRAINT "EPS_PROP_SPECIAL_REVIEWN3" NOT NULL ENABLE,
"APPROVAL_TYPE_CODE" VARCHAR2(3) CONSTRAINT "EPS_PROP_SPECIAL_REVIEWN4" NOT NULL ENABLE,
"PROTOCOL_NUMBER"
                    VARCHAR2(20),
                     DATE,
"APPLICATION_DATE"
"APPROVAL DATE"
                      DATE,
"COMMENTS"
"UPDATE_USER"
                       VARCHAR2(8) CONSTRAINT "EPS_PROP_SPECIAL_REVIEWN5" NOT NULL ENABLE,
"UPDATE_TIMESTAMP" DATE CONSTRAINT "EPS_PROP_SPECIAL_REVIEWN6" NOT NULL ENABLE,
"VER_NBR" NUMBER(8,0) DEFAULT 1 CONSTRAINT "EPS_PROP_SPECIAL_REVIEWN7" NOT NULL ENABLE,
"OBJ_ID" VARCHAR2(36) DEFAULT SYS_GUID() CONSTRAINT "EPS_PROP_SPECIAL_REVIEWN8" NOT NULL
ENABLE,
CONSTRAINT "PK_EPS_PROP_SPECIAL_REVIEW_KRA" PRIMARY KEY
("PROPOSAL_NUMBER", "SPECIAL_REVIEW_NUMBER") ENABLE
```

Data Dictionary Configuration Files

- 1. create org.kuali.kra.datadictionary.ProposalSpecialReview.xml
- 2. create org.kuali.kra.datadictionary.SpecialReview.xml
- 3. create org.kuali.kra.datadictionary.SpecialReviewApprovalType.xml



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

Maintenance Document XML

- $1. \ \ create\ org. kuali.kra.data dictionary.docs. Special Review Approval Type Maintenance Doc.xml$
- 2. create org.kuali.kra.datadictionary.docs.SpecialReviewMaintenanceDoc.xml

Web Configuration

1. Add lookup links for SpecialReview and SpecialReviewApprovalType to the mainInquiryLookup.tag

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