

Business logic

Mag. Thomas Griesmayer

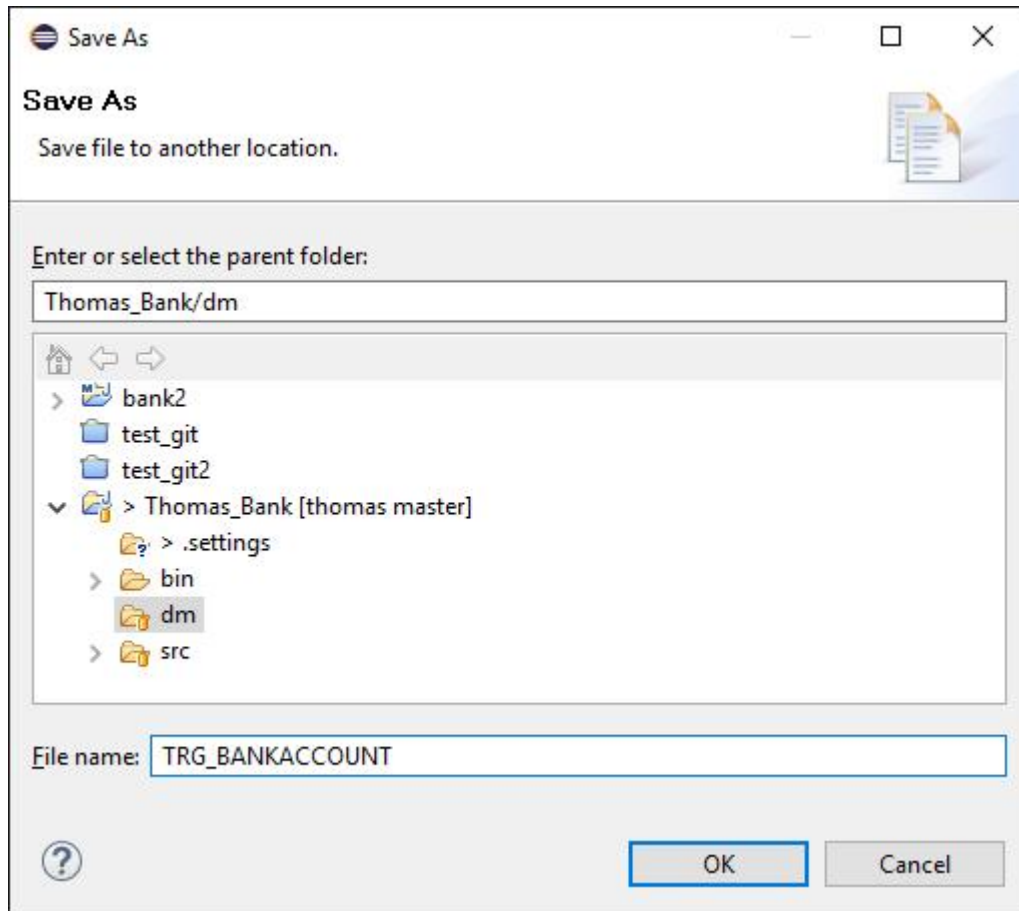
Trigger

```
CREATE OR REPLACE TRIGGER TRG_BANKACCOUNT
BEFORE INSERT OR UPDATE ON BANKACCOUNT
FOR EACH ROW
DECLARE
BEGIN
    IF (:NEW.AMOUNT < -:NEW.CREDITLIMIT) THEN
        raise_application_error (-20999, 'The balance
            ...');
    END IF;

    IF (UPDATING) THEN
        :NEW.OPENINGDATE := :OLD.OPENINGDATE;
        :NEW.ACCOUNTNUMBER := :OLD.ACCOUNTNUMBER;

        IF (abs (:NEW.AMOUNT-:OLD.AMOUNT)>10000) THEN
            RAISE_APPLICATION_ERROR (-20998,
                'Transactions...');
        END IF;
    END IF;
END TRG_BANKACCOUNT;
```

Trigger



Trigger

+ Add to Index

Commit... Ctrl+#

Outline Git Staging Filter files

> thomas [master]

Unstaged Changes (10784)

- > .VirtualBox
- > .eclipse
- > .m2/repository
- > oracle_ire_usage

Staged Changes (1)

- Desktop/Code_2015/Thomas_Bank/dm
TRG_BANKACCOUNT.plsql

Commit Message

Check the credit limit and the transaction heigh

Author: Thomas <thomas@me.com>
Committer: Thomas <thomas@me.com>

Commit and Push Commit

Push to Upstream

PLSQL

```
CREATE OR REPLACE PROCEDURE
PROC_NEW_ACCOUNT (ACCOUNTNUMBER OUT NUMBER,
                  FIRSTNAME      IN  VARCHAR2,
                  OPENINGDATE     OUT  DATE,
                  AMOUNT          IN   NUMBER,
                  CREDITLIMIT     IN  OUT NUMBER) IS
BEGIN
    ACCOUNTNUMBER := SEQ_ACCOUNTNUMBER.nextval;
    OPENINGDATE   := SYSDATE;

    IF CREDITLIMIT is NULL THEN
        CREDITLIMIT := 1000;
    END IF;

    INSERT INTO BANKACCOUNT VALUES (ACCOUNTNUMBER,
                                     FIRSTNAME, OPENINGDATE, AMOUNT,
                                     CREDITLIMIT);
END PROC_NEW_BANKACCOUNT;
```

Run PL/SQL

PLSQL

Target:

PROC_NEW_BANKACCOUNT

Parameters:

Parameter	Data Type	Mode	Input Value
ACCOUNTNUMBER	NUMBER	OUT	N/A
FIRSTNAME	VARCHAR...	IN	Max
OPENINGDATE	DATE	OUT	N/A
AMOUNT	NUMBER	IN	-2500
CREDITLIMIT	NUMBER	IN/...	2000

PL/SQL Block

```
DECLARE
  ACCOUNTNUMBER NUMBER;
  FIRSTNAME VARCHAR2(200);
  OPENINGDATE DATE;
  AMOUNT NUMBER;
  CREDITLIMIT NUMBER;
BEGIN
  FIRSTNAME := 'Max';
  AMOUNT := -2500;
  CREDITLIMIT := 2000;
```

Save File...

From File...

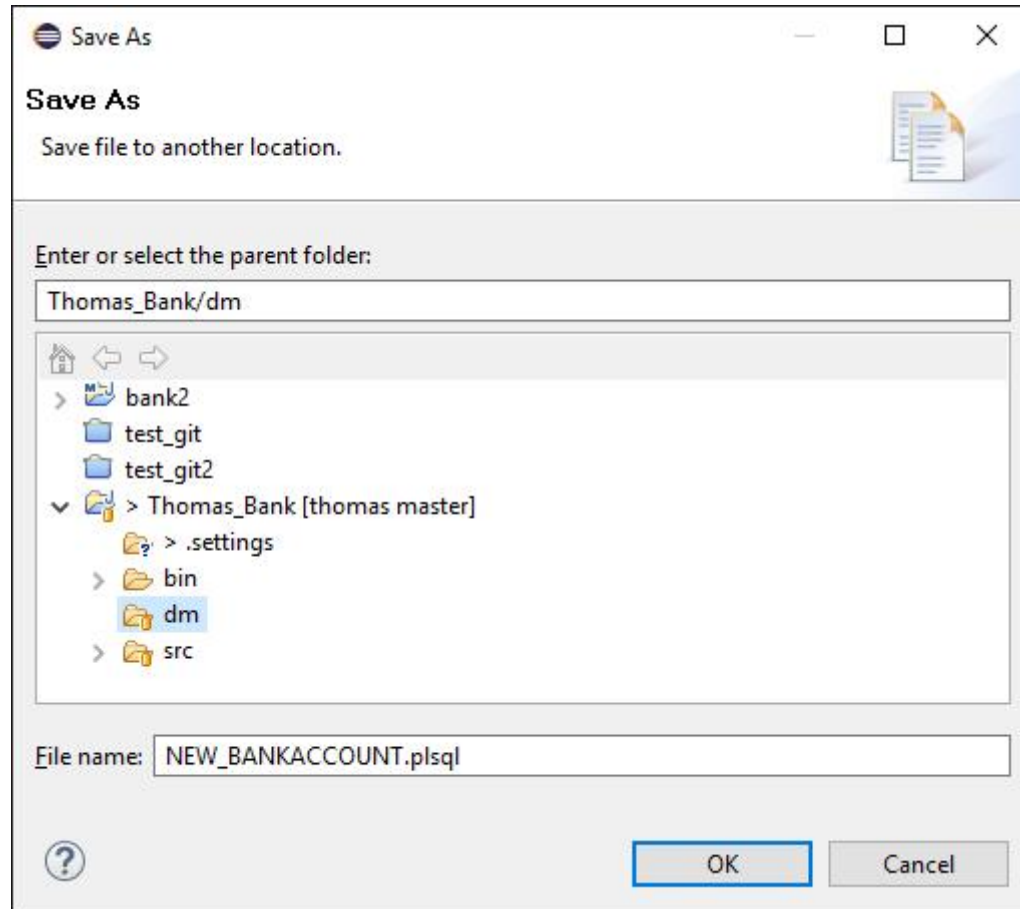
Reset

Help

OK

Cancel

PLSQL



PLSQL

+ Add to Index

Commit... Ctrl+#

Outline Git Staging Filter files

> thomas [master]

Unstaged Changes (10790)

- > .VirtualBox
- > .eclipse
- > .m2/repository
- > oracle_ora_11g

Staged Changes (1)

- Desktop/Code_2015/Thomas_Bank/dm
NEW_BANKACCOUNT.plsql

Commit Message

PLSQL new BankAccount

Author: Thomas <thomas@me.com>

Committer: Thomas <thomas@me.com>

Commit and Push Commit

Push to Upstream

Change the structure

- A new property has to be added to:
 1. Java - BankAccount.java
 2. Create table - CT_BANKACCOUNT.plsql
 3. Business cases - NEW_BANKACCOUNT.plsql
 4. Business rules - TRG_BANKACCOUNT.sql
- Drop the table and the procedures
- Recreate the procedures