

preTransaction Validation

dstud5b.w - preTransactionValidate

```
for each rowObjUpd where lookup(rowObjUpd.rowmod, "a,u") ne 0:  
  if not can-find(state of rowobjupd) and rowobjupd.countrycode = "USA" then  
  do:  
    run addmessage("State code " + rowobjupd.stcode + " not valid for  
Student: "  
    + string(rowobjupd.studentId), "state", "student").  
    end.  
  end.  
end.  
if anymessage() then return "State code(s) is/are not valid".  
END PROCEDURE.
```

Pre Transaction Validation

File Navigation

studentId: 000001

First Name: Abraham

Last Name: Bush

Address: 527 Baltic Place

city: Louisville

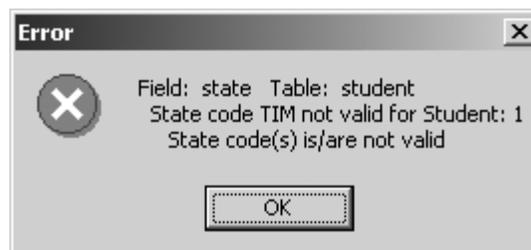
State/Province: TIM

Zip Code: 40017

Country: USA

phone: (502) 392-4578

Graduated?: no Year: 2001



preTransaction Validation

- In **wstudpretran.w**, we are checking to see if the **state** field in the **student** record is valid for U.S. students.
 - ◆ In the SmartDataObject, **dstud5b.w**, the procedure **preTransactionValidate** is created.
 - ◆ It is necessary to read the **rowObjUpd** temp-table and look for records that have been added or updated (“a” or “u”).
 - ◆ This procedure introduces the **addMessage** procedure call which also raises the error condition.
 - It takes three arguments:
 - ▲ The message string
 - ▲ The error condition field (or a ? if it doesn’t pertain to a given field)
 - ▲ The error condition table (or a ? if it doesn’t pertain to a given table)
 - The **addMessage** procedure is necessary if the SmartDataObject is running on an Application Server. 4GL message statements will only appear on the AppServer log and will not be seen by the end-user. However, the **addMessage** procedure will display messages to the end-user no matter where the SmartDataObject executes.
 - ▲ Optionally, the **anyMessage()** function may be used to determine if there are any messages on the message queue.
 - Note that since this procedure has database references, it should be performed on the server. The **DB-REQUIRED** toggle-box is now checked.
 - ◆ Notice that multiple **rowObjUpd** records are read. This is because the server-side validation does not occur until the transaction is attempted to be committed.