Exercise 17

Instructions for writing XML tags for Importing Cash Receipt-Vouchers from Excel into Tally Software

Software Requirements :-

OS	: Windows 98 or higher
Tally	: 6.3 or higher
UDI-Magic	: 3.0 or higher

Instructions for writing
XML tags for Cash Receipt-Vouchers

Reference : Exercise 17
Date : 6th Jan., 2009

Objective

To write XML tags for importing "cash-receipt-vouchers" from MS-Excel into Tally using UDIMagic software.

SUMMARY

Step 1: Manually enter a Receipt voucher in Tally and then export it
Step 2: Writing XML tags for creating Masters
Step 3: Writing XML tags for creating Vouchers

STEP-BY-STEP-INSTRUCTIONS

STEP 1

(Manually enter a Receipt voucher in Tally and export it)

Step 1a: Receipt Voucher Entry

The first thing you need to do is to manually enter one voucher (cash-receipt-voucher) as given in the Excel-sheet named **exercise-17-cash-receipt-vouchers.xls.** Use the option "Gateway-of-Tally >> Accounting Voucher >> F6 [Receipt]" to do Receipt Voucher entry.

Next, export the data in XML format using the following options :-

Step 1b: Exporting Masters

Gateway of Tally >> Display >> List of Accounts >> Alt+E (Type of Masters=All Masters)

Remarks:- *This will generate the tags in **master.xml** file.*

Step 1c: Exporting Vouchers

Gateway of Tally >> Display >> Daybook >> >> Alt+F2 (specify whole year) >> Alt+E

Remarks:- *This will generate the tags in **daybook.xml** file.*

Tips:
You can open/view these tags in IE or any text-editor like Notepad.

STEP 2

(Writing XML tags for Masters)

Before we write XML-tags to create **cash-receipt-vouchers**, we must write XML-tags for creating the Masters. I.e Party Masters. Follow the underneath steps:-

Step 2a: Open the **Master.xml** in NOTEPAD.
Step 2b: Search for "**ABC Co.**"
Step 2c: Copy the **<LEDGER>** tags into a new-file

Here are the tags that we copied from the Master.xml into a new text-file.

Table 1

XML-Tags for Ledger-master as generated from Tally 9 Release 3 [Beta]

```
<LEDGER NAME="Abc Co." RESERVEDNAME="">
    <MAILINGNAME.LIST>
     <MAILINGNAME>Abc Co.</MAILINGNAME>
    </MAILINGNAME.LIST>
    <CURRENCYNAME>Rs.</CURRENCYNAME>
    <PARENT>Sundry Debtors</PARENT>
    <TAXCLASSIFICATIONNAME/>
    <TAXTYPE>Others</TAXTYPE>
    <GSTTYPE/>
    <SERVICECATEGORY/>
    <EXCISEDUTYTYPE/>
    <TRADERLEDNATUREOFPURCHASE/>
    <TDSDEDUCTEETYPE/>
    <TDSRATENAME/>
    <LEDGERFBTCATEGORY/>
    <ISBILLWISEON>Yes</ISBILLWISEON>
    <ISCOSTCENTRESON>No</ISCOSTCENTRESON>
    <ISINTERESTON>No</ISINTERESTON>
    <ALLOWINMOBILE>No</ALLOWINMOBILE>
    <ISCONDENSED>No</ISCONDENSED>
    <AFFECTSSTOCK>No</AFFECTSSTOCK>
    <FORPAYROLL>No</FORPAYROLL>
    <INTERESTONBILLWISE>No</INTERESTONBILLWISE>
    <OVERRIDEINTEREST>No</OVERRIDEINTEREST>
    <OVERRIDEADVINTEREST>No</OVERRIDEADVINTEREST>
    <USEFORVAT>No</USEFORVAT>
    <IGNORETDSEXEMPT>No</IGNORETDSEXEMPT>
    <ISTCSAPPLICABLE>No</ISTCSAPPLICABLE>
    <ISTDSAPPLICABLE>No</ISTDSAPPLICABLE>
    <ISFBTAPPLICABLE>No</ISFBTAPPLICABLE>
    <ISGSTAPPLICABLE>No</ISGSTAPPLICABLE>
    <SHOWINPAYSLIP>No</SHOWINPAYSLIP>
    <USEFORGRATUITY>No</USEFORGRATUITY>
    <FORSERVICETAX>No</FORSERVICETAX>
    <ISINPUTCREDIT>No</ISINPUTCREDIT>
    <ISEXEMPTED>No</ISEXEMPTED>
    <ISABATEMENTAPPLICABLE>No</ISABATEMENTAPPLICABLE>
    <TDSDEDUCTEEISSPECIALRATE>No</TDSDEDUCTEEISSPECIALRATE>
    <AUDITED>No</AUDITED>
    <SORTPOSITION> 1000</SORTPOSITION>
    <LANGUAGENAME.LIST>
     <NAME.LIST>
      <NAME>Abc Co.</NAME>
     </NAME.LIST>
     <LANGUAGEID> 1033</LANGUAGEID>
    </LANGUAGENAME.LIST>
    <LEDGERAUDITCLASS.LIST>
     <LEDAUDITPERIOD.LIST>
     </LEDAUDITPERIOD.LIST>
    </LEDGERAUDITCLASS.LIST>
</LEDGER>
```

Step 2d: Modify the LEDGER XML-tags generated by Tally 9.

Table 2

XML tags as per Tally format	XML-Tags as per UDIMagic format
<LEDGER NAME="Abc Co." RESERVEDNAME=""> <NAME.LIST> <NAME>Abc Co.</NAME> </NAME.LIST> <PARENT>Sundry Debtors</PARENT> <ISBILLWISEON>Yes</ISBILLWISEON> <ISCOSTCENTRESON>No</ISCOSTCENTRESON> </LEDGER>	<MASTER TYPE="LEDGER"> <NAME.LIST> <!-- Get the Name from Column C --> <NAME COLUMNREFERENCE="C"/> </NAME.LIST> <!-- This is the Group Name --> <PARENT>Sundry Debtors</PARENT> <!-- Mailing Name --> <ADDITIONALNAME COLUMNREFERENCE="C"/> <ISBILLWISEON>Yes</ISBILLWISEON> <ISCOSTCENTRESON>No</ISCOSTCENTRESON> </MASTER>

Remarks:-
i) COLUMNREFERENCE is an attribute supported by UDIMagic. This tells UDIMagic to pickup data from a specific the Column in the Excel Sheet.

ii) Example:- <NAME COLUMNREFERENCE="C"/>
This instructs UDIMagic to read data from Column C.

iii) The <ADDITIONALNAME> tag is used to specify the Mailing-Name. In Tally 9 Release 3 (Beta), this tag appears as <MAILINGNAME>

STEP 3
(Writing XML tags for Vouchers)

Herein, we shall be using the **daybook.xml** file which contains the XML tags generated by Tally Software. We shall begin with a skeleton structure and then shall go on adding tags to it.

Step 3a: Skeleton structure.

XML tags as per Tally format	XML-Tags as per UDIMagic format
<VOUCHER REMOTEID="0613b33a-c0b9-4b3a-ab64-091bb154504f-00000001" VCHTYPE="Receipt" ACTION="Create"> ……other tags…… </VOUCHER>	<VOUCHER> ……other tags…… </VOUCHER>

Step 3b: Adding level-one tags.

XML tags as per Tally format	XML-Tags as per UDIMagic format
<VOUCHER REMOTEID="0613b33a-c0b9-4b3a-ab64-091bb154504f-00000001" VCHTYPE="Receipt" ACTION="Create"> <DATE>20080401</DATE> <EFFECTIVEDATE>20080401</EFFECTIVEDATE > <VOUCHERTYPENAME>Receipt</VOUCHERTYPENAME> <ISINVOICE>No</ISINVOICE> <REFERENCE>1</REFERENCE> <VOUCHERNUMBER>1</VOUCHERNUMBER> </VOUCHER>	<VOUCHER> <!-- Date is to be taken from Column B --> <DATE COLUMNREFERENCE="B"/> <EFFECTIVEDATE COLUMNREFERENCE="B"/> <!-- Voucher type name is specified here --> <VOUCHERTYPENAME>Receipt</VOUCHERTYPENAME> <ISINVOICE>No</ISINVOICE> <REFERENCE COLUMNREFERENCE="A"/> <VOUCHERNUMBER COLUMNREFERENCE="A"/> </VOUCHER>

Remarks:-
i)The tags added in step-3c (Party Ledger tags) have been highlighted (red-color).

Step 3c: Adding tags for Party Ledger (Credit A/c).

XML tags as per Tally format	XML-Tags as per UDIMagic format
<VOUCHER REMOTEID="0613b33a-c0b9-4b3a-ab64-091bb154504f-00000001" VCHTYPE="Receipt" ACTION="Create"> <DATE>20080401</DATE> <EFFECTIVEDATE>20080401</EFFECTIVEDATE > <VOUCHERTYPENAME>Receipt</VOUCHERTYPENAME> <ISINVOICE>No</ISINVOICE> <REFERENCE>1</REFERENCE> <VOUCHERNUMBER>1</VOUCHERNUMBER> <ALLLEDGERENTRIES.LIST> <LEDGERNAME>Abc Co.</LEDGERNAME> <ISDEEMEDPOSITIVE>No</ISDEEMEDPOSITIVE> <AMOUNT>5000.00</AMOUNT> </ALLLEDGERENTRIES.LIST> </VOUCHER>	<VOUCHER> <!-- Date is to be taken from Column B --> <DATE COLUMNREFERENCE="B"/> <EFFECTIVEDATE COLUMNREFERENCE="B"/> <!-- Voucher type name is specified here --> <VOUCHERTYPENAME>Receipt</VOUCHERTYPENAME> <ISINVOICE>No</ISINVOICE> <REFERENCE COLUMNREFERENCE="A"/> <VOUCHERNUMBER COLUMNREFERENCE="A"/> <!-- Party Ledger to be Credited --> <ALLLEDGERENTRIES.LIST> <ISDEEMEDPOSITIVE>No</ISDEEMEDPOSITIVE> <!--Party Name to be taken from Column C --> <LEDGERNAME COLUMNREFERENCE="C"/> <!-- Example: =Round(D2,2)*1 --> <AMOUNT FORMULA ="=+Round(D#,2)*1"/> </ALLLEDGERENTRIES.LIST> </VOUCHER>

Remarks:-
i)The tags added in step-3c (Party Ledger tags) have been highlighted (red-color).

ii) FORMULA is an attribute supported by UDIMagic. This tells UDIMagic to apply MS-Excel formula. All formulas supported by MS-Excel can be used with UDIMagic.

*iii) Example:- =ROUND(D#,2)*1*
This instructs UDIMagic to apply MS-Excel formula viz ROUND() which is used to round-off numeric values At run-time the # (hash symbol) is substituted by UDIMagic with the row-numbers like 2,3,.. and so on.

Step 3d: Adding tags for Cash Ledger (Debit A/c).

XML tags as per Tally format	XML-Tags as per UDIMagic format
<VOUCHER REMOTEID="0613b33a-c0b9-4b3a-ab64-091bb154504f-00000001" VCHTYPE="Receipt" ACTION="Create"> <DATE>20080401</DATE> <EFFECTIVEDATE>20080401</EFFECTIVEDATE > <VOUCHERTYPENAME>Receipt</VOUCHERTYPENAME> <ISINVOICE>No</ISINVOICE> <REFERENCE>1</REFERENCE> <VOUCHERNUMBER>1</VOUCHERNUMBER> <ALLLEDGERENTRIES.LIST> <LEDGERNAME>Abc Co.</LEDGERNAME> <ISDEEMEDPOSITIVE>No</ISDEEMEDPOSITIVE> <AMOUNT>5000.00</AMOUNT> </ALLLEDGERENTRIES.LIST> <ALLLEDGERENTRIES.LIST> <LEDGERNAME>Cash</LEDGERNAME> <ISDEEMEDPOSITIVE>Yes</ISDEEMEDPOSITIVE> <AMOUNT>-5000.00</AMOUNT> </ALLLEDGERENTRIES.LIST> </VOUCHER>	<VOUCHER> <!-- Date is to be taken from Column B --> <DATE COLUMNREFERENCE="B"/> <EFFECTIVEDATE COLUMNREFERENCE="B"/> <!-- Voucher type name is specified here --> <VOUCHERTYPENAME>Receipt</VOUCHERTYPENAME> <ISINVOICE>No</ISINVOICE> <REFERENCE COLUMNREFERENCE="A"/> <VOUCHERNUMBER COLUMNREFERENCE="A"/> <!-- Party Ledger to be Credited --> <ALLLEDGERENTRIES.LIST> <ISDEEMEDPOSITIVE>No</ISDEEMEDPOSITIVE> <!--Party Name to be taken from Column C --> <LEDGERNAME COLUMNREFERENCE="C"/> <!-- Example: =Round(D2,2)*1 --> <AMOUNT FORMULA ="=+Round(D#,2)*1"/> </ALLLEDGERENTRIES.LIST> <!-- Cash Ledger to be Debited --> <ALLLEDGERENTRIES.LIST> <!-- Must be Yes if Debit Amount --> <ISDEEMEDPOSITIVE>Yes</ISDEEMEDPOSITIVE> <LEDGERNAME>Cash</LEDGERNAME> <!-- Amount is to be taken from Column D --> <!-- Example: =Round(D2,2)*-1 --> <AMOUNT FORMULA ="=+Round(D#,2)*-1"/> </ALLLEDGERENTRIES.LIST> </VOUCHER>

Remarks:-
i)The tags added in step-3d (Cash Ledger tags) have been highlighted (red-color).

ii) DEBIT Amount is to be shown as Negative-value in Tally Software. Hence, we multiply the AMOUNT with –1. The FORMULA is ***Round(D#,2)* -1***

iii) <ISDEEMEDPOSITIVE> tag must be set as ***Yes*** *for DEBIT Amounts.*

Step 3e: Adding the GUID tag.

XML tags as per Tally format	XML-Tags as per UDIMagic format
<VOUCHER REMOTEID="0613b33a-c0b9-4b3a-ab64-091bb154504f-00000001" VCHTYPE="Receipt" ACTION="Create"> <GUID>0613b33a-c0b9-4b3a-ab64-091bb154504f-00000001</GUID> ….other tags…. </VOUCHER>	<VOUCHER> <GUID FORMULA="=+A# & B#"/> ….other tags…. </VOUCHER>

Remarks:-
i)The tags added in step-3e (GUID tag) have been highlighted (red-color).

ii) The GUID tag-value must be unique for each voucher. Herein, we use the values of Column A (Sr.No) and Column B (Date) to generate a unique ID.

Example :-

SrNo (Column A)	Date (Column B)	GUID value (A# & B#)	Remarks
1	01/04/2008	139539	When we use the FORMULA **"=+A2 & B2",** the date 01/04/2008 is automatically converted into numeric-value 39539 (MS-Excel internally stores this value for 01/04/2008). Hence, the GUID value is "1" & "39539".i.e. 139539
2	01/04/2008	239539	-- do --
3	02/04/2008	339540	-- do --
4	02/04/2008	439541	-- do --
5	02/04/2008	539542	-- do --

iii) It is assumed the SrNo entered in the Excel sheet (Column A) will always be unique through-out the year.

iv) There can be several other alternative-methods for generating GUID-value. The basic objective is that we need a unique value (GUID) for each voucher.

Next: Complete XML tags

Table 3

Complete XML-Tags

```
<!-- These XML tags are added to Excel sheet at run-time by UDIMAGIC  -->
<XMLTAGS CELLREFERENCE="A1" xmlns:UDF="TallyUDF">

  <!-- Specifies that this (i.e Column as mentioned above) is the key field -->
  <COLUMNNAME.LIST>
    <COLUMNNAME>ID</COLUMNNAME>
  </COLUMNNAME.LIST>

  <!-- Create Party Ledger Master -->
  <MASTER TYPE="LEDGER">
    <NAME.LIST>
      <!-- Get the Name from Column C -->
      <NAME COLUMNREFERENCE="C"/>
    </NAME.LIST>
    <!-- Mailing Name -->
    <ADDITIONALNAME COLUMNREFERENCE="C"/>
    <!-- This is the Group Name -->
    <PARENT>Sundry Debtors</PARENT>
    <ISBILLWISEON>Yes</ISBILLWISEON>
    <ISCOSTCENTRESON>No</ISCOSTCENTRESON>
  </MASTER>

  <!-- Create/Alter RECEIPT Vouchers -->
  <VOUCHER>
    <!-- Herein we take up values from Column A and B. i.e. SrNo and Date       -->
    <!-- Example:- 101/04/2008. The purpose is basically to have a unique value -->
    <GUID FORMULA="=+A# &amp;amp; B#"/>

    <!-- Date is to be taken from Column B -->
    <DATE COLUMNREFERENCE="B"/>
    <EFFECTIVEDATE COLUMNREFERENCE="B"/>

    <!-- Voucher type name is specified here -->
    <VOUCHERTYPENAME>Receipt</VOUCHERTYPENAME>
    <ISINVOICE>No</ISINVOICE>
    <REFERENCE COLUMNREFERENCE="A"/>
    <VOUCHERNUMBER COLUMNREFERENCE="A"/>

    <!-- Party Ledger to be Credited -->
    <ALLLEDGERENTRIES.LIST>
      <ISDEEMEDPOSITIVE>No</ISDEEMEDPOSITIVE>
      <!-- Party Name to be taken from Column C -->
      <LEDGERNAME COLUMNREFERENCE="C"/>
      <!-- Amount is to be taken from Column D. Herein, we are using a FORMULA which is
MS-EXCEL formula -->
      <!-- Example: =Round(D2,2)*1 -->
      <AMOUNT FORMULA ="=+Round(D#,2)*1"/>
    </ALLLEDGERENTRIES.LIST>

    <!-- Cash Ledger to be Debited -->
    <ALLLEDGERENTRIES.LIST>
      <!-- Must be Yes if Debit Amount -->
      <ISDEEMEDPOSITIVE>Yes</ISDEEMEDPOSITIVE>
      <LEDGERNAME>Cash</LEDGERNAME>
      <!-- Amount is to be taken from Column D. Herein, we are using a FORMULA which is
MS-EXCEL formula -->
      <!-- Example: =Round(D2,2)*-1 -->
      <AMOUNT FORMULA ="=+Round(D#,2)*-1"/>
    </ALLLEDGERENTRIES.LIST>

  </VOUCHER>
</XMLTAGS>
```

Downloads:-

1) Excel sheet and XML tags for Exercise-17
   http://www.rtslink.com/exercise/exercise-17-cash-receipt-vouchers.zip

References:-

1) Understanding XML tags:-
   http://www.rtslink.com/udimagic-xml-tags.html

2) Tutorial- Writing XML-tags for UNIT Masters
   http://www.rtslink.com/udimagic-tutorials/udimagic-tutorials.html