**Personal-Accounting**

*Process Description*

**2019**

**>>:** Process Flow

**>>>>:** Subprocesses

**table[]:** Reference to table

code: Example Code

**Assets:** Forms / GUI / Pushbutton / Combobox

**database:** Output

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**>> Start personal-accounting**

**>> Option welcome**

**Select Existing / Create New Company or Undertaking**

**>>>> Select Existing company\_db**

**>>>> Create New new\_company**

**(Define Company / Undertaking Name def\_co, add Description def\_co\_descr, Select functional Currency select\_fuc, Define Username def\_user\_name, Set Password def\_password)**  
**co\_database, fuc, user\_name, password, tables[journal, currencies, …]**

**>> Login login\_form**

**Username & Password Prompt**

**>> Option start\_screen**

**A. Masterdata Management masterdata\_button / B. Financial Accounting financial\_accounting\_button / C. Financial Reporting financial\_reporting\_button**

# Masterdata Management (== SQL Tables in DB)

**>> Option masterdata\_button**

**Select Masterdata Tables**

**>> Option masterdata\_form**

**Display selected table display\_masterdata / load (replace) new masterdata (CSV) load\_masterdata**

## SQL Table DB Setup

|  |  |
| --- | --- |
| **Table** | **Description** |
| journal | Column 1: Incremental Integer  Column 2: Posting Key  Column 3: Account Number  Column 4: Account Name  Column 5: Document Number (8-Digit)  Column 6: Value Date  Column 7: Posting Date  Column 8: Business Case Number  Column 9: Counterparty  Column 10: Counterparty Name  Column 11: Reference  Column 12: Journal Text  Column 13: Document Currency  Column 14: Amount in Doc Currency  Column 15: Transactional FX  Column 16: Amount in Functional Currency  Column 17: Amount  Column 18: VAT Code  Column 19: VAT Type  Column 20: VAT %  Column 21: Period  Column 22: Year  Column 23: Non-Business in % |
| currencies | Column 1: Currency Code (3-CHAR String (ISO))  Column 2: Currency Description (String, limit 25 CHAR) |
| end\_rates | Column 1: Currency Code (3-CHAR String)  Column 2: Rate (Float, 4 Decimals) for Period 01  Column 3: Period 02  …  Column 12: Period 12 |
| trans\_rates | Column 1: Currency Code (3-CHAR String)  Column 2: Rate (Float, 4 Decimals) for Period 01  Column 3: Period 02  …  Column 12: Period 12 |
| reference\_o | Column 1: Reference Code (8-Digit integer), populated from **table[journal]** |
| reference\_i | Column 1: Reference Code (8-Digit integer) , populated from **table[journal]** |
| coa | Column 1: Account Number (6-Digit Integer)  Column 2: Account Description (String, limit 25 CHAR) |
| vat | Column 1: VAT Code (1-Digit Integer)  Column 2: VAT Type (String, limit 25 CHAR)  Column 3: VAT % (Float, 3 decimals) |
| customers | Column 1: Customer Number (4-Digit Integer)  Column 2: Customer Name (String, limit 25 CHAR)  Column 3: Street (String)  Column 4: Zip Code (String)  Column 5: City (String)  Column 6: Contact (String)  Column 7: Contact Email (String)  Column 8: Contact Phone Number (String) |
| suppliers | Column 1: Customer Number (4-Digit Integer)  Column 2: Customer Name (String, limit 25 CHAR)  Column 3: Street (String)  Column 4: Zip Code (String)  Column 5: City (String)  Column 6: Contact (String)  Column 7: Contact Email (String)  Column 8: Contact Phone Number (String) |
| pk | Column 1: Posting Key (3-CHAR String)  Column 2: Description (String, limit 25 CHAR) |

## Journal Table

1. Doc = Posting via Doc Templates
2. Man = Manual Postings
3. A = Automatically populated
4. M = Manual Input

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute | Doc | Man | Description | Format | Source |
| number | A | A | Incremental Numbering of JEs by line item | Integer |  |
| posting\_key | A | M | Posting Key enabling derivation for reporting (dr, cr, move type) | String | **table[pk]** |
| account | A | M | Account number | String | **table[coa]** |
| account\_description | A | A | Automaticall derived based on input account | String | **table[coa]** |
| doc\_number | A | A | Unix = int(time.time()) | Integer |  |
| value\_date | M | M | Manual Input date = “DD.MM.YYYY”  %d.%m.%Y | String |  |
| posting\_date | A | A | Unix = time.time()  datetime.utcfromtimestamp(unix).strftime(‘%d.%m.%Y') | String |  |
| business\_case | M | N | Populated via Doc Template  None Value if manual input | Integer | **table[doc\_template]** |
| counterparty | M | M | Available inputs from **table[customers], table[suppliers]** | Integer | **table[customers], table[suppliers]** |
| counterparty\_name | A | A | Based on Selection counterparty and **table[customers], table[suppliers]** | String | **table[customers], table[suppliers]** |
| reference | A | A | Accounts Payable / Receivable Relevant only – Unique 8 Digit Number  following an o (receivable) or i (payable) | String |  |
| journal\_text | M | M | Manual Input by user | String |  |
| doc\_currency | M | M | Available Inputs  Not available for cash transactions  If doc\_currency = functional currency  Functional currency (3-Digit ISO Code) | String | **table[currencies]** |
| amount\_in\_doc\_currency | M | M | Manual input in float  Import math  x = (10/3)  x = math.ceil(x\*100)/100 | Float |  |
| transactional\_fx | A | A | Based on **table[trans\_rate]** | Float | **table[trans\_rate]** |
| amount\_in\_functional\_currency | A | A | = amount\_in\_doc\_currency \* transactional\_fx | Float |  |
| amount | A | A | Absolute amount of amount\_in\_functional\_currency  abs(y) | Float |  |
| vat\_code | M | M | Available Inputs based on **table[vat]** | String |  |
| vat\_type | A | A | Based on **table[vat]** | String |  |
| vat\_percent | A | A | Based on **table[vat]** | Float |  |
| period | A | A | MM (e.g. 01) | String |  |
| Year | A | A | YYYY (e.g. 2019) | String |  |
| non\_business | M | M | X% | Float |  |

## Ending Rates Table

**table[end\_rates]**

*Ending Rates for open position revaluations (loaded during month-end closing for past month):*

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| currency | Jan | Feb | Mar | Apr | Mai | Jun | Jul | Aug | Sep | Oct | Nov | dec |
| FUC  (Functional Currency)  **table[currencies]** | Float, 4 Decimals |  |  |  |  |  |  |  |  |  |  |  |
| CUR  (Document Currency)  **table[currencies]** | Float, 4 Decimals |  |  |  |  |  |  |  |  |  |  |  |

## Transactional Rates Table

**table[trans\_rates]**

*Transactional Rates for initial recognition (loaded during period end closing for upcoming month):*

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| currency | Jan | Feb | Mar | Apr | Mai | Jun | Jul | Aug | Sep | Oct | Nov | dec |
| FUC (3-Digit ISO String)  (Functional Currency)  **table[currencies]** | Float, 4 Decimals |  |  |  |  |  |  |  |  |  |  |  |
| CUR (3-Digit ISO String)  (Document Currency)  **table[currencies]** | Float, 4 Decimals |  |  |  |  |  |  |  |  |  |  |  |

## Outbound Reference Table

**table[reference\_o]**

*Outbound (customer Invoices) automatically populated by entries in* **table[journal]***:*

|  |
| --- |
| Reference\_o |
| String, 9 CHAR |

## Outbound Reference Table

**table[reference\_i]**

*Inbound (Supplier Invoices) automatically populated by entries in* **table[journal]***:*

|  |
| --- |
| reference\_i |
| String, 9 CHAR |

## COA Table

**table[coa]**

|  |  |
| --- | --- |
| account | account\_description |
| Integer, 6 Digits | String, limit 25 CHAR |

## VAT Table

**table[vat]**

|  |  |  |
| --- | --- | --- |
| vat\_code | vat\_type | vat\_percent |
| Integer, 6 Digits | String, limit 25 CHAR | String, limit 25 CHAR |

## Customer Table

**table[customers]**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| counterparty | counterparty\_name | address | zip\_code | city | contact | email | phone |
| Integer, 4 Digits | String, limit 25 CHAR | String | Integer | String | String | String | String |

## Supplier Table

**table[suppliers]**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| counterparty | counterparty\_name | address | zip\_code | city | contact | email | phone |
| Integer, 4 Digits | String, limit 25 CHAR | String | Integer | String | String | String | String |

## Posting Key Tables

**table[pk]**

|  |  |
| --- | --- |
| posting\_key | description |
| String, 3 CHAR | String, limit 25 CHAR |