

Procedure description dbo.usp_PostInvoice

Business

This procedure "posts" a draft invoice, meaning it officially approves and records it in the company's accounting books. When an invoice is ready to be finalized, a user (or an automated process) calls this procedure. It checks that the invoice is still in draft state, then creates the corresponding accounting entries (debits for each invoice line and a matching credit to the accounts-receivable account), and finally marks the invoice as posted, recording who approved it and when. If anything goes wrong during the process, all changes are cancelled and the error is logged for review.

Technical

Input parameters:

- @InvoiceID INT — the unique identifier of the invoice to be posted
- @PostedBy SYSNAME (optional, default NULL) — the name of the user performing the posting; falls back to the current SQL login if not supplied

Used objects:

- dbo.Invoice (table)
- dbo.InvoiceLine (table)
- dbo.GLEntry (table)
- dbo.ErrorLog (table)

Logic:

- Step 1: Guard check — verify that the invoice exists in dbo.Invoice with Status = 'Draft'; if not, raise an error and exit immediately
- Step 2: Begin an explicit transaction with XACT_ABORT ON to ensure atomicity
- Step 3: Insert one debit GLEntry row per invoice line (AccountID, Amount as Debit, 0 as Credit) from dbo.InvoiceLine
- Step 4: Insert one credit GLEntry row for the total invoice amount against the AR account (ARAccountID, 0 as Debit, SUM of line amounts as Credit) from dbo.Invoice joined to dbo.InvoiceLine
- Step 5: Update dbo.Invoice — set Status to 'Posted', record PostedAt timestamp and PostedBy (supplied value or current SQL login)
- Step 6: Commit the transaction
- Step 7: On any error — rollback the transaction, insert an error record into dbo.ErrorLog, then re-throw the original error to the caller

Side effects:

- INSERT into dbo.GLEntry (two separate insert operations)
- UPDATE on dbo.Invoice
- INSERT into dbo.ErrorLog (only on error)

Diagram

