Design

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## Persistent Storage Design

### File Design

#### Invoice Table

|  |  |  |  |
| --- | --- | --- | --- |
| Column Name | Data Type | Allow  Nulls | Details |
| Invoice\_ID | Int | No | Primary Key |
| Currency\_Code | Nvarchar | Yes |  |
| Due\_Date | Datetime | Yes | Invoice Due Date |
| Posting\_Date | Datetime | Yes | Date Invoice Posted |
| StatusCode | Int | No |  |
| Vendor\_ID | Int | No | Foreign Key |
| Vendor\_InvNo | Nvarchar | Yes | Vendor Invoice Number |
| Invoice\_Value | Float | Yes |  |

#### Vendor Table

|  |  |  |  |
| --- | --- | --- | --- |
| Column Name | Data Type | Allow  Nulls | Details |
| Vendor\_ID | Int | No | Primary Key |
| Vendor\_Name | Nvarchar | No |  |
| Vendor\_Address | Nvarchar | No |  |
| Vendor\_Address2 | Nvarchar | Yes |  |
| Vendor\_Country | Nvarchar | No |  |
| Vendor\_Currency | Nvarchar | No |  |
| Vendor\_Email | Nvarchar | Yes |  |
| Vendor-Phone | Nvarchar | Yes |  |
| Vendor\_IBAN | Nvarchar | Yes |  |

### XML Files

#### Invoice.XML

A serialised file containing paid invoices. This file is in XML format and will be use to import paid invoices to the the target Financial Accounts database

|  |  |  |
| --- | --- | --- |
| Column Name | Data Type | Details |
| InvoiceID | Text |  |
| InvoiceValue | Text |  |
| PostingDate | Text |  |
| PostingDesc | Text |  |
| VendorID | Text |  |
| VendorInvNo | Text |  |
| Currency | Text |  |

#### Payment.XML

A serialised file containg SEPA payment data. The file is in XML format and contains three main levels of data

***Level 1 – File Summary***

This level summarises the following;

The number of payments in the file

The value of payments in the file

|  |  |  |
| --- | --- | --- |
| Column Name | Data Type | Details |
| Value | Text |  |
| Number | Text |  |

***Level 2 – Transaction Type Summary***

This level summarises the following;

The number of payments in the file for the transaction type

The value of payments in the file fpr the transaction type

|  |  |  |
| --- | --- | --- |
| Column Name | Data Type | Details |
| Value | Text |  |
| Number | Text |  |

***Level 3 – Payments***

This level records the individual payment transactions

|  |  |  |
| --- | --- | --- |
| Column Name | Data Type | Details |
| Value | Text | Payment Value |
| Number | Text | Total invoices paid |
| VendorName | Text | Nameof Vendor |

### Stored Procedures

#### PopulateVendors

A stored procedure which references the target Financial Accounts database to complete the following tasks;

1. Delete all records in the Vendor Table
2. Populate the Vendor Table with Vendor records that have outstanding invoices due for payment

See Appendix 1

#### PopulateInvoices

A stored procedure which references the target Financial Accounts database to complete the following tasks;

1. Delete all records in the Invoice Table
2. Populate the Invoice Table with outstanding invoices due for payment

See Appendix 2

#### AnonymiseData

A stored procedure to anonymise the source data to ensure confidentiality in the Pilot System

See Appendix 3

### Appendix 1

USE [SEPA]

GO

/\*\*\*\*\*\* Object: StoredProcedure [dbo].[PopulateVendors] Script Date: 27/05/2019 19:55:02 \*\*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

-- =============================================

-- Author: <Author,,Name>

-- Create date: <Create Date,,>

-- Description: <Description,,>

-- =============================================

ALTER PROCEDURE [dbo].[PopulateVendors] AS

BEGIN

-- SET NOCOUNT ON added to prevent extra result sets from

-- interfering with SELECT statements.

SET NOCOUNT ON;

SET IDENTITY\_INSERT Vendors ON;

DELETE FROM Vendors WHERE Vendor\_ID is not null

INSERT INTO sepa.dbo.Vendors(Vendor\_ID,Vendor\_Name,Vendor\_Address,Vendor\_Address2,Vendor\_City,Vendor\_Currency,Vendor\_Country,Vendor\_Email,Vendor\_Phone)

SELECT TOP 100

[No\_]

,[Name]

,[Address]

,[Address 2]

,[City]

,[Currency Code]

,[Country Code]

,[E-Mail]

,[Telephone No\_]

FROM

Test\_Navision.[dbo].[FR Kelly & Co\_$Vendor]

WHERE

[Currency Code] in ('EUR', 'STG')

AND

[Country Code] IN ('IRELAND','UK')

AND [No\_] IN

(sELECT [Buy-from Vendor No\_] FROM [Test\_Navision].[dbo].[FR Kelly & Co\_$Purch\_ Inv\_ Header])

END

### Appendix 2

USE [SEPA]

GO

/\*\*\*\*\*\* Object: StoredProcedure [dbo].[PopulateInvoices] Script Date: 27/05/2019 20:02:43 \*\*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

-- =============================================

-- Author: Colm Carberry

-- Create date: May 18, 2019

-- Description: Populate Invoice Table with data

-- =============================================

ALTER PROCEDURE [dbo].[PopulateInvoices]

AS

BEGIN

/\*

Script to insert Invoice Records from Source Database to Invoices Table

Delete all records prior to adding records

Calculate Toal value from Line Items

\*/

-- SET NOCOUNT ON added to prevent extra result sets from

-- interfering with SELECT statements.

SET NOCOUNT ON;

SET IDENTITY\_INSERT Vendors OFF;

SET IDENTITY\_INSERT Invoices ON;

DELETE FROM Invoices WHERE Vendor\_ID is not null

INSERT INTO sepa.dbo.Invoices(Invoice\_ID,Vendor\_ID,Vendor\_InvNo,Currency\_Code,Posting\_Desc,Posting\_Date,Due\_Date,Discount,StatusCode)

SELECT TOP 1000

[No\_]

,[Buy-from Vendor No\_]

,[Vendor Invoice No\_]

,[Currency Code]

,[Posting Description]

,[Posting Date]

,[Due Date]

,[Payment Discount %]

,0

FROM

Test\_Navision.[dbo].[FR Kelly & Co\_$Purch\_ Inv\_ Header]

WHERE

[Currency Code] in (' ', 'STG')

and [Buy-from Vendor No\_] in

(select Vendor\_ID from Vendors)

-- Update Invoice\_Value field with sum of Detail Lines

UPDATE Invoices

SET Invoice\_Value = (SELECT SUM (Amount) as s1

FROM [Test\_Navision].[dbo].[FR Kelly & Co\_$Purch\_ Inv\_ Line] PL WHERE [Invoice\_ID] = PL.[Document No\_])

END

### Appendix 3

USE [SEPA]

GO

/\*\*\*\*\*\* Object: StoredProcedure [dbo].[AnonymiseData] Script Date: 27/05/2019 20:03:11 \*\*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

-- =============================================

-- Author: Colm Carberry

-- Create date: May 20, 2019

-- Description: Anonymise Test Data

-- =============================================

ALTER PROCEDURE [dbo].[AnonymiseData]

AS

BEGIN

/\*

Delete all records prior to adding records

\*/

-- SET NOCOUNT ON added to prevent extra result sets from

-- interfering with SELECT statements.

SET NOCOUNT ON;

SET IDENTITY\_INSERT Vendors OFF;

SET IDENTITY\_INSERT Invoices ON;

/\*

Anonymise data selected from Finacial System

\*/

update invoices set due\_date = (posting\_date + 30)

delete from invoices where Invoice\_Value is NULL

update vendors set Vendor\_Name = CONCAT('Test Vendor Name ', Vendor\_ID)

update vendors set Vendor\_Address = CONCAT('Test Vendor Address --', Vendor\_ID)

update vendors set Vendor\_Address2 = CONCAT('Test Vendor Address 2--', Vendor\_ID)

update vendors set Vendor\_Email = CONCAT('info@vendor', Vendor\_ID, '.com')

update vendors set Vendor\_IBAN = CONCAT('IE75BOFI9037795999',cast(Vendor\_ID as varchar(4)))

END