## Домашна 3 – 211177

За оваа домашна ги скокнав сите опционални барања одноно дирек отидов на ДелЗ барање 3 заедно споено со барање 4

```
USE WideWorldImportersDW;

GO

DROP TABLE IF EXISTS [Integration].[ETL_Status]

CREATE TABLE [Integration].[ETL_Status] (
        [StatusID] INT IDENTITY(1,1) PRIMARY KEY,
        [TableName] NVARCHAR(128) NOT NULL,
        [StartTime] DATETIME NOT NULL,
        [EndTime] DATETIME NULL,
        [Status] NVARCHAR(50) NOT NULL,
        [RowsAffected] INT NULL,
        [ErrorMessage] NVARCHAR(MAX) NULL,
        [LineageKey] INT NOT NULL DEFAULT 1
);

CREATE NONCLUSTERED INDEX [IX_ETL_Status_TableName_StartTime]
ON [Integration].[ETL_Status] ([TableName], [StartTime]);
```

```
CREATE OR ALTER PROCEDURE [Integration].[usp_Load_Fact_Purchase]
BEGIN
   DECLARE @StatusID INT;
   DECLARE @RowsAffected INT = 0;
   DECLARE @ErrorMessage NVARCHAR(MAX);
   DECLARE @StartTime DATETIME = GETDATE();
   DECLARE @LineageKey INT = 1;
   DECLARE @LastRunTime DATETIME;
   SELECT @LastRunTime = ISNULL(MAX([StartTime]), '1900-01-01')
   FROM [Integration].[ETL_Status]
   WHERE [TableName] = 'Fact.Purchase' AND [Status] = 'Completed';
    INSERT INTO [Integration].[ETL_Status] (
        [TableName], [StartTime], [Status], [LineageKey]
    VALUES (
        'Fact.Purchase', @StartTime, 'Started', @LineageKey
   SET @StatusID = SCOPE_IDENTITY();
```

```
IF OBJECT_ID('tempdb..#PurchaseStaging') IS NOT NULL
    DROP TABLE #PurchaseStaging;
CREATE TABLE #PurchaseStaging (
    [DateKey] DATE NOT NULL,
    [SupplierKey] INT NOT NULL,
    [StockItemKey] INT NOT NULL,
    [WWIPurchaseOrderID] INT NULL,
    [OrderedOuters] INT NOT NULL,
    [OrderedQuantity] INT NOT NULL,
    [ReceivedOuters] INT NOT NULL,
    [Package] NVARCHAR(50) NOT NULL,
    [IsOrderFinalized] BIT NOT NULL,
    [LineageKey] INT NOT NULL
INSERT INTO #PurchaseStaging (
    [DateKey], [Supplie rKey], [StockItemKey], [WWIPurchaseOrderID],
    [OrderedOuters], [OrderedQuantity], [ReceivedOuters], [Package],
    [IsOrderFinalized], [LineageKey]
    COALESCE(CAST(p.OrderDate AS DATE), '1900-01-01') AS [DateKey],
    s.[Supplier Key],
    si.[Stock Item Key],
    p.[PurchaseOrderID] AS [WWIPurchaseOrderID],
    pl.[OrderedOuters],
    pl.[OrderedOuters] * si.[Quantity Per Outer] AS [OrderedQuantity],
    pl.[ReceivedOuters],
    ISNULL(pt.[PackageTypeName], 'Unknown') AS [Package],
    CASE WHEN p.[IsOrderFinalized] = 1 THEN 1 ELSE 0 END AS [IsOrderFinalized],
   @LineageKey
FROM [WideWorldImporters].[Purchasing].[PurchaseOrders] p
INNER JOIN [WideWorldImporters].[Purchasing].[PurchaseOrderLines] pl
    ON p.[PurchaseOrderID] = pl.[PurchaseOrderID]
INNER JOIN [WideWorldImportersDW].[Dimension].[Supplier] s
    ON p.[SupplierID] = s.[WWI Supplier ID]
INNER JOIN [WideWorldImportersDW].[Dimension].[Stock Item] si
    ON pl.[StockItemID] = si.[WWI Stock Item ID]
INNER JOIN [WideWorldImportersDW].[Dimension].[Date] d
   ON COALESCE(CAST(p.OrderDate AS DATE), '1900-01-01') = d.[Date]
LEFT JOIN [WideWorldImporters].[Warehouse].[PackageTypes] pt
   ON pl.[PackageTypeID] = pt.[PackageTypeID]
WHERE (p.[LastEditedWhen] > @LastRunTime OR pl.[LastEditedWhen] > @LastRunTime);
INSERT INTO [WideWorldImportersDW].[Fact].[Purchase] (
    [Date Key], [Supplier Key], [Stock Item Key], [WWI Purchase Order ID],
    [Ordered Outers], [Ordered Quantity], [Received Outers], [Package],
    [Is Order Finalized], [Lineage Key]
    [DateKey], [SupplierKey], [StockItemKey], [WWIPurchaseOrderID],
    [OrderedOuters], [OrderedQuantity], [ReceivedOuters], [Package],
    [IsOrderFinalized], [LineageKey]
```

```
FROM #PurchaseStaging;
        SET @RowsAffected = @@ROWCOUNT;
        UPDATE [Integration].[ETL_Status]
            [EndTime] = GETDATE(),
            [Status] = 'Completed',
            [RowsAffected] = @RowsAffected,
            [ErrorMessage] = NULL
        WHERE [StatusID] = @StatusID;
        DROP TABLE #PurchaseStaging;
    END TRY
        SET @ErrorMessage = ERROR_MESSAGE();
        UPDATE [Integration].[ETL_Status]
            [EndTime] = GETDATE(),
            [Status] = 'Failed',
            [RowsAffected] = @RowsAffected,
            [ErrorMessage] = @ErrorMessage
        WHERE [StatusID] = @StatusID;
        IF OBJECT_ID('tempdb..#PurchaseStaging') IS NOT NULL
            DROP TABLE #PurchaseStaging;
    END CATCH;
END;
GO
```

```
EXEC [Integration].[usp_Load_Fact_Purchase];

SELECT

[StatusID],
[TableName],
[StartTime],
[EndTime],
[Status],
[RowsAffected],
[ErrorMessage],
[LineageKey]

FROM [WideWorldImportersDW].[Integration].[ETL_Status]

WHERE [TableName] = 'Fact.Purchase'

ORDER BY [StartTime] DESC;
```

