From:	Justin Pope
Sent:	Friday, December 2, 2022 3:41 PM
To:	Cather Cheese; Simon Conradie; Ben Erickson; Richard Bentley
Cc:	Maureen Minard
Subject:	RE: MRP Job and Scripts

@Simon Conradie,

Everything has bee rolled out in the Azure environment. Created the sql objects with my initials of _jkp appended to them so you can compare. Let me know if we can move forward.

Justin Pope
Software Developer

JustinP@summerclassics.com
3140 Pelham Parkway, Pelham, AL 35214

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From: Cather Cheese <CatherC@summerclassics.com>
Sent: Friday, December 2, 2022 3:02 PM
To: Simon Conradie <simon@noeticconsulting.net>; Justin Pope <JustinP@summerclassics.com>; Ben Erickson <ben@summerclassics.com>; Richard Bentley <RichardB@summerclassics.com>
Cc: Maureen Minard <MaureenM@summerclassics.com>
Subject: RE: MRP Job and Scripts

Simon/Justin

Do we still plan to move these changes today?

Cather Cheese
Application Development Manager

CatherC@summerclassics.com
3140 Pelham Parkway, Pelham, AL 35214

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From: Simon Conradie <simon@noeticconsulting.net>
Sent: Friday, December 2, 2022 11:43 AM
To: Justin Pope <JustinP@summerclassics.com>; Ben Erickson <ben@summerclassics.com>; Richard Bentley

<RichardB@summerclassics.com>
Cc: Cather Cheese <CatherC@summerclassics.com>; Maureen Minard <MaureenM@summerclassics.com>
Subject: RE: MRP Job and Scripts

Hi Justin

Thanks for the feedback.

For validating the results, we can use the test database. I would like to run the old and new versions and compare the table contents. Is the test database on the production server?

On point 4, it is not in the code, just in the header that there is still a list:

```
AC      Accessory
AF      Aluminum Furniture
AFC     Aluminum Furniture - China
BE      Bench
BED     Bed
BK      Bookcase
CA      Cast Aluminum Furniture
CAB     Cabinet
CHR     Christmas Accessory
CONT    Console Table
```

I am sure you are correct on point 5 – it is likely the difference in collation.

Regards
Simon

From: Justin Pope <JustinP@summerclassics.com>
Sent: Friday, 02 December 2022 16:38
To: Simon Conradie <simon@noeticconsulting.net>; Ben Erickson <ben@summerclassics.com>; Richard Bentley <RichardB@summerclassics.com>
Cc: Cather Cheese <CatherC@summerclassics.com>; Maureen Minard <MaureenM@summerclassics.com>
Subject: RE: MRP Job and Scripts

Simon,

Attached are the changes suggested.

Comments below

Justin Pope
Software Developer

JustinP@summerclassics.com
3140 Pelham Parkway, Pelham, AL 35214

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From: Simon Conradie <simon@noeticconsulting.net>
Sent: Friday, December 2, 2022 4:21 AM
To: Justin Pope <JustinP@summerclassics.com>; Ben Erickson <ben@summerclassics.com>; Richard Bentley <RichardB@summerclassics.com>
Cc: Cather Cheese <CatherC@summerclassics.com>; Maureen Minard <MaureenM@summerclassics.com>
Subject: RE: MRP Job and Scripts

Hi Justin

I have been through the updates you sent through. I would like to validate the results on current data – is there a way of doing this?
- I can investigate what I can do to set this up and let you know what I can do.
- But because of errors that already exists currently in production, the MRP calculations have not be able to fully run.

In particular
1. procedure [dbo].[usp_LoadHistory]
   Looks fine
2. PROCEDURE [dbo].[usp_LoadProfiles]
   Comment on line 390 is for Monthly time buckets, it should be for Quarterly
   Line 583 'and sd.LineType = '1'' is a repetition of line 581 – Deleted replicated line (JKP)
3. PROCEDURE [dbo].[usp_LoadProfileStatistics]
   I changed the column 'ScrubQuantity' to 'TotalScrubQty' in the table updates in sent you on November 10. I changed it so the name is in line with TotalQuantity and TotalQtyNoNeg. If you stay with 'ScrubQuantity' we will need to update the reports than reference this column. – Changed the name to TotalScrubQty (JKP)
   Cool way you calculate the median, standard deviation and other statistics.
4. PROCEDURE [dbo].[usp_LoadPareto]
   The list of included PartCategory in the header values is redundant as we only use Planner = 'Active' for filtering. – I don't see what you are talking about as I changed the filtering to InvMaster.Planner = 'Active'
   Column 'PctTotalUsage' is missing at the warehouse and dummy warehouse levels (lines 171 to 303) but is there at the aggregated level (lines 322 to 452). It is also missing for the Product Class rankings (lines 456 to 519). – Added the PctTotalUsage to the locations designated
   The calculation of the rankings looks much neater and more efficient.
5. function tvf_GetFinancialsDates -Interesting this crashed for you and not me. I assume it is this the SQL server settings that did not error out. But, I have made the changes suggested.
   This crashed when I tried to run it on my local database.
   Line 47 variable @startingPoint should be @StartingPoint
   Line 48 variable @date should be @Date (twice on this line)

Thanks
Simon

From: Justin Pope <JustinP@summerclassics.com>
Sent: Thursday, 01 December 2022 22:26
To: Simon Conradie <simon@noeticconsulting.net>; Ben Erickson <ben@summerclassics.com>; Richard Bentley <RichardB@summerclassics.com>
Cc: Cather Cheese <CatherC@summerclassics.com>; Maureen Minard <MaureenM@summerclassics.com>
Subject: RE: MRP Job and Scripts

All,

Changes cannot move forward until I get validation. As per our software development cycle, deployments are Monday and Thursday. We can make deployment Monday if I can get @Simon Conradie or @Ben Erickson to approve the changes below.

Thanks,

Justin Pope
Software Developer

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From: Justin Pope
Sent: Monday, November 28, 2022 4:38 PM
To: Simon Conradie <simon@noeticconsulting.net>; Ben Erickson <ben@summerclassics.com>; Richard Bentley <RichardB@summerclassics.com>
Cc: Cather Cheese <CatherC@summerclassics.com>; Maureen Minard <MaureenM@summerclassics.com>
Subject: RE: MRP Job and Scripts

All,

Attached are modifications based on inputs. I have attached a test plan with both the modification to the sql job and table to fix issues in production. WorkLog.txt shows some notes of differences.

Let me know if there are any more modifications.

Justin Pope
Software Developer

JustinP@summerclassics.com
3140 Pelham Parkway, Pelham, AL 35214

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From: Simon Conradie <simon@noeticconsulting.net>
Sent: Wednesday, November 23, 2022 1:14 PM
To: Ben Erickson <ben@summerclassics.com>; Justin Pope <JustinP@summerclassics.com>; Richard Bentley <RichardB@summerclassics.com>
Cc: Cather Cheese <CatherC@summerclassics.com>; Maureen Minard <MaureenM@summerclassics.com>
Subject: RE: MRP Job and Scripts

Sorry – missed that. Yes, we should exclude SCTs.

We are using SorDetail as the team wants the demand to be based on customer order date, not ship or invoice date. Is it best to filter all orders with **InterWhSale** <> 'Y'?

From: Ben Erickson <ben@summerclassics.com>
Sent: 23 November 2022 18:52
To: Simon Conradie <simon@noeticconsulting.net>; Justin Pope <JustinP@summerclassics.com>; Richard Bentley <RichardB@summerclassics.com>
Cc: Cather Cheese <CatherC@summerclassics.com>; Maureen Minard <MaureenM@summerclassics.com>
Subject: RE: MRP Job and Scripts

From an InvMovements perspective, SCT's are TrnTYpe T which is not included in some portions and is included in others (not sure if that's intentional)

Below is the section I was specifically referring to that is looking at SorMaster and SorDetail. There is no filtering to either exclude SCT's or limit to corporate warehouses, so the quantities would be duplicated for all items sold through the retail stores as it would include the sales order from the store to the customer and the sales order for the SCT.

```sql
--      Load data for time buckets for Company only
--      Load data for weekly time buckets - sale transactions on order date

        insert into usr_Profiles (
                                                [StockCode],
                                                [Warehouse],
                                                [UnitType],
                                                [ProfileType],
                                                [MoveType],
                                                [PeriodStartDate],
                                                [PeriodEndDate],
                                                [YearWindow],
                                                [YearPerSeqNo],
                                                [Quantity],
                                                [Hits],
                                                [ScrubQty],
                                                [ProfileRatio],
                                                [ScrubProfileRatio],
                                                [ProfileFlag],
                                                [UpdateDT]
                                                )
        select
                sd.MStockCode           as [StockCode],
                'All'                       as [Warehouse],
                'Q1'                        as [UnitType],
                'Week'                      as [ProfileType],
                'D'                             as [MoveType],
                FD.WeekStartDate        as [PeriodStartDate],
                FD.WeekEndDate              as [PeriodEndDate],
                ''                              as [YearWindow],
                0                               as [YearPerSeqNo],
                sum(sd.MOrderQty)       as [Quantity],
                count(sm.OrderDate)     as [Hits],
                sum(sd.MOrderQty)       as [ScrubQty],
                0                               as [ProfileRatio],
                0                               as [ScrubProfileRatio],
                'N'                             as [ProfileFlag],
                getdate()                   as [UpdateDT]
        from SorDetail as sd
            join SorMaster as sm on sm.SalesOrder = sd.SalesOrder
            cross apply dbo.tvf_GetFinancialsDates(sm.OrderDate) as FD
```

```
        join InvMaster as imas on sd.MStockCode = imas.StockCode
    where imas.Planner = 'Active'
        and WeekSeqNo between @CurrWeekNo - 156 and @CurrWeekNo - 1
    group by sd.MStockCode,
                FD.WeekStartDate,
                FD.WeekEndDate
```

Ben Erickson
Vice President of Information Technology

ben@summerclassics.com
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Telephone: 205-358-9295

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From: Simon Conradie <simon@noeticconsulting.net>
Sent: Wednesday, November 23, 2022 9:30 AM
To: Ben Erickson <ben@summerclassics.com>; Justin Pope <JustinP@summerclassics.com>; Richard Bentley <RichardB@summerclassics.com>
Cc: Cather Cheese <CatherC@summerclassics.com>; Maureen Minard <MaureenM@summerclassics.com>
Subject: RE: MRP Job and Scripts

Hi Ben

As I understand it SCTs are not included. I understand that SCT's have ***MovementType*** = 'I' and ***TrnType*** = 'T' and for the outgoing transaction has the target warehouse in the ***NewWarehouse*** column.

Do your SCTs follow this convention?

Thanks
Simon

From: Ben Erickson <ben@summerclassics.com>
Sent: 22 November 2022 22:55
To: Simon Conradie <simon@noeticconsulting.net>; Justin Pope <JustinP@summerclassics.com>; Richard Bentley <RichardB@summerclassics.com>
Cc: Cather Cheese <CatherC@summerclassics.com>; Maureen Minard <MaureenM@summerclassics.com>
Subject: RE: MRP Job and Scripts

Simon,
The reason I asked on the warehouse filtering is because many of the other procedures were filtering. I'm not sure what the profiles are used for, but with SCT's included we would be double dipping on sales history if including the retail stores and the corporate warehouses with the SCT's.

Ben Erickson
Vice President of Information Technology

ben@summerclassics.com
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Telephone: 205-358-9295

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From: Simon Conradie <simon@noeticconsulting.net>
Sent: Tuesday, November 22, 2022 2:52 PM
To: Ben Erickson <ben@summerclassics.com>; Justin Pope <JustinP@summerclassics.com>; Richard Bentley <RichardB@summerclassics.com>
Cc: Cather Cheese <CatherC@summerclassics.com>; Maureen Minard <MaureenM@summerclassics.com>
Subject: RE: MRP Job and Scripts

Comments below in green.

From: Ben Erickson <ben@summerclassics.com>
Sent: 19 November 2022 00:30
To: Justin Pope <JustinP@summerclassics.com>; Richard Bentley <RichardB@summerclassics.com>
Cc: Cather Cheese <CatherC@summerclassics.com>; Maureen Minard <MaureenM@summerclassics.com>; simon@noeticconsulting.net
Subject: RE: MRP Job and Scripts

Feedback:

- tvf_GetFinicialsDates
    - Correct spelling of Financials
- usp_LoadHistory
    - First select statement:
        - Remove "and imas.UserField3 not in ('8','9')" duplicative of filtering on Planner Agree
        - Add "and sdet.LineType = '1' Agree
- usp_LoadProfiles
    - 3 queries from SorDetail need to add filter on LineType like above
    - Question for Simon, should these also be filtering on warehouse? I am not aware of a need for this. Are sales / issues for some warehouses to be excluded? If so, then perhaps an attribute added to the *InvWhControl+* table would address this. Justin's code looks to be much more efficient than mine.
- Regarding the Pareto table and Pareto procedure, I would remove the product category filter. Agree. We're already limiting everything to where the Planner is Active. This seems both duplicative and potential for issues and required script maintenance as product categories are added. Neat solution to the time windows. Justin's code is definitely more efficient than mine. However, this is the earlier version of the Pareto Load. The *MovementType* = 'I' with TrnType = 'I' should be included to bring in Jeanie's stock codes (Lines 216 to 220 in attached 'Alter Stored Procedure usp_LoadPareto'). The product categories are removed. Also, we need the combined usage (sales and issues) which we will use in stock level calculations (Lines 428 to 490 in attached 'Alter Stored Procedure usp_LoadPareto'). The usage ratio by warehouse (Lines 1345 to 1401) is there for Jeanie's stock codes and any others that are consumed in more than one warehouse.
-

Ben Erickson

Vice President of Information Technology

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From: Justin Pope <JustinP@summerclassics.com>
Sent: Friday, November 18, 2022 3:12 PM
To: Richard Bentley <RichardB@summerclassics.com>
Cc: Cather Cheese <CatherC@summerclassics.com>; Maureen Minard <MaureenM@summerclassics.com>; Ben Erickson <ben@summerclassics.com>; simon@noeticconsulting.net
Subject: RE: MRP Job and Scripts

All,

Attached are the scripts and the modifications that I would suggest moving forward.
Let me know any opinions.

Justin Pope
Software Developer

JustinP@summerclassics.com
3140 Pelham Parkway, Pelham, AL 35214

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From: Richard Bentley <RichardB@summerclassics.com>
Sent: Friday, November 18, 2022 11:30 AM
To: Justin Pope <JustinP@summerclassics.com>
Cc: Cather Cheese <CatherC@summerclassics.com>; Maureen Minard <MaureenM@summerclassics.com>; Ben Erickson <ben@summerclassics.com>
Subject: RE: MRP Job and Scripts

Thanks for all your help Justin!!!

Please keep us updated on testing the MRP script changes.

Thank you! Richard

Richard Bentley
Systems Analyst

RichardB@summerclassics.com

3140 Pelham Parkway, Pelham, AL 35214

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All,

The Load MRP sql job has been set up in production

Justin Pope
Software Developer

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3140 Pelham Parkway, Pelham, AL 35214

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YES

Maureen Minard
Chief Information Officer

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Telephone: 205-378-5644

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From: Justin Pope <JustinP@summerclassics.com>
Sent: Friday, November 18, 2022 10:40 AM
To: Ben Erickson <ben@summerclassics.com>; Richard Bentley <RichardB@summerclassics.com>; Maureen Minard <MaureenM@summerclassics.com>
Cc: Cather Cheese <CatherC@summerclassics.com>
Subject: RE: MRP Job and Scripts

Maureen,

I have sent you an approval request for the emergency change for this job to be set up. SDM 34214

Do I have permission to deploy in production?

Justin Pope
Software Developer

JustinP@summerclassics.com
3140 Pelham Parkway, Pelham, AL 35214

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From: Ben Erickson <ben@summerclassics.com>
Sent: Friday, November 18, 2022 10:31 AM
To: Justin Pope <JustinP@summerclassics.com>; Richard Bentley <RichardB@summerclassics.com>; Maureen Minard <MaureenM@summerclassics.com>
Cc: Cather Cheese <CatherC@summerclassics.com>
Subject: Re: MRP Job and Scripts

Looks good to me.

Ben Erickson
Vice President of Information Technology

ben@summerclassics.com
3140 Pelham Parkway, Pelham, AL 35124
Telephone: 205-358-9295

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From: Justin Pope <JustinP@summerclassics.com>
Sent: Friday, November 18, 2022 9:56 AM
To: Ben Erickson <ben@summerclassics.com>; Richard Bentley <RichardB@summerclassics.com>; Maureen Minard <MaureenM@summerclassics.com>
Cc: Cather Cheese <CatherC@summerclassics.com>
Subject: RE: MRP Job and Scripts

I apologize as I did not attach all files for SDM 34184.

Justin Pope
Software Developer

JustinP@summerclassics.com
3140 Pelham Parkway, Pelham, AL 35214

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From: Justin Pope
Sent: Friday, November 18, 2022 9:51 AM
To: Ben Erickson <ben@summerclassics.com>; Richard Bentley <RichardB@summerclassics.com>; Maureen Minard <MaureenM@summerclassics.com>
Cc: Cather Cheese <CatherC@summerclassics.com>
Subject: MRP Job and Scripts

All,

Just to inform you all as to the status of the MRP Scripts and Job set up:

SDM 34184 – SQL Agent job (MRP)
    Attached is the job script and test plan for setting this job up.

    We will be dropping the job Update InvControl GtrStructureChange and creating the job Load MRP.
    The schedule for the job will be Mondays at four. The following are the steps for the job:

    1) usp_Update_InvControl_GtrStructureChange_Company_100
    2) usp_LoadHistory
    3) usp_LoadProfiles
    4) usp_LoadProfileStatistics
    5) usp_LoadPareto

    I need to first have someone to give me approval that this job is set up correctly (@Ben Erickson) and since the Standard Change Control deployment won't be until 11/28/2022 due to a code freeze, I need special approval to get this in (@Maureen Minard I hear you were giving that out).

SDM 32702 – Forecasting Scripts in SysproCompany100
    I'm currently waiting for access to Azure to work against better data. I just want to confirm that my suggestions will not skew the numbers in any shape or form.
    I will write up a second email outlining my finding once I can get my testing done.

Justin Pope
Software Developer

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