

```

USE [TOC_Jewellery]
GO
/***** Object: StoredProcedure [dbo].[USP_Buffer_Increase_Decrease]    Script Date: 4/10/2022 10:03:23 AM *****/
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
ALTER PROCEDURE [dbo].[USP_Buffer_Increase_Decrease]

@RequestType varchar(200) =NULL,
@StoreCode varchar(200) =NULL,
@Ean varchar(200) =NULL,
@XmlInput AS XML = NULL
--exec [USP_Buffer_Increase_Decrease] 'Buffer_Increase_Decrease','CWH','MAHARAJA_KW2079/2900',''
AS
BEGIN
    SET NOCOUNT ON;
    BEGIN TRY
        DECLARE @Recommended_Buffer as Int=0;
        DECLARE @Noofdays_minus as Int=-7;
        DECLARE @Replenishment_time as Int;
        DECLARE @Counter_date as date;
        DECLARE @Increase_Buffer_Value as Int=1;
        DECLARE @Decrease_Buffer_Value as Int=1;
        SET @StoreCode=@StoreCode;--'4'; ---this will change when job creates @parameter
        SET @Ean=@Ean;--'890395300011'; ---this will change when job creates @parameter

        IF(@RequestType='Buffer_Increase_Decrease')
        BEGIN
            update Tbl_ArsMaster set Recommend_Buffer=@Recommend_Buffer,Recommend_Date='',Warning='',
            [Status]= '' where Store_Code=@StoreCode AND Ean=@Ean;

            ---check Current Buffer value using store code and Ean code
            SELECT top 1 * INTO #tmp_ArsMaster from Tbl_ArsMaster where Ean=@Ean and Store_Code=@StoreCode;
            SET @Replenishment_time=(select top 1 Replenishment_time from Tbl_LocationMaster with(nolock) where Store_Code=@StoreCode);
            SET @Counter_date=(select cast(Recommend_Date as date) from #tmp_ArsMaster)
            SET @Counter_date=dateadd(dd,@Replenishment_time,@Counter_date);
            --looping only those record where buffer value is 1 or 2

            --select Buffer from #tmp_ArsMaster where buffer>=1 and buffer <=2
            IF((select count(*) from #tmp_ArsMaster where buffer>=1 and buffer <=2)>0)
            BEGIN
                print'ajeet'
                DECLARE @SUM_Sale_Qty as Int=0;
                --find the total sale which has happened in the last 42 days
                SET @SUM_Sale_Qty=ISNULL((select SUM(s1.QTY) as Sale_Qty from Tbl_Transaction_master s1 where s1.Store_Code=@StoreCode AND s1.Ean=@Ean
                and s1.[Date] >=DATEADD(dd, @Noofdays_minus, (select max([Date]) from Tbl_Transaction_master))),0);

                --check sold 2 or more pices
                IF(@SUM_Sale_Qty >=2)
                BEGIN
                    print'2'
                    ---get sale data min and max dates
                    select min(s1.[Date]) as mindate, max(s1.[Date]) as maxdate INTO #tempDate from Tbl_Transaction_master s1
                    where s1.[Date] >= DATEADD(dd, @Noofdays_minus, (select max([Date]) from Tbl_Transaction_master )) --where Store_Code=@StoreCode AND Ean=@Ean

                    DECLARE @Inv_NoofDays as int=0;
                    ---check no of days SOH available in Inventory >0
                    SET @Inv_NoofDays=( select count(*) from Tbl_Inventory_Details where SOH >0
                    and Store_Code=@StoreCode AND Ean=@Ean and Inv_date > (select mindate from #tempDate) and Inv_date < (select maxdate from #tempDate));

                    --get dbm policy
                    SELECT top 1 * INTO #tmp_DbmPolicy FROM Tbl_Dbm_policy where Dbm_Policy_Name=(select DBM_Policy from #tmp_ArsMaster);

                    ---check no of days inventory was >0
                    IF(@Inv_NoofDays <= (select Consumption_Frequency from #tmp_DbmPolicy) and (select Store_site_buffer_color from #tmp_ArsMaster) in('Red','Black'))
                    BEGIN
                        IF(@Inv_NoofDays >0)
                        BEGIN
                            SET @Recommended_Buffer=(select isnull(Buffer,0) as Buffer_old from #tmp_ArsMaster)+ @Increase_Buffer_Value;

                            ---update Recommend buffer in Ars Master table for respective storecode and ean code
                            update Tbl_ArsMaster set Recommend_Buffer=ROUND(@Recommended_Buffer,0),Recommend='Increase',Recommend_Date=GETDATE(),
                            [Status]= case when (select isnull(Buffer,0) as Buffer_old from #tmp_ArsMaster) !=@Recommended_Buffer then 'Pending' ELSE
                            (select [Status] from #tmp_ArsMaster) END
                            where Store_Code=@StoreCode AND Ean=@Ean;
                        END
                    END
                    --ELSE
                END
            END
        END
    END TRY
    BEGIN CATCH
        --
    END CATCH
END

```

```

--BEGIN
-- update Tbl_ArsMaster set Recommend_Buffer=0,Recommend='',Recommend_Date='',
-- [Status]= '' where Store_Code=@StoreCode AND Ean=@Ean;
--END

-- select @Recommended_Buffer as Recommended_Buffer;

DROP TABLE #tmp_DbmPolicy;

DROP TABLE #tmpDate;
END
ELSE IF(@SUM_Sale_Qty <=1 and (select [Buffer] from #tmp_ArsMaster)=2)--check sold 0 or 1 pices for skus when buffer is=2
BEGIN
print '3'
DECLARE @Inv_NoofDays_available as int=0;
--get data from inventory tables
SET @Inv_NoofDays_available=( select count(*) from Tbl_Inventory_Details where SOH >0
and Store_Code=@StoreCode AND Ean=@Ean and Inv_date > DATEADD(dd, @Noofdays_minus, (select max(Inv_date) from Tbl_Inventory_Details )));

--get dbm policy
SELECT top 1 * INTO #tmp_DbmPolicy_ FROM Tbl_Dbm_policy where Dbm_Policy_Name=(select DBM_Policy from #tmp_ArsMaster)

---check no of days inv.
IF(@Inv_NoofDays_available > (select Small_Buffer_Reduction from #tmp_DbmPolicy_) and (select Store_site_buffer_color from #tmp_ArsMaster) ='Green')
BEGIN
SET @Recommended_Buffer=(select isnull(Buffer,0) as Buffer_old from #tmp_ArsMaster)- @Decrease_Buffer_Value;

---update Recommend buffer in Ars Master table for respective storecode and ean code
update Tbl_ArsMaster set Recommend_Buffer=ROUND(@Recommended_Buffer,0),Recommend='Decrease',Recommend_Date=GETDATE(),
[Status]= case when (select isnull(Buffer,0) as Buffer_old from #tmp_ArsMaster) !=@Recommended_Buffer then 'Pending' ELSE
(select [Status] from #tmp_ArsMaster) END where Store_Code=@StoreCode AND Ean=@Ean;
END
--ELSE
--BEGIN
-- update Tbl_ArsMaster set Recommend_Buffer=0,Recommend='',Recommend_Date='',
-- [Status]= '' where Store_Code=@StoreCode AND Ean=@Ean;
--END

DROP TABLE #tmp_DbmPolicy_;

END
END --end ofrequest type condition
ELSE IF((select [Buffer] from #tmp_ArsMaster) > 2)
BEGIN
DECLARE @Warning as varchar(100)='';
SELECT top 1 * INTO #tmp_Dbm_large_buffer FROM Tbl_Dbm_policy where Dbm_Policy_Name=(select DBM_Policy from #tmp_ArsMaster);

select top 1 * INTO #tmp_ArsMaster_history from Tbl_ArsMaster_history with(nolock) where 1=1 --cast(Created_at as date)-cast(getdate()-1 as date)
and Ean=@Ean and Store_Code=@StoreCode order by Created_at desc;

----- RED ZONE BUFFER LOGIC-----
DECLARE @Top_Red_zone as decimal(18,2);
DECLARE @Tot_accum_needed as decimal(18,2);
DECLARE @YesterdayTop_Red_zone as decimal(18,2);
DECLARE @Yesterday_Penetration as decimal(18,2);
DECLARE @Cum_Penetration as decimal(18,2);
DECLARE @today_Penetration as decimal(18,2);

SET @Top_Red_zone=(cast((select [Buffer] from #tmp_ArsMaster) as float)*(select Buffer_Red_BP_Level from #tmp_Dbm_large_buffer))/100;
SET @Tot_accum_needed=cast((@Top_Red_zone*(select Increase_Trigger from #tmp_Dbm_large_buffer))/100 as float);

SET @YesterdayTop_Red_zone=(cast((select [Buffer] from #tmp_ArsMaster_history) as float)*(select Buffer_Red_BP_Level from #tmp_Dbm_large_buffer));

SET @Yesterday_Penetration=(@YesterdayTop_Red_zone-isnull((select isnull(SOH,0) from Tbl_Inventory_Details where SOH >0
and Store_Code=@StoreCode AND Ean=@Ean and Inv_date =cast(getdate()-2 as date)),0));

IF(@Yesterday_Penetration < 0)
BEGIN
SET @Yesterday_Penetration=0;
END

SET @today_Penetration=(@Top_Red_zone-isnull((select isnull(SOH,0) from Tbl_Inventory_Details where SOH >0
and Store_Code=@StoreCode AND Ean=@Ean and Inv_date =cast(getdate()-1 as date)),0));

IF(@today_Penetration < 0)
BEGIN
SET @today_Penetration=0;

```

```

END

SET @Cum_Penetration=@today_Penetration+@Yesterday_Penetration;

DECLARE @SUM_of_CONS as decimal(18,2)= (select isnull(sum(cast(QTY as decimal(18,2))),0) from Tbl_Transaction_master where QTY >0
and Store_Code=@StoreCode AND Ean=@Ean and [Date] =cast(getdate())-(ROUND(@Replenishment_time/2,0)) as date));

DECLARE @virtual_pipe_Cnt as decimal(18,2)= (select count(*) from Tbl_Inventory_Details where isnull(SOH,0)+isnull(cast(GIT as decimal(18,2)),0) >=
(cast((select [Buffer] from #tmp_ArsMaster) as float)*(select Buffer_Green_BP_Level from #tmp_Dbm_large_buffer))
and SOH >0 and Store_Code=@StoreCode AND Ean=@Ean and Inv_date > cast(getdate())-@Replenishment_time as date));

IF(@SUM_of_CONS > (select [Buffer] from #tmp_ArsMaster))
BEGIN
    SET @Warning='Sharp Demand Increase';
END
IF(@virtual_pipe_Cnt >0)
BEGIN
    SET @Warning='Improper Replenishment';
END

END

----check cum penetration with curr buffer-----
IF((@Cum_Penetration >=@Tot_accum_needed) and (select Store_site_buffer_color from #tmp_ArsMaster) in('Red','Black'))
BEGIN

DECLARE @Rec_Buffer as decimal(18,2);
SET @Rec_Buffer=cast((select [Buffer] from #tmp_ArsMaster) as float)*(select Increase_Factor from #tmp_Dbm_large_buffer)/100;
print @StoreCode;
print @Ean;

--update Recommend buffer in Ars Master table for respective storecode and ean code
update Tbl_ArsMaster set Recommend_Buffer=ROUND(isnull(Buffer,2)+@Rec_Buffer,0),
Recommend='Increase',Recommend_Date=GETDATE(),Cooling_period='No',Warning=@Warning,
[Status]= case when (select isnull(Buffer,0) as Buffer_old from #tmp_ArsMaster) !=@Rec_Buffer then 'Pending'
ELSE (select [Status] from #tmp_ArsMaster) END
where Store_Code=@StoreCode AND Ean=@Ean;
-- print 'Aq'

END
--
--BEGIN

```