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IF EXISTS (SELECT name
           FROM sysobjects
           WHERE name = N'ExtentCheckerIns'
           AND type = 'TR')
DROP TRIGGER ExtentCheckerIns
GO

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CREATE TRIGGER ExtentCheckerIns
ON dbo.accounts
FOR INSERT , UPDATE

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AS
set nocount on
declare @account as int, @parentacc as int ,@lefttext as int ,@righttext as int
declare @plefttext as int , @prighttext as int ,@chrplefttext as
varchar(50),@chrprighttext as varchar(50)
declare @gpaccount as int , @gprighttext as int , @gplefttext as int
,@chrplefttext as varchar(50),@chrprighttext as varchar(50)
declare @accountcr as int , @parentaccr as int , @lefttextcr as int , @righttextcr
as int
select @account = accountid from inserted
select @parentacc = parentaccount_node from inserted where accountid=@account
select @lefttext = lefttext from inserted where accountid=@account
select @righttext = righttext from inserted where accountid=@account
select @plefttext = lefttext from accounts where accountid=@parentacc
select @prighttext = righttext from accounts where accountid = @parentacc
select @gpaccount = parentaccount_node from accounts where
accountid=@parentacc
select @gplefttext = lefttext from accounts where accountid=@gpaccount
select @gprighttext = righttext from accounts where accountid=@gpaccount
set @chrplefttext = convert(varchar,@plefttext)
set @chrprighttext = convert(varchar,@prighttext)
set @chrplefttext = convert(varchar,@gplefttext)
set @chrprighttext = convert(varchar,@gprighttext)

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/***** FIRST TEST *****/

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if @lefttext = @account and @righttext < @prighttext and (@plefttext-
@prighttext)<>0 --and @righttext>@lefttext
begin
update accounts
set indicator = 'OK'
WHERE accountid = @account
end
else
if @lefttext = @account and @righttext < @prighttext and (@plefttext-
@prighttext)=0 --and @righttext>@lefttext
begin

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update accounts
set indicator = 'THE PARENT ACCOUNT IS NOT A NODE IT IS LEAVE '
WHERE accountid = @account
update accounts
set righttextent=@account
where accountid = @account
update accounts
set parentaccount_node=@gpaccount
where accountid = @account
end
else
if @lefttextent <> @account and @righttextent < @prighttextent and (@plefttextent-
@prighttextent)<>0
begin
update accounts
set indicator = 'THE LEFT EXTENT IS NOT EQUAL THE ACCOUNT ID THE
EXTENTION MUST BE BETWEEN '+' @CHRPLEFTTEXTENT '+' and '+'
@CHRPRIGHTTEXTENT
WHERE accountid = @account
update accounts
set lefttextent = @account
WHERE accountid = @account
end
else
if @lefttextent <> @account and @righttextent < @prighttextent and (@plefttextent-
@prighttextent)=0
begin
update accounts
set indicator = 'THE PARENT ACCOUNT IS NOT NODE IT IS LEAVE AND THE
LEFT EXTENT IS NOT EQUAL THE ACCOUNT ID THE EXTENTION MUST
BE BETWEEN '+' @CHRPLEFTTEXTENT '+' and '+' @CHRPRIGHTTEXTENT
WHERE accountid = @account
update accounts
set lefttextent = @account
WHERE accountid = @account
update accounts
set righttextent=@account
where accountid = @account
update accounts
set parentaccount_node=@gpaccount
where accountid = @account
end
else
if @lefttextent = @account and @righttextent > @prighttextent and (@plefttextent-
@prighttextent)<>0
begin
update accounts
set indicator = 'THE RIGHT EXTENT IS MORE THAN THE PARENT RIGHT
EXTENT THE EXTENTION MUST BE BETWEEN '+' @CHRPLEFTTEXTENT '+'
and '+' @CHRPRIGHTTEXTENT

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WHERE accountid = @account
update accounts
set righttextent = @prighttextent-1
WHERE accountid = @account
end
else
if @lefttextent = @account and @righttextent > @prighttextent and (@plefttextent-
@prighttextent)=0
begin
update accounts
set indicator = 'THE PARENT ACCOUNT IS NOT NODE IT IS LEAVE AND THE
RIGHT EXTENT IS MORE THAN THE PARENT RIGHT EXTENT THE
EXTENTION MUST BE BETWEEN '+' @CHRPLEFTEXTENT '+' and '+'
@CHRPRIGHTTEXTENT
WHERE accountid = @account
update accounts
set righttextent=@account
where accountid = @account
update accounts
set parentaccount_node=@gpaccount
where accountid = @account
end
else
if @lefttextent <> @account and @righttextent > @prighttextent and (@plefttextent-
@prighttextent)<>0
begin
update accounts
set indicator = 'NEITHER THE LEFT EXTENT AND THE RIGHT EXTENT IS
WRONG THE EXTENTION MUST BE BETWEEN '+' @CHRPLEFTEXTENT '+'
and '+' @CHRPRIGHTTEXTENT
WHERE accountid = @account
update accounts
set lefttextent = @account
WHERE accountid = @account
update accounts
set righttextent = @prighttextent-1
WHERE accountid = @account
end
else
if @lefttextent <> @account and @righttextent > @prighttextent and (@plefttextent-
@prighttextent)=0
begin
update accounts
set indicator = 'THE PARENT ACCOUNT IS NOT NODE IT IS LEAVE AND
NEITHER THE LEFT EXTENT AND THE RIGHT EXTENT IS WRONG THE
EXTENTION MUST BE BETWEEN '+' @CHRPLEFTEXTENT '+' and '+'
@CHRPRIGHTTEXTENT
WHERE accountid = @account
update accounts
set lefttextent = @account

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WHERE accountid = @account
update accounts
set rightextent=@account
where accountid = @account
update accounts
set parentaccount_node=@gpaccount
where accountid = @account
end

```

/\*\*\*\*\* SECOND TEST \*\*\*\*\*/

```

if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[TempoA]') and
OBJECTPROPERTY(id, N'IsUserTable') = 1)
drop table [dbo].[TempoA]

```

```

CREATE TABLE [dbo].[TempoA] (
    [AccountID] [int] NULL ,
    [ParentAccount_Node] [int] NULL ,
    [LeftExtent] [int] NULL ,
    [RightExtent] [int] NULL
) ON [PRIMARY]

```

```

insert into dbo.tempoa (accountid,parentaccount_node,leftextent,rightextent)
select accountid,parentaccount_node,leftextent,rightextent from accounts where
parentaccount_node = @parentacc
and accountid<>@account and leftextent<>rightextent

```

```

declare tempoa_crsr cursor
forward_only
keyset
for select accountid,parentaccount_node,leftextent,rightextent from dbo.tempoa
open tempoa_crsr
fetch next from tempoa_crsr into
@accountcr,@parentaccr,@lefttextcr,@righttextcr
while (@@fetch_status<>-1)
begin
if (@@fetch_status<>-2)
begin
if @lefttext > @lefttextcr and @righttext >= @righttextcr
begin
update accounts
set righttext = @account
where accountid =@account
end
fetch next from tempoa_crsr into
@accountcr,@parentaccr,@lefttextcr,@righttextcr
end
end
close tempoa_crsr

```

deallocate tempoa\_csr