Annotated SQL Source Code used within REMS

USE [REM]

GO

/\*\*\*\*\*\* Object: StoredProcedure [dbo].[LoadFacSvcDistribution] Script Date: 04/03/2017 10:09:48 \*\*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

ALTER Procedure [dbo].[LoadFacSvcDistribution]

as

--Step1

/\* Isolate HIV related expenses from National Level Accounts \*/

if object\_id('tempdb..##Step1') is not null drop table ##Step1

select a.ExpenseID,GRZHead,GRZDepartment,GRZProgramme,a.GRZUnit,a.Activity,Service,

Expenditure,SvcrelatedPercent,

Expenditure\*SvcrelatedPercent as SvcExpense

into ##Step1

from [dbo].[TransIFMIS] a

inner join [dbo].[AccountLevelSveWeights] b

on a.GRZUnit = b.GRZUnit and

a.GRZProgramme = b.GRZProgrammes and

a.Activity = b.Activity and a.ExpenseID = b.ExpenseID

--where a.ExpenseID = @ExpenseID and b.ExpenseID = @ExpenseID

--Step2

/\* Compute % HIV service related within National Level Accounts \*/

if object\_id('tempdb..##Step2') is not null drop table ##Step2

select ExpenseID,GRZProgramme,GRZUnit,Service,

sum(Expenditure) as ProgramExpense,

sum(SvcExpense) as ProgramSvcExpense,

sum(SvcExpense)/sum(Expenditure) as PercentSvcProgram

into ##Step2

from ##Step1

where Expenditure <> 0

group by ExpenseID,GRZProgramme,GRZUnit,Service

--Step 3

/\* Isolate National Level HIV expenses to Above Facility or Province Level Expenses \*/

if object\_id('tempdb..##Step3a') is not null drop table ##Step3a

select

a.ExpenseID,

a.GRZProgramme,

a.GRZUnit,

a.Service,

cast(a.GRZUnit as varchar)+cast(a.GRZProgramme as varchar) as GRZAccount,

a.ProgramSvcExpense,

b.IndirectPercent,

a.ProgramSvcExpense\*b.IndirectPercent as AboveFacilityExpense,

a.ProgramSvcExpense-(a.ProgramSvcExpense\*b.IndirectPercent) as StepDownExpense

into ##Step3a

from ##Step2 a

inner join [dbo].[IndirectCost] b

on a.GRZunit =b.GRZUnit and a.GRZProgramme = b.GRZProgramme

and a.Service = b.Service and a.ExpenseID = b.ExpenseID

if object\_id('tempdb..##Step3') is not null drop table ##Step3

select a.\*,HMISCode

into ##Step3

from ##step3a a

left join [SpecHospPassthru] b

on a.GRZAccount = b.GRZAccount

--Step 4

/\* Allocate National Level Servcies Expenses to Province Level \*/

if object\_id('tempdb..##Step4') is not null drop table ##Step4

select

a.ExpenseID,

substring(cast(b.GRZUnit as varchar),3,2) as GRZUnit,

b.GRZProgramme,

sum(StepDownExpense\*Allocation) as HQProvinceExpense

into ##Step4

from ##Step3 a

inner join [dbo].[StepdownHQProvince] b

on a.GRZAccount = b.GRZAccount and a.service = b.service and a.ExpenseID = a.ExpenseID

Group by a.ExpenseID,substring(cast(b.GRZUnit as varchar),3,2),b.GRZProgramme

--Step5

/\* Combine Province Level Service Expenses with National Level Stepdown Expenses and Isolate Expenses to Stepdown to District Level\*/

if object\_id('tempdb..##Step5') is not null drop table ##Step5

select

a.ExpenseID ,

Head,

Province,

District,

b.Service,

b.GRZUnit,

b.GRZProgramme,

HQProvinceExpense,

b.PHOAccount,

(HQProvinceExpense + StepDownExpense)\* AllocationPercnt as AllocationExpenseDistrict

into ##Step5

from

(

select \*,'46' + cast(GRZUnit as varchar)+'40'+

cast(GRZProgramme as varchar) as PHOAccount

from ##Step4

) a

inner join [dbo].[StepdownProvinceDistrict] b

on a.PHOAccount = b.PHOAccount and a.ExpenseID = b.ExpenseID

inner join

##step3 c

on b.PHOAccount = c.GRZAccount and b.ExpenseID = c.ExpenseID

--Step 6

/\* Stepdown Province Level Servcie related expenses to Distrcit Level \*/

if object\_id('tempdb..##Step6') is not null drop table ##Step6

select ExpenseID ,GRZUnit,GRZProgramme,

cast(GRZUnit as varchar)+cast(GRZProgramme as varchar) as DHOAccount,

sum(AllocationExpenseDistrict) as DistrictAggregateSvcExpense

into ##Step6

from ##Step5

group by ExpenseID,GRZUnit,GRZProgramme

--Step7

/\* Combine District Level Servcie Expenses with amount stepped down from Province and allocate to facilities\*/

if object\_id('tempdb..##Step7') is not null drop table ##Step7

select

a.ExpenseID,

b.HMISCode,

Province,

District,

a.DHOAccount,

b.Service,

(DistrictAggregateSvcExpense+StepDownExpense) \* Allocation as FacPgmExpense

into ##Step7

from ##Step6 a

inner join [StepdownDistrictFacility] b

on a.DHOAccount = b.DHOAccount and a.ExpenseID = b.ExpenseID

inner join ##Step3 c

on a.DHOAccount = c.GRZAccount and a.ExpenseID = c.ExpenseID

left join [SpecHospPassthru] d

on b.HMISCode = d.HMISCode and c.GRZAccount = d.GRZAccount

--step8

/\* Compute Total Facility Service Related Expenses from Expenditures flowing to facilities or directly allocated \*/

if object\_id('tempdb..##Step8') is not null drop table ##Step8

select a.ExpenseID,a.HMISCode,FacSvcEXpense,FacDirSvcExpense,

case

when FacSvcEXpense is null then FacDirSvcExpense

when FacDirSvcExpense is null then FacSvcEXpense

else FacSvcEXpense+FacDirSvcExpense

end as TotalFacSvcExpense

into ##Step8

from

(

select ExpenseID,HMISCode,

sum(FacPgmExpense) as FacSvcEXpense

from ##step7

group by ExpenseID,HMISCode

)a

left join

(

select ExpenseID,a.HMISCode,sum(StepDownExpense) as FacDirSvcExpense

from ##Step3 a

left join

(

select distinct HMISCode from [dbo].[SpecHospPassthru]

)b

on a.HMISCode = b.HMISCode

group by ExpenseID,a.HMISCode

) b on a.HMISCode = b.HMISCode and a.ExpenseID = b.ExpenseID

--Step9

/\* Use facillty specific RAMS to allocate HIV expenses at faciltiy level to specific servcies and expense types \*/

if object\_id('tempdb..##Step9') is not null drop table ##Step9

select a.\*,

TotalFacSvcExpense \* CatergorySvcAllocation as TotalSvcExpense,

TotalFacSvcExpense

into ##Step9

from [dbo].[RAMFacility] a

inner join ##Step8 b

on a.[HMISCode] = b.[HMISCode] and a.ExpenseID = b.ExpenseID

truncate table FacilitySvcExpense

insert into FacilitySvcExpense

select \* from ##Step9 order by ExpenseID,HMISCode,CatergoryExpenseID,CatergoryServiceID

--Temporal fix while waiting from the HMISCode to be included in the DHIS Extract

/\* Link Expenditure results to DHIS output data and create results file for visualization \*/

update TransDHIS

set HMISCode = a.HMISCODE

from

(

select a.\*,b.FacilityName from [dbo].[FacilitySvcExpense] a

inner join [dbo].[Ref\_Facility] b

on a.HMISCode = b.HMISCode

) a

inner join TransDHIS b

on a.FacilityName = b.FacilityName and a.DistrictName = b.District

and a.ProvinceName = b.Province

Exec [CreateRpdData]