

SQL SERVER STORED PROCEDURE FOR IMAGE RETRIEVAL 19NOV2014

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```
USE MED_MAN_ELMDDB
GO
```

```
select
i.image_id,
i.image_file,
i.type,
i.image_number,
s.number_of_images
from
dbo.images i join dbo.studies s
on i.study_id = s.study_id
and i.patient_id = s.patient_id
where i.image_id = 'QNW-0101468129';
GO
CREATE PROCEDURE test1
@FirstImage varchar(14),
@NextImage varchar(14) OUTPUT,
@LastImage varchar(14) OUTPUT,
@Directory varchar(50) OUTPUT,
@NumberOfImages varchar(10) OUTPUT,
@Type varchar(10) OUTPUT
AS
declare @int1 int, @lastInt int, @DIR1a varchar, @DIR1b varchar, @DIR2a varchar, @DIR2b varchar,
@DIR3a varchar, @DIR3b varchar,
@ImageType varchar;
set @DIR1a = SUBSTRING(@FirstImage,5,1);
set @DIR1b = SUBSTRING(@FirstImage,6,1);
set @DIR2a = SUBSTRING(@FirstImage,7,1);
```

```
set @DIR2b = SUBSTRING(@FirstImage,8,1);
set @DIR3a = SUBSTRING(@FirstImage,9,1);
set @DIR3b = SUBSTRING(@FirstImage,10,1);
set @int1 = (SUBSTRING(@FirstImage,11,4) + 4);
set @NextImage = 'QNW-' + @DIR1a + @DIR1b + @DIR2a + @DIR2b + @DIR3a + @DIR3b + CAST(@int1 AS
VARCHAR(4));
SET @Directory = '/dataextracts/images/' + @DIR1a + @DIR1b + '/' + @DIR3a + @DIR3b + '/' + @DIR2a +
@DIR2b + '/';
----print 'Directory ' + @Directory;
----print 'Next Image ' + @NextImage;
select
@NumberOfImages = s.number_of_images,
@Type = i.type
from
dbo.images i join dbo.studies s
on i.study_id = s.study_id
and i.patient_id = s.patient_id
where i.image_id = @FirstImage

If @NumberOfImages IS NULL begin
set @NumberOfImages = 'No Image'
set @NextImage = 'No Image Found';
set @LastImage = 'No Image Found';
end
else
If CAST(@NumberOfImages AS INT) = 1 begin
set @NextImage = @FirstImage;
set @LastImage = @FirstImage;
end
else
If CAST(@NumberOfImages AS INT) = 2 begin
set @LastImage = @NextImage;
end
else
If CAST(@NumberOfImages AS INT) > 2 begin
set @lastInt = @int1 + CAST(@NumberOfImages AS INT) - 2;
set @LastImage = 'QNW-' + @DIR1a + @DIR1b + @DIR2a + @DIR2b + @DIR3a + @DIR3b + CAST(@lastInt AS
VARCHAR(4));
end

print 'First Image ' + @FirstImage;
print 'Type of Image ' + @Type;
```

```
print 'Number of Images ' + @NumberOfImages;
print 'Next Image ' + @NextImage;
print 'Last Image ' + @LastImage;
print 'Directory ' + @Directory;
GO

DECLARE @Next varchar(30), @Last varchar(30), @Directory varchar(50), @NumberOfImages varchar(10);
EXEC test1 'QNW-0101468129', @Next OUTPUT, @Last OUTPUT, @Directory OUTPUT, @NumberOfImages OUTPUT
-----PRINT @Next + 'and ' + @Directory
GO

DECLARE @Next varchar(30), @Last varchar(30), @Directory varchar(50), @NumberOfImages varchar(10),
@Type varchar(10);
EXEC test1 'QNW-0101468129', @Next OUTPUT, @Last OUTPUT, @Directory OUTPUT, @NumberOfImages OUTPUT,
@Type OUTPUT
----- PRINT '***** ' + @Next + ' and ' + @Last + ' and ' + @Directory + ' and ' +
@NumberOfImages + ' and ' + @Type
GO
---- drop procedure test1
/***** end of program *****/
```

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