

dynamic sp build

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I want to build a "GetbyPK" stored procedure by passing in a table_name. I use the system tables to get the columns that make up the table for the select part of the query... and the columns that make up the PK that I use for the where clause.

I currently build the script in a temp table that hold the statements for the new stored procedure. Then I just select all the rows, copy the result set and paste that into a new query window and my sp is created.

Here is a sample

```
CREATE PROCEDURE dbo.x_Build_GetByPK @intablename varchar(50) AS
```

```
truncate table sql_text;
```

```
insert into sql_text(Line_text)
values ('IF EXISTS (SELECT name ');
```

```
insert into sql_text(Line_text)
values ('FROM sysobjects ');
```

```
insert into sql_text(Line_text)
select 'WHERE name = "sp_'+name+'_GetbyPK"'
from sysobjects
where name = @intablename
and type = 'U';
```

```
insert into sql_text(Line_text)
values ('AND type = "P");
```

```
insert into sql_text(Line_text)
values ('DROP PROCEDURE ');
```

```
insert into sql_text(Line_text)
select 'sp_'+name+'_GetbyPK'
from sysobjects
where name = @intablename
```

```

and type = 'U';

insert into sql_text(Line_text)
values ('GO');

insert into sql_text(Line_text)
values ('Create procedure ');

-- Get table_name for SP title

insert into sql_text(Line_text)
select 'sp_'+name+'_GetbyPK'
from sysobjects
where name = @intablename
and type = 'U';

-- get the PK columns for input parameters

insert into sql_text(Line_text)
select '@'+c.name+' '+t.name+'('+ltrim(str(c.length))+'),'
from sysobjects t0,
     sysobjects i0,
     syscolumns c,
     systypes t,
     sysindexes i,
     sysindexkeys k
where t0.id =i0.parent_obj
and i0.name = i.name
and i.indid = k.indid
and t0.id = k.id
and t0.id = c.id
and k.colid = c.colid
and c.xtype = t.xtype
and i0.xtype = 'PK'
and t0.name = @intablename;

-- Trim the last ,
update sql_text
set line_text = replace(line_text,',','')
where line_no = (select max(line_no) from sql_text);

Insert into sql_text (line_text)
values ('AS');

Insert into sql_text (line_text)
values ('Select');

-- get column names

Insert into sql_text (line_text)
select

```

```

c.name+',
  from sysobjects t, syscolumns c
where t.id = c.id
and t.type = 'U'
and t.name = @intablename
order by c.colorder;

-- Trim the last ,
update sql_text
set line_text = replace(line_text,',','')
where line_no = (select max(line_no) from sql_text);

Insert into sql_text (line_text)
values ('From');

-- Get table_name for SP title

insert into sql_text(Line_text)
select name
from sysobjects
where name = @intablename
and type = 'U';

Insert into sql_text (line_text)
values ('Where');

-- build the PK criteria

insert into sql_text(Line_text)
select c.name+' = @'+c.name+' and'
from sysobjects t0,
     sysobjects i0,
     syscolumns c,
     systypes t,
     sysindexes i,
     sysindexkeys k
where t0.id =i0.parent_obj
and i0.name = i.name
and i.indid = k.indid
and t0.id = k.id
and t0.id = c.id
and k.colid = c.colid
and c.xtype = t.xtype
and i0.xtype = 'PK'
and t0.name = @intablename;

-- Trim the last 'and'
update sql_text
set line_text = replace(line_text,'and','')
where line_no = (select max(line_no) from sql_text);

```

```
Insert into sql_text (line_text)
values ('');
```

```
Insert into sql_text (line_text)
values ('go');
```

Example

```
Step 1 --- Build the create sp script in temp table
use pubs
exec x_Build_GetByPK Authors
```

Step 2 --- now select all the rows that are needed to create my new sp from my temp table sql_text

```
select line_text from sql_text order by line_no
```

Step 3 ----- cut and paste the results into a new query window and run ...to create my new sp
"sp_Authors_GetbyPK"

Now for my question... how do I fully automate this.....

I want to remove the manual steps Step 2 and Step 3 and still create the desired sp

thanks !!!