

postgresql 函数运用

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原文链接: <https://ld246.com/article/1548231866530>

来源网站: [链滴](#)

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json_build_object函数构建响应对象

```
select json_build_object('hospdevice', hospdevice)
from(
select json_agg(row_to_json(t)) as hospdevice from
(select hospcode, json_agg(json_build_object(devmode, devmode, 'devsn', devsn)) as device
from aimb.t_mb_hosp_device
```

group by hospcode

)t

) a

- [x]

批量插入操作

```
insert into aimb.t_mb_hosp_contract_device as c (
hospcode,
ssid,
contractserialid,
devtype,
devtypename,
devmanuid,
devmanuname,
devmode,
devsn,
devmemo,
createdtime,
modifiedtime
)
```

```
select contract_id, json_extract_path_text(devinfo, 'devtype') as devtype, to_timestamp(json_ex
ract_path_text(devinfo, 'createdtime'), 'yyyy-MM-dd HH24:mi:ss') as createdtime from (
```

```
select 'c111' as contract_id, json_array_elements_text('{"devtype": "1", "devtypename": "1", "d
vmanuid": "1", "devmanuname": "1", "devmode": "1", "devsn": "1", "devmemo": "1", "createdti
e": "2019-01-21 10:22:15", "modifiedtime": "2019-01-21 10:22:15"}, {"devtype": "1", "devtypena
e": "1", "devmanuid": "1", "devmanuname": "1", "devmode": "1", "devsn": "1", "devmemo": "1",
createdtime": "2019-01-21 10:22:15", "modifiedtime": "2019-01-21 10:22:15"}')::json as devinfo
) t
```

批量更新

```
update aimb.t_mb_hosp_device SET usestatus = '1' where ('[{"devsn":"' || devsn || '", "devmode":"' || devmode || '", "devmanuid":"' || devmanuid || '", "devtype":"' || devtype || '"}]':::jsonb <@
```

```
(select array_to_json(array_agg(row_to_json(t1)))::jsonb as devsn from (
select
json_extract_path_text(devinfo, 'devsn') as devsn ,
json_extract_path_text(devinfo, 'devtype') as devtype,
json_extract_path_text(devinfo, 'devmanuid') as devmanuid,
json_extract_path_text(devinfo, 'devmode') as devmode
from (
select json_array_elements_text('{"devtype": "00000", "devtypename": "1", "devmanuid": "0001", "devmanuname": "1", "devmode": "Z3518A", "devsn": "12", "devmemo": "1", "createdtime": "2019-01-21 10:22:15", "modifiedtime": "2019-01-21 10:22:15"}, {"devtype": "00000", "devtypename": "1", "devmanuid": "00001", "devmanuname": "1", "devmode": "Z3518A", "devsn": "13", "devmemo": "1", "createdtime": "2019-01-21 10:22:15", "modifiedtime": "2019-01-21 10:22:15"}')::json as devinfo
) t ) t1 )
```

上面这个语句地方

```
--之后修改医院设备库存状态 userstatus 根据设备序列号devsn更新
update aimb.t_mb_hosp_device SET usestatus = '1' where ('[{"devsn":"' || devsn || '", "devmode":"' || devmode || '", "devmanuid":"' || devmanuid || '", "devtype":"' || devtype || '"}]':::jsonb <@
(select array_to_json(array_agg(row_to_json(t1)))::jsonb as devsn from (
select
json_extract_path_text(devinfo, 'devsn')::json as devsn ,
json_extract_path_text(devinfo, 'devtype') as devtype,
json_extract_path_text(devinfo, 'devmanuid') as devmanuid,
json_extract_path_text(devinfo, 'devmode') as devmode
from (
select json_array_elements_text('{"devtype": "00000", "devtypename": "1", "devmanuid": "0001", "devmanuname": "1", "devmode": "Z3518A", "devsn": "12", "devmemo": "1", "createdtime": "2019-01-21 10:22:15", "modifiedtime": "2019-01-21 10:22:15"}, {"devtype": "00000", "devtypename": "1", "devmanuid": "00001", "devmanuname": "1", "devmode": "Z3518A", "devsn": "13", "devmemo": "1", "createdtime": "2019-01-21 10:22:15", "modifiedtime": "2019-01-21 10:22:15"}')::json as devinfo
) t ) t1 )
```

```
UPDATE aimb.t_mb_hosp_device SET usestatus = '1'
WHERE hospcode = in_hospcode
AND devtype = in_devtype
AND devmanuid = in_devmanuid
AND devmode = in_devmode
AND devsn = in_devsn;
```

```
--输出
retcode := 0;
```

这个地方一定不能在进行json转换，否则报错

```
update aimb.t_mb_hosp_device SET usestatus = '1' where ('[{"devsn":"' || devsn || '"}]':::jsonb <@
(select array_to_json(array_agg(row_to_json(t1)))::jsonb as devsn from (
select
json_extract_path_text(devinfo, 'devsn')::json as devsn from (
select json_array_elements_text('{"devtype": "1", "devtypename": "1", "devmanuid": "1", "devmanuname": "1", "devmode": "1", "devsn": "12", "devmemo": "1", "createdtime": "2019-01-21 10:22:15", "modifiedtime": "2019-01-21 10:22:15"}, {"devtype": "1", "devtypename": "1", "devmanuid": "1", "devmanuname": "1", "devmode": "1", "devsn": "13", "devmemo": "1", "createdtime": "2019-01-21 10:22:15", "modifiedtime": "2019-01-21 10:22:15"}')::json as devinfo
) t ) t1 )
```

另外一种写法（这种写法存在问题） json_to_recordset

```
select * from json_to_recordset(  
select array_to_json(array_agg(row_to_json(t1)))::jsonb as devsn from (  
select  
json_extract_path_text(devinfo, 'devsn')::json as devsn from (  
select json_array_elements_text('{"devtype": "1", "devtypename": "1", "devmanuid": "1", "dev  
anuname": "1", "devmode": "1", "devsn": "1", "devmemo": "1", "createdtime": "2019-01-21 10:2  
:15", "modifiedtime": "2019-01-21 10:22:15"}, {"devtype": "1", "devtypename": "1", "devmanuid"  
"1", "devmanuname": "1", "devmode": "1", "devsn": "1", "devmemo": "1", "createdtime": "2019  
01-21 10:22:15", "modifiedtime": "2019-01-21 10:22:15"}')::json as devinfo  
) t ) t1 as  
) as devsn(a varchar(64))
```