

DB2 再帰で区切りリストを作成

[DB2][Database][DB2 再帰]

- WITH 句を使った再帰的なクエリで実現
- UNION ALL の上側は、各従業員に対する情報を返す
- UNION ALL の下側で再帰が発生
- WITH 句内の WHERE 句で再帰条件を指定
- x.len+1 は評価された従業員数、部署の人数と比較し必要以上の再帰を抑制

```
with x (workdept, cnt, list, empno, len) as (  
  select workdept, count(*) over(partition by workdept), cast(lastname as varchar(200)), empno, 1  
  from employee  
  union all  
  select x.workdept, x.cnt, x.list || ' , ' || e.lastname, e.empno, x.len+1  
  from employee e, x  
  where e.workdept = x.workdept  
  and e.empno > x.empno  
)  
select workdept, list  
from x  
where len = cnt  
order by workdept
```

結果

WORKDEPT	LIST
A00	HAAS , LUCCHESSI , O'CONNELL , HEMMINGER , ORLANDO
B01	THOMPSON
C01	KWAN , QUINTANA , NICHOLLS , NATZ
D11	STERN , ADAMSON , PIANKA , YOSHIMURA , SCOUTTEN , WALKER , BROWN , JONES , LUTZ , YAMAMOTO
, JOHN	
D21	PULASKI , JEFFERSON , MARINO , SMITH , JOHNSON , PEREZ , MONTEVERDE
E01	GEYER
E11	HENDERSON , SCHNEIDER , PARKER , SMITH , SETRIGHT , SCHWARTZ , SPRINGER
E21	SPENSER , MEHTA , LEE , GOUNOT , WONG , ALONZO