4차\_이름\_1.docx (문서이름)

1. 아래와 같이 EMP Table을 사용하여 부서별 MAX SAL,MIN SAL,AVG SAL(소수점 절삭),건수 그리고 전체 MAX SAL,MIN SAL,AVG SAL(소수점 절삭),건수를 구하시요.

( 1개는 Inline View를 통해 작성하고 1개는 Analytic Function을 사용하여 EMP Table 한번만 조회하도록 작성)

**inline View 사용**

select e1.EMPNO,

e1.ENAME,

e1.DEPTNO,

e1.SAL,

e3.MAX\_DEPT\_SAL,

e3.MIN\_DEPT\_SAL,

e3.AVG\_DEPT\_SAL,

e3.COUNT\_DEPT,

e2.MAX\_SAL,

e2.MIN\_SAL,

e2.AVG\_SAL,

e2.COUNT\_ALL

from EMP e1,

(select MAX(e2.SAL)as MAX\_SAL,

MIN(e2.SAL)as MIN\_SAL,

count(e2.DEPTNO)as COUNT\_ALL,

round(avg(e2.SAL))as AVG\_SAL

from EMP e2)e2,

(select e3.DEPTNO,

max(e3.SAL)as MAX\_DEPT\_SAL,

MIN(e3.SAL)as MIN\_DEPT\_SAL,

count(e3.DEPTNO)as COUNT\_DEPT,

round(avg(e3.SAL))as AVG\_DEPT\_SAL

from EMP e3

group by e3.DEPTNO)e3

where e1.DEPTNO=e3.DEPTNO

order by e1.DEPTNO

**Analytic Function 사용**

select EMPNO,

ENAME,

DEPTNO,

SAL,

max(sal)over(partition by DEPTNO)as MAX\_DEPT\_SAL,

min(sal)over(partition by DEPTNO)as MIN\_DEPT\_SAL,

round(avg(sal)over(partition by DEPTNO))as AVG\_DEPT\_SAL,

count(DEPTNO)over(partition by DEPTNO)as COUNT\_DEPT,

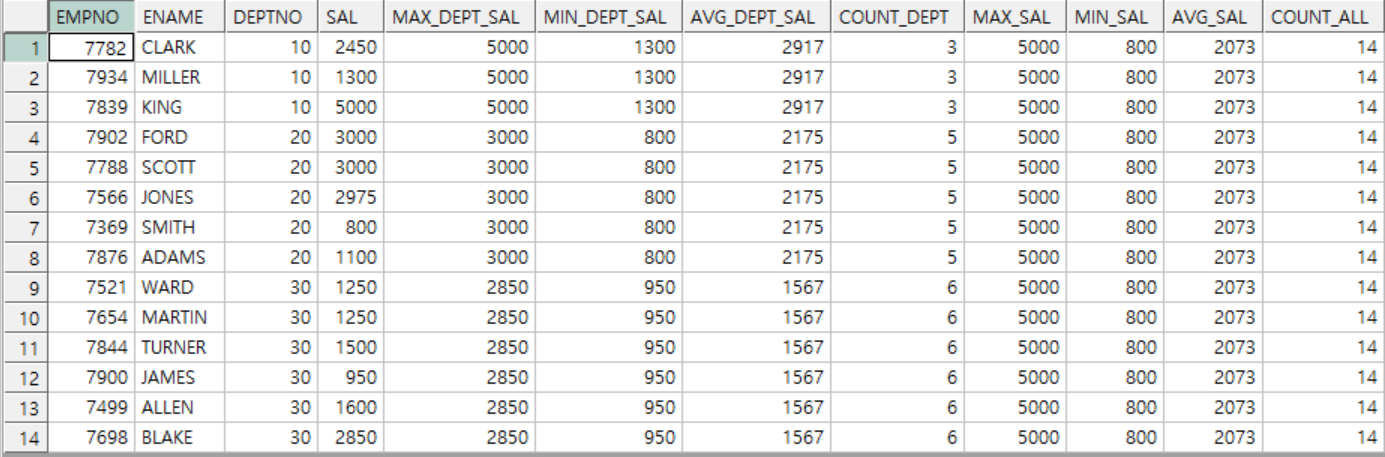
max(sal)over()MAX\_SAL,

min(sal)over()MIN\_SLA,

round(avg(sal)over())AVG\_SAL,

count(DEPTNO)over()COUNT\_ALL

from EMP;



2. 아래와 같이 EMP Table을 사용하여 부서별 SAL,HIREDATE 순 Numbering, 누적 SAL을 Analytic Function을 사용하여 구하시요.

select EMPNO,

ENAME,

DEPTNO,

SAL,

HIREDATE,

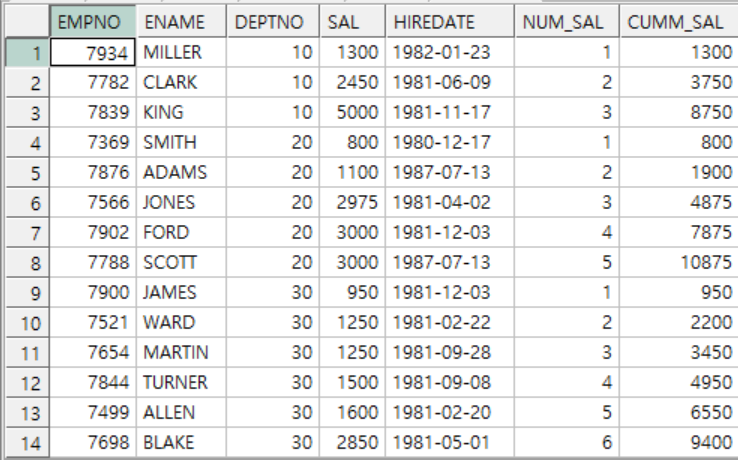
row\_number()over( partition by DEPTNO

order by SAL, HIREDATE)NUM\_SAL ,

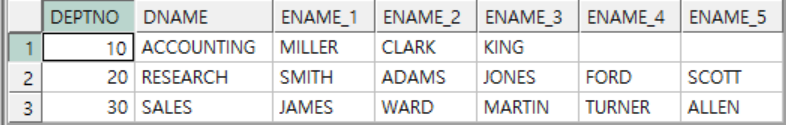
sum(SAL)over(partition by DEPTNO

order by SAL, HIREDATE)CUMM\_SAL

from EMP;



3. 아래와 같이 2번 SQL을 참조하여 부서별로 SAL,HIREDATE 순으로 ENAME을 나열하는 SQL을 작성하시요. (ENAME\_6 까지)



select b.DEPTNO,

b.DNAME,

ENAME\_1,

ENAME\_2,

ENAME\_3,

ENAME\_4,

ENAME\_5,

ENAME\_6

from (select a1.SAL,

a1.HIREDATE,

a1.DEPTNO,

a1.ENAME,

LEAD(a1.ENAME, 0)over(partition by a1.DEPTNO, b1.DEPTNO

order by a1.SAL, a1.HIREDATE)ENAME\_1,

LEAD(a1.ENAME, 1)over(partition by a1.DEPTNO, b1.DEPTNO

order by a1.SAL, a1.HIREDATE)ENAME\_2,

LEAD(a1.ENAME, 2)over(partition by a1.DEPTNO, b1.DEPTNO

order by a1.SAL, a1.HIREDATE)ENAME\_3,

LEAD(a1.ENAME, 3)over(partition by a1.DEPTNO, b1.DEPTNO

order by a1.SAL, a1.HIREDATE)ENAME\_4,

LEAD(a1.ENAME, 4)over(partition by a1.DEPTNO, b1.DEPTNO

order by a1.SAL, a1.HIREDATE)ENAME\_5,

LEAD(a1.ENAME, 5)over(partition by a1.DEPTNO, b1.DEPTNO

order by a1.SAL, a1.HIREDATE)ENAME\_6,

row\_number()over(partition by a1.DEPTNO, b1.DEPTNO

order by a1.SAL, a1.HIREDATE)NUM\_SAL

from EMP a1,

DEPT b1

where a1.DEPTNO=b1.DEPTNO)a,

DEPT b

where a.DEPTNO=b.DEPTNO and a.NUM\_SAL = '1'

// 순위별 매칭 필요

select b.DEPTNO,

b.DNAME,

case

when a.num\_sal = '1' then a.ename

end as ename\_1,

case

when a.num\_sal = '2' then a.ename

end as ename\_2,

case

when a.num\_sal = '3' then a.ename

end as ename\_3,

case

when a.num\_sal = '4' then a.ename

end as ename\_4,

case

when a.num\_sal = '5' then a.ename

end as ename\_5,

case

when a.num\_sal = '6' then a.ename

end as ename\_6

from (select a1.DEPTNO,

a1.ENAME,

row\_number()over( partition by a1.DEPTNO

order by a1.SAL, a1.HIREDATE)NUM\_SAL

from EMP a1)a ,

DEPT b

where b.deptno=a.deptno ;

//매칭은 하였으나 deptno 와 1:1 매칭함 –컬럼 개수 14개 –3개가 나와야함