DATA BASE objects

views

sequence

view:

Logical table,which is partitioned

dead lock

tableA

user1 user2

write read

SQL> grant create view to scott;

Grant succeeded.

SQL> connect scott/tiger;

Creating view

create VIEW <vname> as SELECT statement;

create a view with empno,ename,job,sal of those emps who works as clerk

create view cview as select empno,ename,job,sal from emp where job='CLERK';

View created.

Working with view

same as table,we can do all transactions,including insert,delete and update

note: MANDATORY TO have " primary key column"

insert into dview values('IT','HYD')

\*

ERROR at line 1:

ORA-01400: cannot insert NULL into ("SCOTT"."DEPT"."DEPTNO")

to view the data of the view

select \* from clerk\_view;

to insert into the view

insert into clerk\_view values(333,'ABC','CLERK',5000);

SELECT \* FROM CLERK\_VIEW;

SELECT \* FROM EMP;

TO DELETE A Record from view

delete from clerk\_view where empno=333;

TO DROP A VIEW

DROP VIEW <VNAME>;

EX: drop view clerk\_view;

COMPLEX VIEW: 2 or more tables together

CREATE VIEW E\_MGR AS SELECT ENAME,JOB,SAL,DNAME FROM EMP E ,DEPT D WHERE E.DEPTNO=D.DEPTNO AND JOB='MANAGER';

SEQUENCE

to generate numbers without manual representation

sequences are independant

CREATE sequence <name> start with <num>

minvalue <n>

maxvalue <n>

increment by <n>

CYCLE / NOCYCLE

cache/nocache;

i=1;

MIN 1000 for(i=5; i<=10; i++)

MAX 10000

START WITH 5000

INCREMENT BY 1000

CYCLE

5000

6000

7000

8000

9000

10000

stop when nocycle

1000

2000

no sequence from 1000 to 1010

increment by 3

starting from 1005 cycle

19ECE001

BRANCHCODE TYPE 5DIGIT

1005

1008

1000

1003 1006 1009

1000

to find the current value of the sequence

name . currval

to find the next value of the sequence

name . nextval

ex: create sequence nos start with 50 minvalue 10 maxvalue 99

increment by 10 CYCLE nocache;

testing purpose creating dummy table

create table a(sno number(5));

insert into a values(no.nextval);

50

60

70

80

90

10

20

30

40

50

60

insert into DEPT values(nos.nextval,'&DNAME','&LOC');

select \* from a;

SQL> SELECT \* FROM A;

SNO

----------

1000

1002

1004

1006

1008

1010

1000

1002

1004

9 rows selected.

SQL> select nos.currval from dual;

CURRVAL

----------

1009

select nos.nextval from dual;

NEXTVAL

--------

1000

2023

20221d0XXXX

202111XXXXX

23ECE1001

23||'ECE'||NO.NEXTVAL