REPORT



과 목 : 데이터베이스이론및실습

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담당교수: 권기현

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-- 13-1) SCOTT 계정에서 사용 가능한 데이터 사전 살펴보기(DICT)

SELECT * FROM DICT;

↑ TABLE_NAME	♦ COMMENTS
1 CDB_KGLLOCK	in all containers
2 CDB_LOCK	in all containers
3 CDB_LOCK_INTERNAL	in all containers
4 CDB_DML_LOCKS	in all containers
5 CDB_DDL_LOCKS	in all containers
6 CDB_WAITERS	in all containers
7 CDB_BLOCKERS	in all containers
8 USER_TABLES	Description of the user's own relational tables
9 USER_OBJECT_TABLES	Description of the user's own object tables
10 USER_ALL_TABLES	Description of all object and relational tables owned by the user's
11 ALL_TABLES	Description of relational tables accessible to the user
12 ALL_OBJECT_TABLES	Description of all object tables accessible to the user
13 ALL_ALL_TABLES	Description of all object and relational tables accessible to the user
14 DBA_TABLES	Description of all relational tables in the database
15 CDB_TABLES	Description of all relational tables in the database in all containers
16 DBA_OBJECT_TABLES	Description of all object tables in the database
17 CDB_OBJECT_TABLES	Description of all object tables in the database in all containers
18 DBA_ALL_TABLES	Description of all object and relational tables in the database
19 CDB_ALL_TABLES	Description of all object and relational tables in the database in all containers
20 CDB_PROPERTIES	Permanent database properties in all containers
21 USER_CATALOG	Tables, Views, Synonyms and Sequences owned by the user
22 ALL_CATALOG	All tables, views, synonyms, sequences accessible to the user
23 DBA_CATALOG	All database Tables, Views, Synonyms, Sequences

-- 13-2) SCOTT 계정에서 사용 가능한 데이터 사전 살펴보기(DICTIONARY 사용)

SELECT * FROM DICTIONARY;

↑ TABLE_NAME	♦ COMMENTS
1 CDB_KGLLOCK	in all containers
2 CDB_LOCK	in all containers
3 CDB_LOCK_INTERNAL	in all containers
4 CDB_DML_LOCKS	in all containers
5 CDB_DDL_LOCKS	in all containers
6 CDB_WAITERS	in all containers
7 CDB_BLOCKERS	in all containers
8 USER_TABLES	Description of the user's own relational tables
9 USER_OBJECT_TABLES	Description of the user's own object tables
10 USER_ALL_TABLES	Description of all object and relational tables owned by the user's
11 ALL_TABLES	Description of relational tables accessible to the user
12 ALL_OBJECT_TABLES	Description of all object tables accessible to the user
13 ALL_ALL_TABLES	Description of all object and relational tables accessible to the user
14 DBA_TABLES	Description of all relational tables in the database
15 CDB_TABLES	Description of all relational tables in the database in all containers
16 DBA_OBJECT_TABLES	Description of all object tables in the database
17 CDB_OBJECT_TABLES	Description of all object tables in the database in all containers
18 DBA_ALL_TABLES	Description of all object and relational tables in the database
19 CDB_ALL_TABLES	Description of all object and relational tables in the database in all containers
20 CDB_PROPERTIES	Permanent database properties in all containers
21 USER_CATALOG	Tables, Views, Synonyms and Sequences owned by the user
22 ALL_CATALOG	All tables, views, synonyms, sequences accessible to the user
23 DBA_CATALOG	All database Tables, Views, Synonyms, Sequences
24 CDB_CATALOG	All database Tables, Views, Synonyms, Sequences in all containers
25 USER_OBJECTS	Objects owned by the user
26 HSER ORIECTS AF	Objects owned by the user

-- 13-3) SCOTT 계정이 가지고 있는 객체 정보 살펴보기(USER_ 접두어 사용) SELECT TABLE_NAME FROM USER_TABLES;

	↑ TABLE_NAME
1	EMP
2	DEPT
3	BONUS
4	SALGRADE
5	DUMMY

-- 13-4) SCOTT 계정이 사용할 수 있는 객체 정보 살펴보기(ALL_ 접두어 사용)
SELECT OWNER, TABLE_NAME FROM ALL_TABLES;

		↑ TABLE_NAME
1	SYS	ICOL\$
2	SYS	COL\$
3	SYS	IND\$
4	SYS	TAB\$
5	SYS	CLU\$
6	SYS	LOB\$
7	SYS	COLTYPE\$
8	SYS	SUBCOLTYPE\$
9	SYS	NTAB\$
10	SYS	REFCON\$
11	SYS	OPQTYPE\$
12	SYS	ICOLDEP\$
13	SYS	VIEWTRCOL\$
14	SYS	LIBRARY\$
15	SYS	ASSEMBLY\$
16	SYS	ATTRCOL\$
17	SYS	TYPE_MISC\$
18	SYS	TS\$
19	SYS	FET\$
20	SYS	SEG\$
21	SYS	UET\$
22	SYS	USER\$
23	SYS	TSQ\$
24	SYS	UNDO\$
25	SYS	FILE\$
26	SYS	OBJ\$
27	SYS	PROXY_DATA\$
28	SYS	PROXY_ROLE_DATA\$

-- 13-5) SCOTT 계정으로 DBA_ 접두어 사용하기

SELECT * FROM DBA_TABLES;

	♦ OW 🖓	↑ TABLE_NAME	↑ TABLESPACE_NAME		♦ IOT_NAME	♦ STATUS		PCT_USED	INI_TRANS	MAX_TRANS	INITIAL_EXTENT
1	SYS	TS\$	SYSTEM	C_TS#	(null)	VALID	0	0	0	0	65536
2	SYS	ICOL\$	SYSTEM	C_0BJ#	(null)	VALID	0	0	0	0	139264
3	SYS	USER\$	SYSTEM	C_USER#	(null)	VALID	0	0	0	0	65536
4	SYS	CDEF\$	SYSTEM	C_COBJ#	(null)	VALID	0	0	0	0	57344
5	SYS	CCOL\$	SYSTEM	C_COBJ#	(null)	VALID	0	0	0	0	57344
6	SYS	SEG\$	SYSTEM	C_FILE#_BLOCK#	(null)	VALID	0	0	0	0	24576
7	SYS	PROXY_DATA\$	SYSTEM	(null)	(null)	VALID	10	40	1	255	65536
8	SYS	COL\$	SYSTEM	C_0BJ#	(null)	VALID	0	0	0	0	139264
9	SYS	OBJ\$	SYSTEM	(null)	(null)	VALID	10	40	1	255	16384
10	SYS	IND\$	SYSTEM	C_0BJ#	(null)	VALID	0	0	0	0	139264
11	SYS	BOOTSTRAP\$	SYSTEM	(null)	(null)	VALID	10	40	1	255	57344
12	SYS	UNDO\$	SYSTEM	(null)	(null)	VALID	10	40	1	255	65536
13	SYS	TAB\$	SYSTEM	C_0BJ#	(null)	VALID	0	0	0	0	139264
14	SYS	CON\$	SYSTEM	(null)	(null)	VALID	10	40	1	255	65536
15	SYS	CLU\$	SYSTEM	C_0BJ#	(null)	VALID	0	0	0	0	139264
16	SYS	UET\$	SYSTEM	C_FILE#_BLOCK#	(null)	VALID	0	0	0	0	24576
17	SYS	FET\$	SYSTEM	C_TS#	(null)	VALID	0	0	0	0	65536
18	SYS	FILE\$	SYSTEM	(null)	(null)	VALID	10	40	1	255	65536
19	SYS	PROXY_ROLE_DATA\$	SYSTEM	(null)	(null)	VALID	10	40	1	255	65536
20	SYS	OBJERROR\$	SYSTEM	(null)	(null)	VALID	10	40	1	255	65536
21	SYS	OBJAUTH\$	SYSTEM	(null)	(null)	VALID	10	40	1	255	65536
22	SYS	HISTGRM\$	SYSTEM	C_OBJ#_INTCOL#	(null)	VALID	0	0	0	0	2097152
23	SYS	HIST_HEAD\$	SYSTEM	(null)	(null)	VALID	10	40	1	255	360448
24	SYS	FIXED_OBJ\$	SYSTEM	(null)	(null)	VALID	10	40	1	255	65536

-- 13-6) SYSTEM 계정으로 DBA_접두어 사용하기 (SYSTEM 계정으로 접속했을 때)

SELECT * FROM DBA_TABLES;

	↑ TABLE_NAME	↑ TABLESPACE_NAME				♦ PCT_FREE	PCT_USED	INI_TRANS	MAX_TRANS	♦ INITIAL_EXTENT	NEXT_EXTENT
1 SYS	TS\$	SYSTEM	C_TS#	(null)	VALID	0	0	0	0	65536	1048576
2 SYS	ICOL\$	SYSTEM	C_0BJ#	(null)	VALID	0	0	0	0	139264	204800
3 SYS	USER\$	SYSTEM	C_USER#	(null)	VALID	0	0	0	0	65536	1048576
4 SYS	CDEF\$	SYSTEM	C_COBJ#	(null)	VALID	0	0	0	0	57344	1048576
5 SYS	CCOL\$	SYSTEM	C_COBJ#	(null)	VALID	0	0	0	0	57344	1048576
6 SYS	SEG\$	SYSTEM	C_FILE#_BLOCK#	(null)	VALID	0	0	0	0	24576	1048576
7 SYS	PROXY_DATA\$	SYSTEM	(null)	(null)	VALID	10	40	1	255	65536	1048576
8 SYS	COL\$	SYSTEM	C_0BJ#	(null)	VALID	0	0	0	0	139264	204800
9 sys	OBJ\$	SYSTEM	(null)	(null)	VALID	10	40	1	255	16384	106496
10 SYS	IND\$	SYSTEM	C_0BJ#	(null)	VALID	0	0	0	0	139264	204800
11 SYS	B00TSTRAP\$	SYSTEM	(null)	(null)	VALID	10	40	1	255	57344	1048576
12 SYS	UNDO\$	SYSTEM	(null)	(null)	VALID	10	40	1	255	65536	1048576
13 SYS	TAB\$	SYSTEM	C_0BJ#	(null)	VALID	0	0	0	0	139264	204800
14 SYS	CON\$	SYSTEM	(null)	(null)	VALID	10	40	1	255	65536	1048576
15 SYS	CLU\$	SYSTEM	C_0BJ#	(null)	VALID	0	0	0	0	139264	204800
16 SYS	UET\$	SYSTEM	C_FILE#_BLOCK#	(null)	VALID	0	0	0	0	24576	1048576
17 SYS	FET\$	SYSTEM	C_TS#	(null)	VALID	0	0	0	0	65536	1048576
18 SYS	FILE\$	SYSTEM	(null)	(null)	VALID	10	40	1	255	65536	1048576
19 SYS	PROXY_ROLE_DATA\$	SYSTEM	(null)	(null)	VALID	10	40	1	255	65536	1048576
20 SYS	OBJERROR\$	SYSTEM	(null)	(null)	VALID	10	40	1	255	65536	1048576
21 SYS	OBJAUTH\$	SYSTEM	(null)	(null)	VALID	10	40	1	255	65536	1048576
22 SYS	HISTGRM\$	SYSTEM	C_OBJ#_INTCOL#	(null)	VALID	0	0	0	0	2097152	204800
23 SYS	HIST_HEAD\$	SYSTEM	(null)	(null)	VALID	10	40	1	255	360448	106496
24 SYS	FIXED_OBJ\$	SYSTEM	(null)	(null)	VALID	10	40	1	255	65536	1048576
25 SYS	TAB_STATS\$	SYSTEM	(null)	(null)	VALID	10	40	1	255	32768	106496
26 SYS	IND_STATS\$	SYSTEM	(null)	(null)	VALID	10	40	1	255	32768	106496
27 SYS	OBJECT_USAGE	SYSTEM	(null)	(null)	VALID	10	50	30	255	65536	1048576
28 SYS	PARTOBJ\$	SYSTEM	(null)	(null)	VALID	10	40	1	255	65536	1048576

-- 13-7) DBA_USERS를 사용하여 사용자 정보를 알아보기(SYSTEM 계정으로 접속했을 때)

SELECT * FROM DBA_USERS WHERE USERNAME = 'SCOTT';

	USER_ID PASSWORD			⊕ EXPIRY_DATE		↑ TEMPORARY_TABLESPACE		CREATED :
1 SCOTT	110 (null)	OPEN	(null)	(null)	USERS	TEMP	TEMP	2024/03/12 [

-- 13-8) SCOTT 계정이 소유한 인덱스 정보 알아보기(SCOTT 계정일 때)

SELECT * FROM USER_INDEXES;

♦ INDEX_...♦ INDEX_...♦ TABLE_...♦ TABLE_...♦ TABLE_...♦ UNIQU... ♦ COMP... ♦ PREFIX...♦ TABLE... ♦ INI_TR...

-- 13-9) SCOTT 계정이 소유한 인덱스 컬럼 정보 알아보기(SCOTT 계정일 때)

SELECT * FROM USER_IND_COLUMNS;

♦ INDEX_... ♦ TABLE_... ♦ COLU... ♦ COLU... ♦ COLU... ♦ CHAR_... ♦ DESCE... ♦ COLLA...

-- 13-10) EMP 테이블의 SAL 열에 인덱스를 생성하기

CREATE INDEX IDX_EMP_SAL ON EMP(SAL);

Index IDX_EMP_SAL이(가) 생성되었습니다.

-- 13-11) 생성된 인덱스 살펴보기(SUER_IND_COLUMNS 사용)

SELECT * FROM USER_IND_COLUMNS;

\$\frac{\psi \\ \text{INDEX_NAME}}{\psi \\ \text{INDEX_NAME}} \psi \text{CABLE_NAME} \psi \text{COLUMN_NAME} \psi \text{COLUMN_POSITION} \psi \text{COLUMN_LENGTH} \psi \text{CHAR_LENGTH} \psi \text{DESCEND} \psi \text{COLLATED_COLUMN_ID} \\ \text{1 \text{IDX EMP SAL}} \\ \text{1 \text{EMP SAL}} \\ \text{EMP} \\ \text{SAL} \\ \text{CMP} \\ \text{SAL} \\ \text{CMP} \\ \text{SAL} \\ \text{COLUMN_NAME} \end{tikes \text{COLUMN_POSITION}} \psi \text{COLUMN_LENGTH} \psi \text{COLUMN_LENGTH} \psi \text{DESCEND} \psi \text{COLUMN_LENGTH} \ps

-- 13-12) 인덱스 삭제하기

DROP INDEX IDX_EMP_SAL;

Index IDX_EMP_SAL이(가) 삭제되었습니다.

-- 13-13) 생성된 인덱스 살펴보기(SUER_IND_COLUMNS 사용)

SELECT * FROM USER_IND_COLUMNS;

♦ INDEX_... ♦ TABLE_... ♦ COLU... ♦ COLU... ♦ COLU... ♦ CHAR_... ♦ DESCE... ♦ COLLA...

-- 13-14) 뷰를 생성하기 위해 계정 변경 접속하기

SQLPLUS SYSTMEM/oracle

GRANT CREAETE VIEW TO SCOTT;

-- 13-15) 뷰 생성하기

CREATE VIEW VW_EMP20 AS (SELECT EMPNO, ENAME, JOB, DEPTNO FROM EMP WHERE DEPTNO = 20);

View VM_EMP20이(가) 생성되었습니다.

-- 13-16) 생성한 뷰 확인하기

SELECT * FROM USER_VIEWS;

	TEXT_LENGTH	TEXT									♦ TEXT_	_VC							
1 VM_EMP20	61	(SELECT	EMPNO,	ENAME,	JOB,	DEPTN0	FROM EM	P WHERE	DEPTN0	= 20)	(SELECT	EMPNO,	ENAME,	JOB,	DEPTN0	FROM EMP	WHERE	DEPTN0	= 20)

-- 13-17) 생성한 뷰 내용 확인하기(SCOTT 계정으로 접속했을 때)

SELECT VIEW_NAME, TEXT_LENGTH, TEXT FROM USER_VIEWS;

		↑ TEXT_LENGTH	TEXT									
1	VM_EMP20	61	(SELECT	EMPNO,	ENAME,	JOB,	DEPTN0	FROM	EMP	WHERE	DEPTN0	= 20)

-- 13-18) 생성한 뷰 조회하기

SELECT * FROM VW_EMP20;

	⊕ EMPNO	♦ ENAME	∜ JOB	
1	7369	SMITH	CLERK	20
2	7566	JONES	MANAGER	20
3	7788	SC0TT	ANALYST	20
4	7876	ADAMS	CLERK	20
5	7902	FORD	ANALYST	20

-- 13-19) 뷰 삭제하기

DROP VIEW VW_EMP20;

View VW_EMP20이(가) 삭제되었습니다.

-- 13-20) ROWNUM을 추가로 조회하기

SELECT ROWNUM, E.* FROM EMP E;

	ROWNUM ⟨	€ EMPNO	♦ ENAME	\$ JOB	∯ MGR	♦ HIREDATE	∜ SAL	⊕ СОММ	⊕ DEPTNO
1	1	7369	SMITH	CLERK	7902	1980/12/17	800	(null)	20
2	2	7499	ALLEN	SALESMAN	7698	1981/02/20	1600	300	30
3	3	7521	WARD	SALESMAN	7698	1981/02/22	1250	500	30
4	4	7566	JONES	MANAGER	7839	1981/04/02	2975	(null)	20
5	5	7654	MARTIN	SALESMAN	7698	1981/09/28	1250	1400	30
6	6	7698	BLAKE	MANAGER	7839	1981/05/01	2850	(null)	30
7	7	7782	CLARK	MANAGER	7839	1981/06/09	2450	(null)	10
8	8	7788	SC0TT	ANALYST	7566	1982/12/09	3000	(null)	20
9	9	7839	KING	PRESIDENT	(null)	1981/11/17	5000	(null)	10
10	10	7844	TURNER	SALESMAN	7698	1981/09/08	1500	0	30
11	11	7876	ADAMS	CLERK	7788	1983/01/12	1100	(null)	20
12	12	7900	JAMES	CLERK	7698	1981/12/03	950	(null)	30
13	13	7902	FORD	ANALYST	7566	1981/12/03	3000	(null)	20
14	14	7934	MILLER	CLERK	7782	1982/01/23	1300	(null)	10

-- 13-21) EMP 테이블을 SAL 열 기준으로 정렬하기

SELECT ROWNUM, E.* FROM EMP E ORDER BY SAL DESC;

	ROWNUM	⊕ EMPNO	₿ ENAME	\$ JOB	∯ MGR	♦ HIREDATE	\$ SAL	⊕ СОММ	⊕ DEPTNO
1	9	7839	KING	PRESIDENT	(null)	1981/11/17	5000	(null)	10
2	13	7902	FORD	ANALYST	7566	1981/12/03	3000	(null)	20
3	8	7788	SC0TT	ANALYST	7566	1982/12/09	3000	(null)	20
4	4	7566	JONES	MANAGER	7839	1981/04/02	2975	(null)	20
5	6	7698	BLAKE	MANAGER	7839	1981/05/01	2850	(null)	30
6	7	7782	CLARK	MANAGER	7839	1981/06/09	2450	(null)	10
7	2	7499	ALLEN	SALESMAN	7698	1981/02/20	1600	300	30
8	10	7844	TURNER	SALESMAN	7698	1981/09/08	1500	0	30
9	14	7934	MILLER	CLERK	7782	1982/01/23	1300	(null)	10
10	3	7521	WARD	SALESMAN	7698	1981/02/22	1250	500	30
11	5	7654	MARTIN	SALESMAN	7698	1981/09/28	1250	1400	30
12	11	7876	ADAMS	CLERK	7788	1983/01/12	1100	(null)	20
13	12	7900	JAMES	CLERK	7698	1981/12/03	950	(null)	30
14	1	7369	SMITH	CLERK	7902	1980/12/17	800	(null)	20

-- 13-22) 인라인 뷰(서브쿼리 사용)

SELECT ROWNUM, E.* FROM (SELECT * FROM EMP E ORDER BY SAL DESC) E;

4	ROWNUM	⊕ EMPNO	♦ ENAME	♦ JOB	∯ MGR	♦ HIREDATE	♦ SAL	⊕ СОММ	
1	1	7839	KING	PRESIDENT		1981/11/17	5000	(null)	10
2	2	7902	FORD	ANALYST 필터	Ⅎ 7566	1981/12/03	3000	(null)	20
3	3	7788	SC0TT	ANALYST	7566	1982/12/09	3000	(null)	20
4	4	7566	JONES	MANAGER	7839	1981/04/02	2975	(null)	20
5	5	7698	BLAKE	MANAGER	7839	1981/05/01	2850	(null)	30
6	6	7782	CLARK	MANAGER	7839	1981/06/09	2450	(null)	10
7	7	7499	ALLEN	SALESMAN	7698	1981/02/20	1600	300	30
8	8	7844	TURNER	SALESMAN	7698	1981/09/08	1500	0	30
9	9	7934	MILLER	CLERK	7782	1982/01/23	1300	(null)	10
10	10	7521	WARD	SALESMAN	7698	1981/02/22	1250	500	30
11	11	7654	MARTIN	SALESMAN	7698	1981/09/28	1250	1400	30
12	12	7876	ADAMS	CLERK	7788	1983/01/12	1100	(null)	20
13	13	7900	JAMES	CLERK	7698	1981/12/03	950	(null)	30
14	14	7369	SMITH	CLERK	7902	1980/12/17	800	(null)	20

-- 13-23) 인라인 뷰(WITH절 사용)

WITH E AS(SELECT * FROm EMP ORDER BY SAL DESC) SELECT ROWNUM, E.* FROM E;

			,.						
	₩로고침 4		♦ ENAME	∜ JOB	∯ MGR		∜ SAL	⊕ СОММ	
1	1	7839	KING	PRESIDENT	(null)	1981/11/17	5000	(null)	10
2	2	7902	FORD	ANALYST	7566	1981/12/03	3000	(null)	20
3	3	7788	SC0TT	ANALYST	7566	1982/12/09	3000	(null)	20
4	4	7566	JONES	MANAGER	7839	1981/04/02	2975	(null)	20
5	5	7698	BLAKE	MANAGER	7839	1981/05/01	2850	(null)	30
6	6	7782	CLARK	MANAGER	7839	1981/06/09	2450	(null)	10
7	7	7499	ALLEN	SALESMAN	7698	1981/02/20	1600	300	30
8	8	7844	TURNER	SALESMAN	7698	1981/09/08	1500	0	30
9	9	7934	MILLER	CLERK	7782	1982/01/23	1300	(null)	10
10	10	7521	WARD	SALESMAN	7698	1981/02/22	1250	500	30
11	11	7654	MARTIN	SALESMAN	7698	1981/09/28	1250	1400	30
12	12	7876	ADAMS	CLERK	7788	1983/01/12	1100	(null)	20
13	13	7900	JAMES	CLERK	7698	1981/12/03	950	(null)	30
14	14	7369	SMITH	CLERK	7902	1980/12/17	800	(null)	20

-- 13-24) 인라인 뷰로 TOP-N 추출하기 (서브쿼리 사용)

SELECT ROWNUM, E.* FROM (SELECT * FROM EMP E ORDER BY SAL DESC) E WHERE ROWNUM <= 3;

	ROWNUM		⊕ ENAME	∜ JOB	∯ MGR	⊕ HIREDATE	∜ SAL	⊕ СОММ	DEPTNO □
1	1	7839	KING	PRESIDENT	(null)	1981/11/17	5000	(null)	10
2	2	7788	SC0TT	ANALYST	7566	1982/12/09	3000	(null)	20
3	3	7902	FORD	ANALYST	7566	1981/12/03	3000	(null)	20

-- 13-25) 인라인 뷰로 TOP-N 추출하기(WITH 절 사용)

WITH E AS (SELECT * FROM EMP ORDER BY SAL DESC) SELECT ROWNUM, E.* FROM E WHERE ROWNUM <= 3;

	♦ ROWNUM	♦ EMPNO	♦ ENAME	\$ JOB		♦ HIREDATE	♦ SAL	⊕ СОММ	DEPTNO
1	1	7839	KING	PRESIDENT	(null)	1981/11/17	5000	(null)	10
2	2	7788	SC0TT	ANALYST	7566	1982/12/09	3000	(null)	20
3	3	7902	FORD	ANALYST	7566	1981/12/03	3000	(null)	20

-- 13-26) DEPT 테이블을 사용하여 DEPT_SEQUENCE 테이블 생성하기
CREATE TABLE DEPT_SEQUENCE AS SELECT * FROM DEPT WHERE 1<>1;
SELECT * FROM DEPT_SEQUENCE;

Table DEPT_SEQUENCE이(가) 생성되었습니다.

-- 13-27) 시퀸스 생성하기

CREATE SEQUENCE SEQ_DEPT_SEQUENCE

INCREMENT BY 10

START WITH 10

MAXVALUE 90

MINVALUE 0

NOCYCLE

CACHE 2;

Sequence SEQ_DEPT_SEQUENCE이(가) 생성되었습니다.

-- 13-28) 생성한 시퀸스 확인하기

SELECT * FROM USER_SEQUENCES;

-- 13-29) 시퀸스에서 생성한 순번을 사용한 INSERT 문 실행하기

INSERT INTO DEPT_SEQUENCE(DEPTNO, DNAME, LOC)

VALUES(SEQ_DEPT_SEQUENCE.NEXTVAL, 'DATABASE', 'SEOUL');

SELECT * FROM DEPT_SEQUENCE ORDER BY DEPTNO;



-- 13-30) 가장 마지막으로 생성된 시퀸스 확인하기

SELECT SEQ_DEPT_SEQUENCE.CURRVAL FROM DUAL;



-- 13-31) 시퀸스에서 생성한 순번을 반복 사용하여 INSERT문 실행하기

INSERT INTO DEPT_SEQUENCE(DEPTNO, DNAME, LOC)

VALUES (SEQ_DEPT_SEQUENCE.NEXTVAL, 'DATABASE', 'SEOUL');

SELECT * FROM DEPT_SEQUENCE ORDER BY DEPTNO;

	♦ DEPTNO		LOC
1	10	DATABASE	SE0UL
2	20	DATABASE	SE0UL
3	30	DATABASE	SE0UL
4	40	DATABASE	SE0UL
5	50	DATABASE	SE0UL
6	60	DATABASE	SE0UL
7	70	DATABASE	SE0UL
8	80	DATABASE	SE0UL
9	90	DATABASE	SE0UL

명령의 105 행에서 시작하는 중 오류 발생 -

INSERT INTO DEPT_SEQUENCE(DEPTNO, DNAME, LOC)

VALUES (SEQ_DEPT_SEQUENCE.NEXTVAL, 'DATABASE', 'SEOUL')

오류 보고 -

ORA-08004: 시퀀스 SEQ_DEPT_SEQUENCE.NEXTVAL exceeds MAXVALUE은 사례로 될 수 없습니다

-- 13-32) 시퀸스 옵션 수정하기

ALTER SEQUENCE SEQ_DEPT_SEQUENCE INCREMENT BY 3 MAXVALUE 99 CYCLE;

Sequence SEQ_DEPT_SEQUENCE이(가) 변경되었습니다.

-- 13-33) 옵션을 수정한 시퀸스 조회하기

SELECT * FROM USER_SEQUENCES;

*** SEQUENCE_NAME | MIN_VALUE | MAX_VALUE | MIN_VALUE | MIN_VALUE

-- 13-34) 수정한 시퀸스를 사용하여 INSERT문 실행하기

INSERT INTO DEPT_SEQUENCE(DEPTNO, DNAME, LOC)

VALUES(SEQ_DEPT_SEQUENCE.NEXTVAL, 'DATABASE', 'SEOUL');

SELECT * FROM DEPT_SEQUENCE ORDER BY DEPTNO;

	⊕ DEPTNO	♦ DNAME	∯ LOC
1	10	DATABASE	SE0UL
2	20	DATABASE	SE0UL
3	30	DATABASE	SE0UL
4	40	DATABASE	SE0UL
5	50	DATABASE	SE0UL
6	60	DATABASE	SE0UL
7	70	DATABASE	SE0UL
8	80	DATABASE	SE0UL
9	90	DATABASE	SE0UL
10	93	DATABASE	SE0UL

-- 13-35) CYCLE 옵션을 사용한 시퀸스의 최댓값 도달 후 수행 결과 확인하기

INSERT INTO DEPT_SEQUENCE(DEPTNO, DNAME, LOC)

VALUES(SEQ_DEPT_SEQUENCE.NEXTVAL, 'DATABASE', 'SEOUL');

SELECT * FROM DEPT_SEQUENCE ORDER BY DEPTNO;

	♦ DEPTNO		∯ LOC
1	0	DATABASE	SE0UL
2	3	DATABASE	SE0UL
3	10	DATABASE	SE0UL
4	20	DATABASE	SE0UL
5	30	DATABASE	SE0UL
6	40	DATABASE	SE0UL
7	50	DATABASE	SE0UL
8	60	DATABASE	SE0UL
9	70	DATABASE	SE0UL
10	80	DATABASE	SE0UL
11	90	DATABASE	SE0UL
12	93	DATABASE	SE0UL
13	96	DATABASE	SE0UL
14	99	DATABASE	SE0UL

-- 13-36) 시퀸스 삭제 후 확인하기

DROP SEQUENCE SEQ_DEPT_SEQUENCE;

SELECT * FROM USER_SEQUENCES;

⊕ SEQUENCE_NAME | ⊕ MIN_VALUE | ⊕ MAX_VALUE | ⊕ INCREMENT_BY | ⊕ CYCLE_FLAG | ⊕ ORDER_FLAG | ⊕ CACHE_SIZE | ⊕ LAST_NUMBER | ⊕ SCALE_FLAG | ⊕ EXTEND_FLAG | ⊕ SESSION_FLAG | ⊕ S

-- 13-37) 권한 부여하기(SQL * PLUS)

SQLPLUS SYSTEM/oracle

GRANT CREAT SYNONYM TO SCOTT;

GRANT CREATE PUBLIC SYNONYM TO SCOTT;

-- 13-38) EMP 테이블의 동의어 생성하기

CREATE SYNONYM E FOR EMP;

Synonym E이(가) 생성되었습니다.

-- 13-39) E 테이블 전체 내용 조회하기

SELECT * FROM E;

	⊕ EMPNO	♦ ENAME	\$ JOB		♦ HIREDATE	\$ SAL	⊕ СОММ	
1	7369	SMITH	CLERK	7902	1980/12/17	800	(null)	20
2	7499	ALLEN	SALESMAN	7698	1981/02/20	1600	300	30
3	7521	WARD	SALESMAN	7698	1981/02/22	1250	500	30
4	7566	JONES	MANAGER	7839	1981/04/02	2975	(null)	20
5	7654	MARTIN	SALESMAN	7698	1981/09/28	1250	1400	30
6	7698	BLAKE	MANAGER	7839	1981/05/01	2850	(null)	30
7	7782	CLARK	MANAGER	7839	1981/06/09	2450	(null)	10
8	7788	SC0TT	ANALYST	7566	1982/12/09	3000	(null)	20
9	7839	KING	PRESIDENT	(null)	1981/11/17	5000	(null)	10
10	7844	TURNER	SALESMAN	7698	1981/09/08	1500	0	30
11	7876	ADAMS	CLERK	7788	1983/01/12	1100	(null)	20
12	7900	JAMES	CLERK	7698	1981/12/03	950	(null)	30
13	7902	FORD	ANALYST	7566	1981/12/03	3000	(null)	20
14	7934	MILLER	CLERK	7782	1982/01/23	1300	(null)	10

-- 13-40) 동의어 삭제하기

DROP SYNONYM E;

Synonym E이(가) 삭제되었습니다.