**데이터베이스 시스템 과제물 제출**

**1826074 오현진**

**지도교수 : 오염덕교수님**

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**[문제 1] 컬럼 복사하기**

SQL> create table emptwo

2 as

3 select empno, ename, sal

4 from emp;

Table created.

SQL> select \* from emptwo;

EMPNO ENAME SAL

---------- ---------- ----------

7839 KING 5000

7698 BLAKE 2850

7782 CLARK 2450

7566 JONES 2975

7788 SCOTT 3000

7902 FORD 3000

7369 SMITH 800

7499 ALLEN 1600

7521 WARD 1250

7654 MARTIN 1250

7844 TURNER 1500

EMPNO ENAME SAL

---------- ---------- ----------

7876 ADAMS 1100

7900 JAMES 950

7934 MILLER 1300

1000 Tiger 3600

1000 Tiger 3600

2000 Cat 3000

**emp 테이블의 특정 칼럼을 복사하였습니다.**

**[문제2] 칼럼의 구조 복사하기**

SQL> create table depttt

2 as select \* from dept

3 where 1 = 2;

Table created.

SQL> select \* from depttt;

no rows selected

**칼럼의 구조만 복사하여 값은 검색되지 않습니다.**

**[문제3] 특정 조건을 만족하는 칼럼 복사하기**

SQL> create table dept66

2 as

3 select deptno, dname

4 from dept

5 where deptno in(10,20,30);

Table created.

**deptno가 10,20,30인 칼럼만 복사하였습니다.**

**[문제4] 열 추가하기**

SQL> alter table dept66

2 add(location varchar2(10));

Table altered.

SQL> select \* from dept66;

DEPTNO DNAME LOCATION

---------- -------------- ----------

10 ACCOUNTING

20 RESEARCH

30 SALES

**새로운 열을 추가하였습니다.**

**[문제5] 칼럼을 추가하며 기본값 설정하기**

SQL> alter table dept66

2 add(location2 varchar2(10) default 'seoul');

Table altered.

SQL> select \* from dept66;

DEPTNO DNAME LOCATION LOCATION2

---------- -------------- ---------- ----------

10 ACCOUNTING seoul

20 RESEARCH seoul

30 SALES seoul

**기본값이 seoul인 열을 추가하였습니다.**

**[문제6] 읽기 전용 테이블 생성하기**

SQL> create table t\_readonly

2 (no number,

3 name varchar2(10));

Table created.

SQL> insert into t\_readonly

2 values (1,'AAA');

1 row created.

SQL> commit;

Commit complete.

SQL> select \* from t\_readonly;

NO NAME

---------- ----------

1 AAA

SQL> alter table t\_readonly read only;

Table altered.

SQL> insert into t\_readonly

2 values (2,'BBB');

insert into t\_readonly

\*

ERROR at line 1:

ORA-12081: update operation not allowed on table "USER17"."T\_READONLY"

SQL> alter table t\_readonly

2 add (tel number default 111);

alter table t\_readonly

\*

ERROR at line 1:

ORA-12081: update operation not allowed on table "USER17"."T\_READONLY"

SQL> alter table t\_readonly read write;

Table altered.

SQL> drop table t\_readonly;

Table dropped.

**읽기 전용 테이블을 만들고 값을 입력하여 에러를 출력시켜 보았습니다.**

**[문제7] 가상 칼럼 처리하기**

(step1) 가상 칼럼 생성하기

SQL> create table vtu

2 ( col1 number,

3 col2 number,

4 col3 number generated always as (col1 + col2));

Table created.

(2) 가상 칼럼에 값 입력 시도하기

SQL> insert into vtu values(1,2,3);

insert into vtu values(1,2,3)

\*

ERROR at line 1:

ORA-54013: INSERT operation disallowed on virtual columns

SQL> insert into vtu (col1,col2) values(1,2);

1 row created.

(3) 값 조회하기

SQL> select \* from vtu;

COL1 COL2 COL3

---------- ---------- ----------

1 2 3

(4) 입력된 데이터 변경하기

SQL> update vtu

2 set col1 = 5;

1 row updated.

SQL> select \* from vtu;

COL1 COL2 COL3

---------- ---------- ----------

5 2 7

(5) 새로운 가상 칼럼 추가하기

SQL> alter table vtu

2 add (col4 generated always as ((col1\*12)+col2));

Table altered.

SQL> select \* from vtu;

COL1 COL2 COL3 COL4

---------- ---------- ---------- ----------

5 2 7 62

(6) 가상 칼럼 내역 조회하기

SQL> set line 200

SQL> col column\_name for a10

SQL> col data\_type for a10

SQL> col data\_default for a25

SQL> select column\_name,

2 data\_type, data\_default

3 from user\_tab\_columns

4 where table\_name = 'VTU'

5 order by column\_id;

COLUMN\_NAM DATA\_TYPE DATA\_DEFAULT

---------- ---------- -------------------------

COL1 NUMBER

COL2 NUMBER

COL3 NUMBER "COL1"+"COL2"

COL4 NUMBER "COL1"\*12+"COL2"

**절차에 따라 가상 칼럼을 생성하고 조회하였습니다.**

**[문제8] DDL 명령 실습**

SQL> create table st\_table

2 (no number);

Table created.

SQL> begin

2 for i in 1..1000 LOOP

3 insert into st\_table values(i);

4 end LOOP;

5 commit;

6 end;

7 /

PL/SQL procedure successfully completed.

SQL> select count(\*) from st\_table;

COUNT(\*)

----------

1000

SQL> select num\_rows, blocks

2 from user\_tables

3 where table\_name = 'ST\_TABLE';

NUM\_ROWS BLOCKS

---------- ----------

SQL> analyze table st\_table compute statistics;

Table analyzed.

SQL> select num\_rows, blocks

2 from user\_tables

3 where table\_name = 'ST\_TABLE';

NUM\_ROWS BLOCKS

---------- ----------

1000 5

**DDL을 성공적으로 수행하였습니다.**

**[문제9] 데이터 사전 실습**

(1) all\_indexes -> 모든 인덱스명과 타입을 조회하였습니다.

SQL> select index\_name, index\_type

2 from all\_indexes;

INDEX\_NAME INDEX\_TYPE

-------------------------------------------------------------------------------------------------------------------------------- ---------------------------

SYS\_C0016012 NORMAL

SYS\_C0016008 NORMAL

SYS\_C0016005 NORMAL

SYS\_C0015975 NORMAL

SYS\_C0015969 NORMAL

SYS\_C0015967 NORMAL

SYS\_C0015965 NORMAL

SYS\_C0015851 NORMAL

SYS\_C0015846 NORMAL

SYS\_C0015843 NORMAL

SYS\_C0015841 NORMAL

INDEX\_NAME INDEX\_TYPE

-------------------------------------------------------------------------------------------------------------------------------- ---------------------------

TE\_NO\_PK2 NORMAL

TV\_NO\_PK2 NORMAL

SYS\_C0014716 NORMAL

SYS\_C0014712 NORMAL

DEPT\_TEST\_NO\_UK NORMAL

IDX\_EMP2\_COMP2 NORMAL

IDX\_EMP2\_COMP NORMAL

IDX\_EMP2\_SAL1 FUNCTION-BASED NORMAL

IDX\_EMP2\_SAL\_FBI FUNCTION-BASED NORMAL

IDX\_EMP2\_DEPTNO NORMAL

IDX\_DEPT\_2\_DNAME NORMAL

INDEX\_NAME INDEX\_TYPE

-------------------------------------------------------------------------------------------------------------------------------- ---------------------------

IDX\_EMP2\_ENAME NORMAL

TCONS\_JUMIN\_UK2 NORMAL

TCONS\_NO\_PK2 NORMAL

DECODE\_PK NORMAL

SYS\_C0015747 NORMAL

TCONS\_NO\_PK NORMAL

SYS\_C0015744 NORMAL

TE\_NO\_PK NORMAL

TV\_NO\_PK NORMAL

SYS\_C0013553 NORMAL

CTEST2\_NO\_UK NORMAL

INDEX\_NAME INDEX\_TYPE

-------------------------------------------------------------------------------------------------------------------------------- ---------------------------

SYS\_C0013851 NORMAL

PK\_EMP NORMAL

SDO\_TIN\_PC\_IDX NORMAL

SDO\_UNQ\_PCATTR\_TIN\_PC NORMAL

SDO\_PK\_TIN\_PC NORMAL

SDO\_PK\_SEQ\_TIN\_PC NORMAL

SYS\_C006221 NORMAL

SYS\_C006220 NORMAL

SDO\_WS\_CONF\_PART\_PK NORMAL

SDO\_WS\_CONF\_RES\_\_PK NORMAL

SDO\_WS\_CONF\_PK NORMAL

INDEX\_NAME INDEX\_TYPE

-------------------------------------------------------------------------------------------------------------------------------- ---------------------------

SYS\_C006099 NORMAL

SYS\_C006098 NORMAL

SDO\_GR\_RDT\_2\_PK NORMAL

SDO\_GR\_RDT\_1\_PK NORMAL

SYS\_C006095 NORMAL

SYS\_C006091 NORMAL

SYS\_C006090 NORMAL

SYS\_C006089 NORMAL

NTV2\_XML\_DATA\_PK NORMAL

SYS\_C005928 NORMAL

SYS\_C005925 NORMAL

INDEX\_NAME INDEX\_TYPE

-------------------------------------------------------------------------------------------------------------------------------- ---------------------------

SYS\_C005924 NORMAL

SYS\_C005923 NORMAL

AWREPORT\_I$ NORMAL

AWXML\_I$ NORMAL

AWCREATE10G\_I$ NORMAL

AWCREATE\_I$ NORMAL

AWMD\_I$ NORMAL

EXPRESS\_I$ NORMAL

SYS\_C005887 NORMAL

UOM\_UNIQUE\_SHORT\_NAME NORMAL

COORD\_OP\_PARA\_VAL\_PRIM NORMAL

INDEX\_NAME INDEX\_TYPE

-------------------------------------------------------------------------------------------------------------------------------- ---------------------------

COORD\_OP\_PARA\_USE\_PRIM NORMAL

COORD\_OP\_PARA\_PRIM NORMAL

PREFERRED\_OPS\_USE\_PRIM NORMAL

PREFERRED\_OPS\_SYS\_PRIM NORMAL

COORD\_OP\_NAME\_UNIQUE NORMAL

COORD\_OP\_PRIM NORMAL

COORD\_OP\_METHOD\_PRIM NORMAL

COORD\_REF\_SYSTEM\_PRIM NORMAL

COORD\_AXIS\_PRIM NORMAL

COORD\_AXIS\_NAME\_PRIM NORMAL

COORDINATE\_SYSTEM\_PRIM NORMAL

INDEX\_NAME INDEX\_TYPE

-------------------------------------------------------------------------------------------------------------------------------- ---------------------------

DATUM\_PRIM NORMAL

ELLIPSOID\_PRIM NORMAL

PRIME\_MERIDIAN\_PRIM NORMAL

UNIT\_OF\_MEASURE\_PRIM NORMAL

UOM\_UNIQUE1 NORMAL

SDO\_COORD\_OPS\_COORD\_OP\_TYPE NORMAL

SDO\_COORD\_REF\_SYS\_KIND NORMAL

SYS\_C005617 NORMAL

SDO\_COORD\_SYS\_COORD\_SYS\_TYPE NORMAL

SYS\_C005615 NORMAL

SDO\_DATUMS\_DATUM\_TYPE NORMAL

INDEX\_NAME INDEX\_TYPE

-------------------------------------------------------------------------------------------------------------------------------- ---------------------------

SYS\_C005602 NORMAL

PK\_SRID NORMAL

SYS\_C005590 NORMAL

DR\_THS\_RINGID NORMAL

DR\_UNIQ\_THS\_PHRASE NORMAL

SYS\_C005016 NORMAL

SYS\_C005014 NORMAL

SYS\_C005013 NORMAL

DRC$OAT\_NAME NORMAL

DRC$OAT\_KEY NORMAL

HELP\_TOPIC\_SEQ NORMAL

INDEX\_NAME INDEX\_TYPE

-------------------------------------------------------------------------------------------------------------------------------- ---------------------------

SYS\_C004665 NORMAL

SYS\_C004664 NORMAL

XDB$ELEMENT\_GLOBAL BITMAP

XDB$ELEMENT\_HER FUNCTION-BASED NORMAL

XDB$COMPLEX\_TYPE\_AK FUNCTION-BASED NORMAL

XDB$COMPLEX\_TYPE\_CK FUNCTION-BASED NORMAL

XDB$COMPLEX\_TYPE\_SK FUNCTION-BASED NORMAL

XDB$ELEMENT\_TR FUNCTION-BASED NORMAL

XDB$ELEMENT\_PR FUNCTION-BASED NORMAL

XDB$ELEMENT\_PS FUNCTION-BASED NORMAL

XDB$SCHEMA\_URL NORMAL

INDEX\_NAME INDEX\_TYPE

-------------------------------------------------------------------------------------------------------------------------------- ---------------------------

XDB$ELEMENT\_PROPNAME NORMAL

XDB$ELEMENT\_PROPNUMBER NORMAL

SYS\_C004659 NORMAL

SYS\_C004658 NORMAL

SYS\_C004657 NORMAL

SYS\_C004656 NORMAL

SYS\_C004655 NORMAL

SYS\_C004654 NORMAL

SYS\_C004653 NORMAL

SYS\_C004652 NORMAL

SYS\_C004651 NORMAL

INDEX\_NAME INDEX\_TYPE

-------------------------------------------------------------------------------------------------------------------------------- ---------------------------

SYS\_C004650 NORMAL

SYS\_C004649 NORMAL

SYS\_C004648 NORMAL

SYS\_C004647 NORMAL

SYS\_C004646 NORMAL

SYS\_C004368 NORMAL

SYS\_C004367 NORMAL

HS\_PARALLEL\_METADATA\_PK NORMAL

SYS\_FK0000017287N00019$ NORMAL

SYS\_FK0000017287N00017$ NORMAL

KU$XKTFBUE\_I NORMAL

INDEX\_NAME INDEX\_TYPE

-------------------------------------------------------------------------------------------------------------------------------- ---------------------------

OL$HNT\_NUM NORMAL

OL$SIGNATURE NORMAL

OL$NAME NORMAL

I\_AUDIT\_ACTIONS NORMAL

I\_STMT\_AUDIT\_OPTION\_MAP NORMAL

I\_USER\_PRIVILEGE\_MAP NORMAL

I\_TABLE\_PRIVILEGE\_MAP NORMAL

I\_SYSTEM\_PRIVILEGE\_MAP NORMAL

(2) all\_tables - > 모든 테이블의 소유자와 테이블명을 조회하였습니다.

SQL> select owner, table\_name

2 from all\_tables;

OWNER TABLE\_NAME

----- ----------

SYS DUAL

SYS SYSTEM\_PRI

VILEGE\_MAP

SYS TABLE\_PRIV

ILEGE\_MAP

SYS USER\_PRIVI

LEGE\_MAP

SYS STMT\_AUDIT

OWNER TABLE\_NAME

----- ----------

\_OPTION\_MA

P

SYS AUDIT\_ACTI

ONS

SYS WRR$\_REPLA

Y\_CALL\_FIL

TER

SYS HS\_BULKLOA

OWNER TABLE\_NAME

----- ----------

D\_VIEW\_OBJ

SYS HS$\_PARALL

EL\_METADAT

A

SYS HS\_PARTITI

ON\_COL\_NAM

E

SYS HS\_PARTITI

OWNER TABLE\_NAME

----- ----------

ON\_COL\_TYP

E

XDB XDB$IMPORT

\_TT\_INFO

XDB XDB\_INDEX\_

DDL\_CACHE

SYSTE HELP

M

OWNER TABLE\_NAME

----- ----------

CTXSY DR$OBJECT\_

S ATTRIBUTE

CTXSY DR$POLICY\_

S TAB

CTXSY DR$THS

S

CTXSY DR$THS\_PHR

OWNER TABLE\_NAME

----- ----------

S ASE

CTXSY DR$NUMBER\_

S SEQUENCE

MDSYS SRSNAMESPA

CE\_TABLE

MDSYS SDO\_COORD\_

OP\_METHODS

OWNER TABLE\_NAME

----- ----------

MDSYS SDO\_COORD\_

OPS

MDSYS SDO\_PREFER

RED\_OPS\_SY

STEM

MDSYS SDO\_PREFER

RED\_OPS\_US

ER

OWNER TABLE\_NAME

----- ----------

MDSYS SDO\_COORD\_

OP\_PATHS

MDSYS SDO\_COORD\_

OP\_PARAMS

MDSYS SDO\_COORD\_

OP\_PARAM\_U

SE

MDSYS SDO\_COORD\_

OWNER TABLE\_NAME

----- ----------

OP\_PARAM\_V

ALS

MDSYS SDO\_CRS\_GE

OGRAPHIC\_P

LUS\_HEIGHT

MDSYS SDO\_XML\_SC

HEMAS

SYS AW$EXPRESS

OWNER TABLE\_NAME

----- ----------

SYS AW$AWMD

SYS AW$AWCREAT

E

SYS AW$AWCREAT

E10G

SYS AW$AWXML

MDSYS SDO\_CS\_SRS

MDSYS NTV2\_XML\_D

ATA

OWNER TABLE\_NAME

----- ----------

MDSYS SDO\_PROJEC

TIONS\_OLD\_

SNAPSHOT

MDSYS SDO\_ELLIPS

OIDS\_OLD\_S

NAPSHOT

MDSYS SDO\_DATUMS

\_OLD\_SNAPS

OWNER TABLE\_NAME

----- ----------

HOT

MDSYS SDO\_FEATUR

E\_USAGE

MDSYS SDO\_GEOR\_X

MLSCHEMA\_T

ABLE

MDSYS OGIS\_SPATI

AL\_REFEREN

OWNER TABLE\_NAME

----- ----------

CE\_SYSTEMS

MDSYS OGIS\_GEOME

TRY\_COLUMN

S

MDSYS SDO\_UNITS\_

OF\_MEASURE

MDSYS SDO\_PRIME\_

MERIDIANS

OWNER TABLE\_NAME

----- ----------

MDSYS SDO\_ELLIPS

OIDS

MDSYS SDO\_DATUMS

MDSYS SDO\_COORD\_

SYS

MDSYS SDO\_COORD\_

AXIS\_NAMES

OWNER TABLE\_NAME

----- ----------

MDSYS SDO\_COORD\_

AXES

MDSYS SDO\_COORD\_

REF\_SYS

SYS AW$AWREPOR

T

MDSYS SDO\_GEOR\_P

LUGIN\_REGI

OWNER TABLE\_NAME

----- ----------

STRY

MDSYS SDO\_WS\_CON

FERENCE

MDSYS SDO\_WS\_CON

FERENCE\_RE

SULTS

MDSYS SDO\_WS\_CON

FERENCE\_PA

OWNER TABLE\_NAME

----- ----------

RTICIPANTS

MDSYS SDO\_TIN\_PC

\_SEQ

MDSYS SDO\_TIN\_PC

\_SYSDATA\_T

ABLE

APEX\_ WWV\_FLOW\_D

04020 UAL100

OWNER TABLE\_NAME

----- ----------

0

SCOTT EMP

USER1 EMP

7

USER1 DEPT

7

USER1 SALGRADE

7

OWNER TABLE\_NAME

----- ----------

USER1 CAT\_A

7

USER1 CAT\_B

7

USER1 CAT\_C

7

USER1 CUSTOMER

OWNER TABLE\_NAME

----- ----------

7

USER1 GIFT

7

USER1 STUDENT

7

USER1 SCORE

7

OWNER TABLE\_NAME

----- ----------

USER1 HAKJUM

7

USER1 PROFESSOR

7

USER1 RO

7

USER1 VT1

7

OWNER TABLE\_NAME

----- ----------

USER1 ST\_TABLE

7

USER1 T\_MINUS

7

USER1 C\_TEST1

7

USER1 C\_TEST2

OWNER TABLE\_NAME

----- ----------

7

USER1 T\_NOVA

7

USER1 T\_VAL

7

USER1 T\_ENABLE

7

OWNER TABLE\_NAME

----- ----------

USER1 DEPT2

7

USER1 TCONS

7

USER1 DEPT3

7

USER1 LOG\_TABLE

7

OWNER TABLE\_NAME

----- ----------

USER1 EMP1

7

USER1 EMP\_TEM

7

USER1 DEPT\_TEM

7

USER1 DEPT6

OWNER TABLE\_NAME

----- ----------

7

USER1 VT\_TEST

7

USER1 ST\_TEST

7

USER1 NEW\_EMP

7

OWNER TABLE\_NAME

----- ----------

USER1 NEW\_EMP2

7

USER1 NEW\_EMP3

7

USER1 CHARGE\_01

7

USER1 CHARGE\_02

7

OWNER TABLE\_NAME

----- ----------

USER1 CH\_TOTAL

7

USER1 STU\_TEST

7

USER1 DEPT\_TEST

7

USER1 T\_NOVAILDA

OWNER TABLE\_NAME

----- ----------

7 TE

USER1 T\_NOVALIDA

7 TE

USER1 T\_VALIDATE

7

USER1 T\_ENABLE2

7

OWNER TABLE\_NAME

----- ----------

USER1 TCONS2

7

USER1 EMP22

7

USER1 EMP2

7

USER1 DEPT\_2

7

OWNER TABLE\_NAME

----- ----------

USER1 O\_TABLE

7

USER1 EMPLOYEE

7

USER1 PROJECT

7

USER1 CLIENT

OWNER TABLE\_NAME

----- ----------

7

USER1 PUBLISHER

7

USER1 BOOK

7

USER1 ORDERS

7

OWNER TABLE\_NAME

----- ----------

USER1 CLIENTS

7

USER1 ACCOUNT

7

USER1 BRANCH

7

USER1 TRANSACT

7

OWNER TABLE\_NAME

----- ----------

USER1 SUPPLIER

7

USER1 TRADE

7

USER1 TAXTABLE

7

USER1 CAL

OWNER TABLE\_NAME

----- ----------

7

USER1 LOG\_TABLE2

7

USER1 EMP10

7

USER1 DEPT33

7

OWNER TABLE\_NAME

----- ----------

USER1 DEPT44

7

USER1 EMPTWO

7

USER1 DEPTTT

7

USER1 DEPT66

7

OWNER TABLE\_NAME

----- ----------

USER1 VTU

7

SYS PSTUBTBL

SYS WRI$\_ADV\_A

SA\_RECO\_DA

TA

SYS WRI$\_HEATM

AP\_TOPN\_DE

OWNER TABLE\_NAME

----- ----------

P1

SYS WRI$\_HEATM

AP\_TOPN\_DE

P2

SYS PLAN\_TABLE

$

SYSTE OL$

M

OWNER TABLE\_NAME

----- ----------

SYSTE OL$HINTS

M

SYSTE OL$NODES

M

SYS KU$NOEXP\_T

AB

SYS KU$\_LIST\_F

OWNER TABLE\_NAME

----- ----------

ILTER\_TEMP

SYS KU$\_LIST\_F

ILTER\_TEMP

\_2

SYS ODCI\_SECOB

J$

SYS ODCI\_WARNI

NGS$

OWNER TABLE\_NAME

----- ----------

SYS ODCI\_PMO\_R

OWIDS$

SYS XS$VALIDAT

ION\_TABLE

SYS KU$XKTFBUE

SYS IMPDP\_STAT

S

OWNER TABLE\_NAME

----- ----------

SYS KU$\_DATAPU

MP\_MASTER\_

12\_0

SYS KU$\_DATAPU

MP\_MASTER\_

11\_2

SYS KU$\_DATAPU

MP\_MASTER\_

11\_1\_0\_7

OWNER TABLE\_NAME

----- ----------

SYS KU$\_DATAPU

MP\_MASTER\_

11\_1

SYS KU$\_DATAPU

MP\_MASTER\_

10\_1

SYS SPD\_SCRATC

H\_TAB

OWNER TABLE\_NAME

----- ----------

XDB XDB$XIDX\_I

MP\_T

SYS SAM\_SPARSI

TY\_ADVICE

MDSYS SDO\_ST\_TOL

ERANCE

MDSYS SDO\_TXN\_ID

OWNER TABLE\_NAME

----- ----------

X\_INSERTS

MDSYS SDO\_TXN\_ID

X\_DELETES

MDSYS SDO\_TXN\_ID

X\_EXP\_UPD\_

RGN

MDSYS SDO\_CS\_CON

TEXT\_INFOR

OWNER TABLE\_NAME

----- ----------

MATION

MDSYS SDO\_TOPO\_T

RANSACT\_DA

TA

MDSYS SDO\_TOPO\_R

ELATION\_DA

TA

MDSYS SDO\_TOPO\_D

OWNER TABLE\_NAME

----- ----------

ATA$

MDSYS SDO\_GR\_MOS

AIC\_0

MDSYS SDO\_GR\_MOS

AIC\_1

MDSYS SDO\_GR\_MOS

AIC\_2

OWNER TABLE\_NAME

----- ----------

MDSYS SDO\_GR\_MOS

AIC\_3

MDSYS SDO\_GR\_PAR

ALLEL

MDSYS SDO\_GR\_RDT

\_1

MDSYS SDO\_WFS\_LO

CAL\_TXNS

OWNER TABLE\_NAME

----- ----------

USER1 TEMP01

7

USER1 TEMP02

7

USER1 TEMP001

7

USER1 TEMP0001

OWNER TABLE\_NAME

----- ----------

7

USER1 EX01

7

USER1 EX02

7

USER1 EX1

7

OWNER TABLE\_NAME

----- ----------

USER1 EX2

7

USER1 TP01

7

USER1 EMP4

7

USER1 EMP3

7

OWNER TABLE\_NAME

----- ----------

(3) all\_apply -> 모든 적용된 이름과 큐 이름을 조회했으나 나오지 않앗습니다.

SQL> select apply\_name, queue\_name

2 from all\_apply;

no rows selected

(4) user\_cubes -> 모든 cube와 aw 명을 조회했으나 나오지 않았습니다.

SQL> select cube\_name, aw\_name

2 from user\_cubes;

no rows selected

(5) user\_sequences -> 모든 최대값과 최솟값을 조회했으나 나오지 않았습니다.

SQL> select min\_value, max\_value

2 from user\_sequences;

no rows selected

(6) user\_constraints -> 모든 constraint 명과 타입을 조회하였습니다.

SQL> select constraint\_name constraint\_type

2 from user\_constraints;

CONSTRAINT\_TYPE

--------------------------------------------------------------------------------------------------------------------------------

SYS\_C0013552

SYS\_C0015849

SYS\_C0015850

TCONS\_NAME\_NN

TCONS\_AREA\_CK

SYS\_C0014711

SYS\_C0014715

SYS\_C0015743

SYS\_C0015745

SYS\_C0015746

TCONS\_NAME\_NN2

CONSTRAINT\_TYPE

--------------------------------------------------------------------------------------------------------------------------------

TCONS\_AREA\_CK2

SYS\_C0015278

SYS\_C0015280

SYS\_C0015840

SYS\_C0015842

SYS\_C0015844

SYS\_C0015845

SYS\_C0015964

SYS\_C0015966

SYS\_C0015968

SYS\_C0015971

CONSTRAINT\_TYPE

--------------------------------------------------------------------------------------------------------------------------------

SYS\_C0015972

SYS\_C0015973

SYS\_C0015974

SYS\_C0016004

SYS\_C0016006

SYS\_C0016007

SYS\_C0016009

SYS\_C0016010

SYS\_C0016011

SYS\_C0015853

SYS\_C0015847

CONSTRAINT\_TYPE

--------------------------------------------------------------------------------------------------------------------------------

SYS\_C0015852

STU\_TEST\_DEPTNO\_FK

TRONS\_DEPTNO\_FK2

TCONS\_DEPTNO\_FK

CTEST1\_DEPTNO\_FK

CTEST2\_NO\_UK

SYS\_C0013553

TV\_NO\_PK

TE\_NO\_PK

TCONS\_NO\_PK

DECODE\_PK

CONSTRAINT\_TYPE

--------------------------------------------------------------------------------------------------------------------------------

SYS\_C0013851

DEPT\_TEST\_NO\_UK

SYS\_C0014712

SYS\_C0014716

TV\_NO\_PK2

TE\_NO\_PK2

TCONS\_NO\_PK2

TCONS\_JUMIN\_UK2

SYS\_C0015744

SYS\_C0015747

SYS\_C0015841

CONSTRAINT\_TYPE

--------------------------------------------------------------------------------------------------------------------------------

SYS\_C0015843

SYS\_C0015846

SYS\_C0015851

SYS\_C0015965

SYS\_C0015967

SYS\_C0015969

SYS\_C0015975

SYS\_C0016005

SYS\_C0016008

SYS\_C0016012

TV\_NAME\_NN

CONSTRAINT\_TYPE

--------------------------------------------------------------------------------------------------------------------------------

TE\_NAME\_NN

TCONS\_JUMIN\_NN

TE\_NAME\_NN2

TV\_NAME\_NN2

TCONS\_JUMIN\_NN2

(7) dba\_tables -> 테이블의 소유자와 테이블명을 조회하였으나, 권한이 없어 조회 불가 하였습니다.

SQL> select owner, table\_name

2 from dba\_tables;

from dba\_tables

\*

ERROR at line 2:

ORA-00942: table or view does not exist

**7가지의 데이터 사전을 조회하였습니다.**

**[문제10] 연습문제 1~9번**

(1) 테이블 생성 및 값 추가

SQL> create table new\_emp

2 ( no number(5),

3 name varchar2(20),

4 hiredate date,

5 bonus number(6,2));

Table created.

SQL> insert into new\_emp values

2 (1, 'jin', to\_date(20221107,'yyyymmdd'), 110.20);

1 row created.

SQL> insert into new\_emp values

2 (2, 'oh', to\_date(20221108,'yyyymmdd'),210.30);

1 row created.

SQL> insert into new\_emp values

2 (3, 'hyeon', to\_date(20221109,'yyyymmdd'),310.10);

1 row created.

SQL> select \* from new\_emp;

NO NAME HIREDATE BONUS

---------- -------------------- --------- ----------

1 jin 07-NOV-22 110.2

2 oh 08-NOV-22 210.3

3 hyeon 09-NOV-22 310.1

(2) 칼럼을 복사하여 새로운 테이블 생성하기

SQL> create table new\_emp2

2 as

3 select no,name,hiredate

4 from new\_emp;

Table created.

SQL> select \* from new\_emp2;

NO NAME HIREDATE

---------- -------------------- ---------

1 jin 07-NOV-22

2 oh 08-NOV-22

3 hyeon 09-NOV-22

(3) 칼럼의 구조만 복사하여 새로운 테이블 생성하기

SQL> create table new\_emp3

2 as

3 select no,name,hiredate

4 from new\_emp2

5 where 1=2;

Table created.

SQL> select \* from new\_emp3;

no rows selected

(4) 새로운 칼럼 추가하기

SQL> alter table new\_emp2

2 add (birthday date default sysdate);

Table altered.

SQL> select \* from new\_emp2;

NO NAME HIREDATE BIRTHDAY

---------- -------------------- --------- ---------

1 jin 07-NOV-22 07-NOV-22

2 oh 08-NOV-22 07-NOV-22

3 hyeon 09-NOV-22 07-NOV-22

(5) 칼럼명 변경하기

SQL> alter table new\_emp2

2 rename column birthday to birth;

Table altered.

SQL> select \* from new\_emp2;

NO NAME HIREDATE BIRTH

---------- -------------------- --------- ---------

1 jin 07-NOV-22 07-NOV-22

2 oh 08-NOV-22 07-NOV-22

3 hyeon 09-NOV-22 07-NOV-22

(6) 칼럼의 길이 변경하기

SQL> alter table new\_emp2

2 modify (no number(7));

Table altered.

SQL> select \* from new\_emp2;

NO NAME HIREDATE BIRTH

---------- -------------------- --------- ---------

1 jin 07-NOV-22 07-NOV-22

2 oh 08-NOV-22 07-NOV-22

3 hyeon 09-NOV-22 07-NOV-22

(7) 칼럼 삭제하기

SQL> alter table new\_emp2

2 drop column birth;

Table altered.

SQL> select \* from new\_emp2;

NO NAME HIREDATE

---------- -------------------- ---------

1 jin 07-NOV-22

2 oh 08-NOV-22

3 hyeon 09-NOV-22

(8) 칼럼의 데이터만 삭제하기

SQL> truncate table new\_emp2;

Table truncated.

SQL> select \* from new\_emp2;

no rows selected

(9) 테이블 삭제하기

SQL> drop table new\_emp2;

Table dropped.

SQL> select \* from new\_emp2;

select \* from new\_emp2

\*

ERROR at line 1:

ORA-00942: table or view does not exist

**모든 실습을 성공하였습니다.**

**[문제11] 칼럼 값의 자동 반올림 확인**

SQL> create table t\_minus

2 (no2 number(3));

Table created.

SQL> insert into t\_minus values(1.5);

1 row created.

SQL> insert into t\_minus values(-1.5);

1 row created.

SQL> select \* from t\_minus;

NO2

----------

2

-2

**입력한 1.5와 -1.5가 모두 반올림 되는 것을 확인하였습니다.**