**데이터베이스 시스템 과제물 제출**

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**[문제1] PT1-9, 3가지 유형의 오류 처리예제 실습**

SQL> SELECT \*

2 FR

3 OM emp;

FR

\*

ERROR at line 2:

ORA-00923: FROM keyword not found where expected

SQL> SELECT \*

2 FROM em

3 p;

FROM em

\*

ERROR at line 2:

ORA-00942: table or view does not exist

SQL> SELECT em

2 pno

3 FROM emp;

SELECT em

\*

ERROR at line 1:

ORA-00904: "EM": invalid identifier

**[문제2] PT1-10, tab 테이터 사전에서 생성되어진 전체 테이블 확인하기**

SQL> DESC dept;

Name Null? Type

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

DEPTNO NUMBER(2)

DNAME VARCHAR2(14)

LOC VARCHAR2(13)

SQL> SELECT \* FROM tab;

TNAME

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

TABTYPE CLUSTERID

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

ACCOUNT

TABLE

BOOK

TABLE

BRANCH

TABLE

TNAME

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

TABTYPE CLUSTERID

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

CAT\_A

TABLE

CAT\_B

TABLE

CAT\_C

TABLE

TNAME

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

TABTYPE CLUSTERID

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

CHARGE\_01

TABLE

CHARGE\_02

TABLE

CH\_TOTAL

TABLE

TNAME

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

TABTYPE CLUSTERID

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

CLIENT

TABLE

CLIENTS

TABLE

CUSTOMER

TABLE

TNAME

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

TABTYPE CLUSTERID

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

C\_TEST1

TABLE

C\_TEST2

TABLE

DEPT

TABLE

TNAME

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

TABTYPE CLUSTERID

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

DEPT2

TABLE

DEPT3

TABLE

DEPT6

TABLE

TNAME

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

TABTYPE CLUSTERID

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

DEPT\_2

TABLE

DEPT\_TEM

TABLE

DEPT\_TEST

TABLE

TNAME

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

TABTYPE CLUSTERID

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

EMP

TABLE

EMP1

TABLE

EMP10

TABLE

TNAME

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

TABTYPE CLUSTERID

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

EMP2

TABLE

EMP22

TABLE

EMP3

TABLE

TNAME

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

TABTYPE CLUSTERID

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

EMP4

TABLE

EMPLOYEE

TABLE

EMP\_TEM

TABLE

TNAME

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

TABTYPE CLUSTERID

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

GIFT

TABLE

HAKJUM

TABLE

LOG\_TABLE

TABLE

TNAME

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

TABTYPE CLUSTERID

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

LOG\_TABLE2

TABLE

NEW\_EMP

TABLE

NEW\_EMP2

TABLE

TNAME

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

TABTYPE CLUSTERID

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

NEW\_EMP3

TABLE

ORDERS

TABLE

O\_TABLE

TABLE

TNAME

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

TABTYPE CLUSTERID

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

PROFESSOR

TABLE

PROJECT

TABLE

PUBLISHER

TABLE

TNAME

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

TABTYPE CLUSTERID

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

RO

TABLE

SALGRADE

TABLE

SCORE

TABLE

TNAME

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

TABTYPE CLUSTERID

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

STUDENT

TABLE

STU\_TEST

TABLE

ST\_TABLE

TABLE

TNAME

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

TABTYPE CLUSTERID

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

ST\_TEST

TABLE

SUPPLIER

TABLE

TAXTABLE

TABLE

TNAME

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

TABTYPE CLUSTERID

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

TCONS

TABLE

TCONS2

TABLE

TEMP01

TABLE

TNAME

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

TABTYPE CLUSTERID

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

TEMP02

TABLE

TRADE

TABLE

TRANSACT

TABLE

TNAME

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

TABTYPE CLUSTERID

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

T\_ENABLE

TABLE

T\_ENABLE2

TABLE

T\_MINUS

TABLE

TNAME

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

TABTYPE CLUSTERID

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

T\_NOVA

TABLE

T\_NOVAILDATE

TABLE

T\_NOVALIDATE

TABLE

TNAME

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

TABTYPE CLUSTERID

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

T\_VAL

TABLE

T\_VALIDATE

TABLE

VIEW1

VIEW

TNAME

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

TABTYPE CLUSTERID

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

VIEW2

VIEW

VIEW3

VIEW

VT1

TABLE

TNAME

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

TABTYPE CLUSTERID

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

VT\_TEST

TABLE

V\_EMP1

VIEW

V\_EMP\_DEPT2

VIEW

72 rows selected.

**[문제3] PT1-14, 환경변수 설정후 SQL 결과 확인하기**

SQL> SET LINE 200

SQL> SET PAGESIZE 50

SQL> COL deptno FOR 999

SQL> COL dname FOR a15

SQL>

SQL> SELECT \* FROM dept;

DEPTNO DNAME LOC

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

90 Hardware Urgench

50 ????

60 DBLAB SOFT212

10 ACCOUNTING BUSAN

20 RESEARCH DALLAS

30 SALES CHICAGO

40 OPERATIONS BOSTON

80 AAA dddd

8 rows selected.

**[문제4] PT1-15, SQL 표현식 사용1**

SQL> SET pagesize 50

SQL> SELECT ename, 'good morning~~!' "GOOD Morning"

2 FROM emp;

ENAME GOOD Morning

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

KING good morning~~!

BLAKE good morning~~!

CLARK good morning~~!

JONES good morning~~!

SCOTT good morning~~!

FORD good morning~~!

SMITH good morning~~!

ALLEN good morning~~!

WARD good morning~~!

MARTIN good morning~~!

TURNER good morning~~!

ADAMS good morning~~!

JAMES good morning~~!

MILLER good morning~~!

Tiger good morning~~!

Tiger good morning~~!

Cat good morning~~!

17 rows selected.

**[문제5] PT1-16, SQL 표현식 사용2**

SQL> SELECT dname, ', it''s deptno : ', deptno "DNAME AND DEPTNO"

2 FROM dept;

DNAME ',IT''SDEPTNO:' DNAME AND DEPTNO

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

Hardware , it's deptno : 90

???? , it's deptno : 50

DBLAB , it's deptno : 60

ACCOUNTING , it's deptno : 10

RESEARCH , it's deptno : 20

SALES , it's deptno : 30

OPERATIONS , it's deptno : 40

AAA , it's deptno : 80

8 rows selected.

DNAME Q'[,IT'SDEPTNO:] DNAME AND DEPTNO

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

Hardware , it's deptno : 90

???? , it's deptno : 50

DBLAB , it's deptno : 60

ACCOUNTING , it's deptno : 10

RESEARCH , it's deptno : 20

SALES , it's deptno : 30

OPERATIONS , it's deptno : 40

AAA , it's deptno : 80

8 rows selected.

**[문제6] PT1-17, SQL에서 컬럼 별칭 사용**

SQL> SELECT empno "EMP'NO", ename as "EMP's NAME", sal emp\_SAL

2 FROM emp;

EMP'NO EMP's NAME EMP\_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

7876 ADAMS 1100

7900 JAMES 950

7934 MILLER 1300

1000 Tiger 3600

1000 Tiger 3600

2000 Cat 3000

17 rows selected.

**[문제7] PT1-20, SELECT에서 1번째 위치에서 DISTINCT 사용과 2번째 위치에서 DISTINCT 사용**

SQL> SELECT DISTINCT job, ename

2 FROM emp

3 ORDER BY 1, 2;

JOB ENAME

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

ANALYST FORD

ANALYST SCOTT

CLERK ADAMS

CLERK JAMES

CLERK MILLER

CLERK SMITH

MANAGER BLAKE

MANAGER CLARK

MANAGER JONES

PRESIDENT KING

SALESMAN ALLEN

SALESMAN MARTIN

SALESMAN TURNER

SALESMAN WARD

Cat

Tiger

16 rows selected.

SQL> SELECT job, DISTINCT ename

2 FROM emp

3 ORDER BY 1, 2;

SELECT job, DISTINCT ename

\*

ERROR at line 1:

ORA-00936: missing expression

**[문제8] PT1-24, SQL에서 연결연산자 사용1**

SQL> SELECT ename||'('||job||'), '||ename||''''||job||'''' "NAME AND JOB"

2 FROM emp;

NAME AND JOB

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

KING(PRESIDENT), KING'PRESIDENT'

BLAKE(MANAGER), BLAKE'MANAGER'

CLARK(MANAGER), CLARK'MANAGER'

JONES(MANAGER), JONES'MANAGER'

SCOTT(ANALYST), SCOTT'ANALYST'

FORD(ANALYST), FORD'ANALYST'

SMITH(CLERK), SMITH'CLERK'

ALLEN(SALESMAN), ALLEN'SALESMAN'

WARD(SALESMAN), WARD'SALESMAN'

MARTIN(SALESMAN), MARTIN'SALESMAN'

TURNER(SALESMAN), TURNER'SALESMAN'

NAME AND JOB

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

ADAMS(CLERK), ADAMS'CLERK'

JAMES(CLERK), JAMES'CLERK'

MILLER(CLERK), MILLER'CLERK'

Tiger(), Tiger''

Tiger(), Tiger''

Cat(), Cat''

17 rows selected.

**[문제9] PT1-25, SQL에서 연결연산자 사용2**

SQL> SELECT ename||'''s sal is $'||sal "Name and Sal"

2 FROM emp;

Name and Sal

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

KING's sal is $5000

BLAKE's sal is $2850

CLARK's sal is $2450

JONES's sal is $2975

SCOTT's sal is $3000

FORD's sal is $3000

SMITH's sal is $800

ALLEN's sal is $1600

WARD's sal is $1250

MARTIN's sal is $1250

TURNER's sal is $1500

Name and Sal

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

ADAMS's sal is $1100

JAMES's sal is $950

MILLER's sal is $1300

Tiger's sal is $3600

Tiger's sal is $3600

Cat's sal is $3000

17 rows selected.

**[문제10] PT1-34, BETWEEN에서 값의 크기에 대한 순서 변경에 따른 결과 확인**

SQL> SELECT empno, ename, sal

2 FROM emp

3 WHERE sal <= 2000

4 AND sal >= 3000;

no rows selected

**[문제11] PT1-37, LIKE 연산자에서 숫자를 적용한 예제 결과 확인**

SQL> SELECT empno, ename, sal

2 FROM emp

3 WHERE sal LIKE '1%';

EMPNO ENAME SAL

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

7499 ALLEN 1600

7521 WARD 1250

7654 MARTIN 1250

7844 TURNER 1500

7876 ADAMS 1100

7934 MILLER 1300

6 rows selected.

**[문제12] PT1-43, &기호 컬럼, 테이블에 적용하기**

SQL> SELECT empno, ename, sal

2 FROM emp

3 WHERE empno = &empno;

Enter value for empno: 7902

old 3: WHERE empno = &empno

new 3: WHERE empno = 7902

EMPNO ENAME SAL

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

7902 FORD 3000

SQL> SELECT empno, ename

2 FROM &table

3 WHERE sal = 3000;

Enter value for table: emp

old 2: FROM &table

new 2: FROM emp

EMPNO ENAME

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

7788 SCOTT

7902 FORD

2000 Cat

**[문제13] PT1-49, UNION, UNION ALL 의 EMP 테이블에서 적용하기**

SQL> SELECT empno, ename

2 FROM emp

3 WHERE deptno = 30

4 UNION

5 SELECT empno, ename

6 FROM emp

7 WHERE deptno = 20;

EMPNO ENAME

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

2000 Cat

7369 SMITH

7499 ALLEN

7521 WARD

7566 JONES

7654 MARTIN

7698 BLAKE

7788 SCOTT

7844 TURNER

7876 ADAMS

7900 JAMES

EMPNO ENAME

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

7902 FORD

12 rows selected.

SQL> SELECT empno, ename

2 FROM emp

3 WHERE deptno = 30

4 UNION ALL

5 SELECT empno, ename

6 FROM emp

7 WHERE deptno = 20;

EMPNO ENAME

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

7698 BLAKE

7499 ALLEN

7521 WARD

7654 MARTIN

7844 TURNER

7900 JAMES

2000 Cat

7566 JONES

7788 SCOTT

7902 FORD

7369 SMITH

EMPNO ENAME

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

7876 ADAMS

12 rows selected.

**[문제14] PT1-52, UNION, UNION ALL 의 EMP 테이블에서 적용하기(또는 EMP, DEPT 테이블를 사용해도 됨)**

SQL> SELECT empno, ename

2 FROM emp

3 UNION

4 SELECT deptno

5 FROM dept;

SELECT empno, ename

\*

ERROR at line 1:

ORA-01789: query block has incorrect number of result columns

SQL> SELECT empno, ename

2 FROM emp

3 UNION

4 SELECT dname, deptno

5 FROM dept;

SELECT empno, ename

\*

ERROR at line 1:

ORA-01790: expression must have same datatype as corresponding expression