# **■STEP1. BASIC**

### Q001

• 다음과 같이 테이블을 작성하시오.

```
Table EMP_DDL이(가) 생성되었습니다.
이름
       널? 유형
EMPNO
         NUMBER(4)
ENAME
        VARCHAR2(10)
JOB
       VARCHAR2(9)
MGR
        NUMBER(4)
HIREDATE DATE
SAL
       NUMBER(7,2)
COMM
         NUMBER(7,2)
DEPTNO
         NUMBER(2)
```

```
CREATE TABLE EMP_DDL(
   EMPNO
              NUMBER(4),
   ENAME
              VARCHAR2(10),
   JOB
              VARCHAR2(9),
   MGR
              NUMBER(4),
   HIREDATE
              DATE,
   SAL
              NUMBER(7,2),
   COMM
              NUMBER(7,2),
   DEPTNO
              NUMBER(2)
);
DESC EMP_DDL;
```

### Q002

• DEPT 테이블을 복사해 DEPT\_DDL 새테이블을 생성하시오.

```
Table DEPT_DDL이(가) 생성되었습니다.
이름 널? 유형
------
DEPTNO NUMBER(2)
DNAME VARCHAR2(14)
LOC VARCHAR2(13)
```

```
CREATE TABLE DEPT_DDL

AS SELECT * FROM DEPT;

DESC DEPT_DDL;
```

• DEPT DDL 테이블 전체를 조회하시오.

<b>⊕</b> D	EPTNO & DNAME	∯ LOC	
1	10 ACCOUNTING	NEW YORK	
2	20 RESEARCH	DALLAS	
3	30 SALES	CHICAGO	
4	40 OPERATIONS	BOSTON	

SELECT \* FROM DEPT\_DDL;

### Q004

• EMP 테이블에서 30번 부서의 일부데이터만 복사해 EMP\_DDL 새테이블을 생성하시오.

2 7654 MARTIN SALESMAN 7698 81/09/10 1250 1400 30 3 7499 ALLEN SALESMAN 7698 81/02/11 1600 300 30 4 7844 TURNER SALESMAN 7698 81/08/21 1500 0 30 5 7900 JAMES CLERK 7698 81/12/11 950 (null) 30		⊕ EMPNO ⊕ ENA	ME ∯ JOB	∯ MGR ∯ H	IIREDATE   ⊕ S	AL & COMM	
3 7499 ALLEN SALESMAN 7698 81/02/11 1600 300 30 4 7844 TURNER SALESMAN 7698 81/08/21 1500 0 30 5 7900 JAMES CLERK 7698 81/12/11 950 (null) 30	1	7698 BLAK	E MANAGE	R 783981,	/05/01 28	50 (null)	30
4 7844 TURNER SALESMAN 7698 81/08/21 1500 0 30 5 7900 JAMES CLERK 7698 81/12/11 950 (null) 30	2	7654 MAR	TIN SALESMA	N 7698 81,	/09/10 12	50 1400	30
5 7900 JAMES CLERK 7698 81/12/11 950 (null) 30	3	7499 ALLEN	N SALESMA	N 7698 81,	/02/11 16	300	30
75003711125 CEETIN 705001712711 550 (ITAII) 50	4	7844 TURN	IER SALESMA	N 769881,	/08/21 15	00 0	30
6 7521WARD SALESMAN 7698.81/02/23 1250 500 30	5	7900 JAME	S CLERK	7698 81,	/12/11 9	50 (null)	30
7321 VVAILD SALESIVIAIV 703001/02/23 1230 300 30	6	7521 WAR	SALESMA	N 7698 81,	/02/23 12	500	30

```
CREATE TABLE EMP_DDL_30

AS SELECT *

FROM EMP

WHERE DEPTNO = 30;

SELECT * FROM EMP_DDL_30;
```

• EMP, DEPT 테이블을 JOIN한 테이블의 열 구조만 복사해 EMPDEPT\_DDL 테이블을 작성하시오.

```
$ EMPNO |$ ENAME |$ JOB |$ MGR |$ HIREDATE |$ SAL |$ COMM |$ DEPTNO |$ DNAME |$ LOC

COMM |$ DEPTNO |$ DNAME |$ LOC
```

```
CREATE TABLE EMPDEPT_DDL

AS SELECT E.EMPNO, E.ENAME, E.JOB, E.MGR, E.HIREDATE,

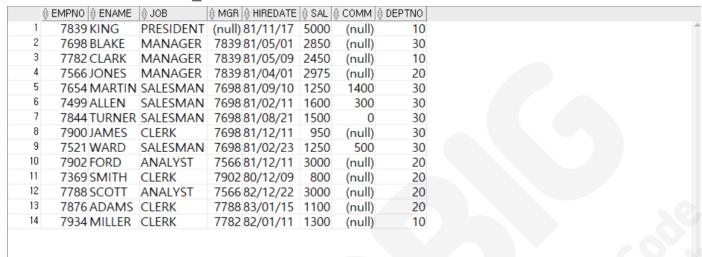
E.SAL, E.COMM, D.DEPTNO, D.DNAME, D.LOC

FROM EMP E, DEPT D

WHERE 1 <> 1;

SELECT * FROM EMPDEPT_DDL;
```

• EMP 테이블을 복사해 EMP ALTER테이블을 생성하시오.



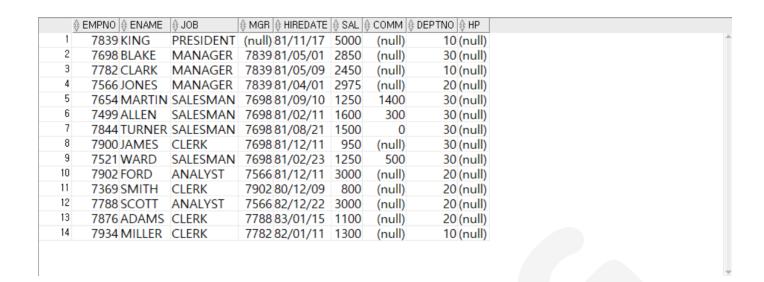
```
CREATE TABLE EMP_ALTER

AS SELECT * FROM EMP;
```

SELECT \* FROM EMP\_ALTER;

# Q007

• ALTER를 이용하여 EMP\_ALTER 테이블에 HP VARCHAR2(20) 열을 추가하시오.



```
ALTER TABLE EMP_ALTER

ADD HP VARCHAR2(20);

SELECT * FROM EMP_ALTER;
```

• ALTER를 이용하여 HP열 이름을 TEL로 변경하시오.

	⊕ EMPNO	⊕ ENAME	⊕ JOB		⊕ SAL	⊕ COMM	DEPTNO 🕀 TEL
1	7839	KING	<b>PRESIDENT</b>	(null) 81/11/17	5000	(null)	10 (null)
2	7698	BLAKE	MANAGER	7839 81/05/01	2850	(null)	30 (null)
3	7782	CLARK	MANAGER	7839 81/05/09	2450	(null)	10 (null)
4	7566.	JONES	MANAGER	7839 81/04/01	2975	(null)	20 (null)
5	7654	MARTIN	SALESMAN	7698 81/09/10	1250	1400	30 (null)
6	7499	ALLEN	SALESMAN	7698 81/02/11	1600	300	30 (null)
7	7844	TURNER	<b>SALESMAN</b>	7698 81/08/21	1500	0	30 (null)
8	7900	JAMES	CLERK	7698 81/12/11	950	(null)	30 (null)
9	7521	WARD	<b>SALESMAN</b>	7698 81/02/23	1250	500	30 (null)
10	7902	FORD	<b>ANALYST</b>	7566 81/12/11	3000	(null)	20 (null)
11	7369	SMITH	CLERK	7902 80/12/09	800	(null)	20 (null)
12	7788	SCOTT	ANALYST	7566 82/12/22	3000	(null)	20 (null)
13	7876	ADAMS	CLERK	7788 83/01/15	1100	(null)	20 (null)
14	79341	MILLER	CLERK	7782 82/01/11	1300	(null)	10 (null)

```
ALTER TABLE EMP_ALTER
RENAME COLUMN HP TO TEL;
SELECT * FROM EMP_ALTER;
```

• ALTER명령어로 EMPNO열 길이를 5로 변경하시오.

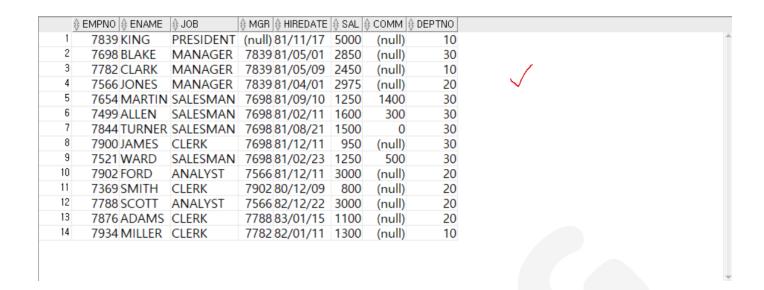
```
Table EMP_ALTER이(가) 변경되었습니다.
이름
       널? 유형
         NUMBER(5)
EMPNO
ENAME
        VARCHAR2(10)
JOB
       VARCHAR2(9)
MGR
        NUMBER(4)
HIREDATE DATE
SAL
      NUMBER(7,2)
COMM
        NUMBER(7,2)
DEPTNO
         NUMBER(2)
TEL
       VARCHAR2(20)
```

```
ALTER TABLE EMP_ALTER
MODIFY EMPNO NUMBER(5);

DESC EMP_ALTER;
```

### Q010

• ALTER명령어로 TEL열을 삭제하시오.



ALTER TABLE EMP\_ALTER DROP COLUMN TEL;

SELECT \* FROM EMP\_ALTER;

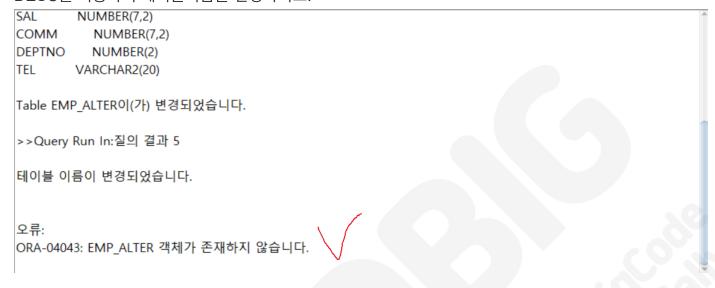
### Q011

• RENAME을 이용하여 테이블이름을 EMP RENAME으로 변경하시오.

```
JOB
        VARCHAR2(9)
MGR
         NUMBER(4)
HIREDATE DATE
SAL
        NUMBER(7,2)
COMM
          NUMBER(7,2)
DEPTNO
          NUMBER(2)
TEL
       VARCHAR2(20)
Table EMP_ALTER이(가) 변경되었습니다.
>>Query Run In:질의 결과 5
테이블 이름이 변경되었습니다.
```

RENAME EMP\_ALTER TO EMP\_RENAME;

• DESC를 이용하여 테이블이름을 변경하시오.



DESC EMP\_ALTER;

# Q013

• 변경된 테이블 EMP RENAME으로 조회하시오.

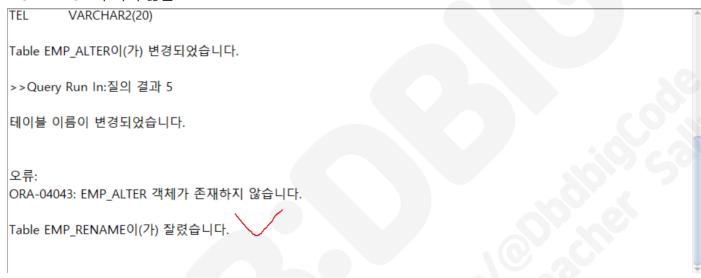
	⊕ EMPNO   ⊕ ENAME	<b></b> JOB		∯ SAL	⊕ COMM	DEPTNO
1	7839 KING	PRESIDENT	(null) 81/11/17	5000	(null)	10
2	7698 BLAKE	MANAGER	7839 81/05/01	2850	(null)	30
3	7782 CLARK	MANAGER	7839 81/05/09	2450	(null)	10
4	7566 JONES	MANAGER	7839 81/04/01	2975	(null)	20
5	7654 MARTIN	SALESMAN	7698 81/09/10	1250	1400	30
6	<b>7499 ALLEN</b>	SALESMAN	7698 81/02/11	1600	300	30
7	7844 TURNER	SALESMAN	7698 81/08/21	1500	0	30
8	7900 JAMES	CLERK	7698 81/12/11	950	(null)	30
9	7521 WARD	SALESMAN	7698 81/02/23	1250	500	30
10	7902 FORD	ANALYST	7566 81/12/11	3000	(null)	20
11	7369 SMITH	CLERK	7902 80/12/09	800	(null)	20
12	7788 SCOTT	ANALYST	7566 82/12/22	3000	(null)	20
13	7876 ADAMS	CLERK	7788 83/01/15	1100	(null)	20
14	7934 MILLER	CLERK	7782 82/01/11	1300	(null)	10

```
SELECT *
```

FROM EMP\_RENAME;

### Q014

- TRUNCATE를 이용하여 EMP\_RENAME의 모든데이터를 삭제하시오.
- ROLLBACK이 되지 않음!!!



TRUNCATE TABLE EMP\_RENAME;

### Q015

• DROP을 이용하여 TABLE을 삭제하시오.

>>Query Run In:질의 결과 5
테이블 이름이 변경되었습니다.
오류:
ORA-04043: EMP\_ALTER 객체가 존재하지 않습니다.
Table EMP\_RENAME이(가) 잘렸습니다.
Table EMP\_RENAME이(가) 삭제되었습니다.

DROP TABLE EMP\_RENAME;

### Q016

• EMP\_RENAME 테이블 구성을 살펴보시오.

테이블 이름이 변경되었습니다.

오류:

ORA-04043: EMP\_ALTER 객체가 존재하지 않습니다.

Table EMP\_RENAME이(가) 잘렸습니다.

Table EMP\_RENAME이(가) 삭제되었습니다.

오류:

ORA-04043: EMP\_RENAME 객체가 존재하지 않습니다.

DESC EMP\_RENAME;

### ■STEP2. EX

### **EX001**

• 다음 열구조를 가지는 EMP\_DDL\_TEST 테이블을 작성하시오.

```
Table EMP_DDL_TEST이(가) 생성되었습니다.
이름
       널? 유형
EMPNO
          NUMBER(4)
ENAME
         VARCHAR2(10)
JOB
        VARCHAR2(9)
MGR
         NUMBER(4)
HIREDATE DATE
SAL
        NUMBER(7,2)
COMM
          NUMBER(7,2)
DEPTNO
          NUMBER(2)
```

### **EX002**

• EMP\_DDL\_TEST 테이블에 AAA 열을 추가하시오, 가변형문자열, 길이는 20

```
Table EMP_DDL_TEST이(가) 변경되었습니다.
이름
       널? 유형
EMPNO
          NUMBER(4)
ENAME
         VARCHAR2(10)
JOB
        VARCHAR2(9)
MGR
         NUMBER(4)
HIREDATE DATE
SAL
        NUMBER(7,2)
COMM
          NUMBER(7,2)
DEPTNO
          NUMBER(2)
AAA
        VARCHAR2(20)
```

#### **EX003**

• AAA 열크기를 30으로 변경하시오.

```
Table EMP_DDL_TEST이(가) 변경되었습니다.
이름
       널? 유형
EMPNO
          NUMBER(4)
ENAME
         VARCHAR2(10)
JOB
        VARCHAR2(9)
MGR
         NUMBER(4)
HIREDATE DATE
SAL
        NUMBER(7,2)
COMM
          NUMBER(7,2)
DEPTNO
          NUMBER(2)
AAA
        VARCHAR2(30)
```

### **EX004**

• AAA 열이름을 REMARK로 변경하시오.

```
Table EMP_DDL_TEST이(가) 변경되었습니다.
이름
       널? 유형
EMPNO
          NUMBER(4)
ENAME
         VARCHAR2(10)
JOB
        VARCHAR2(9)
MGR
         NUMBER(4)
HIREDATE DATE
SAL
        NUMBER(7,2)
COMM
          NUMBER(7,2)
DEPTNO
          NUMBER(2)
REMARK
          VARCHAR2(30)
```

#### **EX005**

• EMP\_DDL\_TEST 테이블에 EMP테이블의 데이터를 모두 저장하시오.REMARK는 NULL로 삽입하시오.

4	EMPNO ⊕ ENAME	⊕ JOB		∯ SAL	⊕ СОММ (	DEPTNO 🕀 REMARK
1	7839 KING	PRESIDENT	(null) 81/11/17	5000	(null)	10 (null)
2	7698 BLAKE	MANAGER	7839 81/05/01	2850	(null)	30 (null)
3	7782 CLARK	MANAGER	7839 81/05/09	2450	(null)	10 (null)
4	7566 JONES	MANAGER	7839 81/04/01	2975	(null)	20 (null)
5	7654 MARTIN	SALESMAN	7698 81/09/10	1250	1400	30 (null)
6	<b>7499 ALLEN</b>	SALESMAN	7698 81/02/11	1600	300	30 (null)
7	7844 TURNER	SALESMAN	7698 81/08/21	1500	0	30 (null)
8	7900 JAMES	CLERK	7698 81/12/11	950	(null)	30 (null)
9	7521 WARD	SALESMAN	7698 81/02/23	1250	500	30 (null)
10	7902 FORD	ANALYST	7566 81/12/11	3000	(null)	20 (null)
11	7369 SMITH	CLERK	7902 80/12/09	800	(null)	20 (null)
12	7788 SCOTT	ANALYST	7566 82/12/22	3000	(null)	20 (null)
13	7876 ADAMS	CLERK	7788 83/01/15	1100	(null)	20 (null)
14	7934 MILLER	CLERK	7782 82/01/11	1300	(null)	10 (null)

# **EX006**

• EMP\_DDL\_TEST 테이블을 삭제하시오.

JOB VARCHAR2(9) MGR NUMBER(4) HIREDATE DATE NUMBER(7,2) SAL COMM NUMBER(7,2) DEPTNO NUMBER(2) REMARK VARCHAR2(30) 14개 행 이(가) 삽입되었습니다. >>Query Run In:질의 결과 6 Table EMP\_DDL\_TEST이(가) 삭제되었습니다