

■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;
```

Q003

- DEPT_DDL 테이블 전체를 조회하시오.

DEPTNO	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.

	EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
1	7698	BLAKE	MANAGER	7839	81/05/01	2850	(null)	30
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
6	7521	WARD	SALESMAN	7698	81/02/23	1250	500	30

```
CREATE TABLE EMP_DDL_30
AS SELECT *
FROM EMP
WHERE DEPTNO = 30;

SELECT * FROM EMP_DDL_30;
```

Q005

- EMP, DEPT 테이블을 JOIN한 테이블의 열 구조만 복사해 EMPDEPT_DDL 테이블을 작성하시오.

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	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;
```

Q006

- EMP 테이블을 복사해 EMP_ALTER테이블을 생성하시오.

	EMPNO	ENAME	JOB	MGR	HIREDATE	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	7499	ALLEN	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

```
CREATE TABLE EMP_ALTER
AS SELECT * FROM EMP;
```

```
SELECT * FROM EMP_ALTER;
```

Q007

- ALTER를 이용하여 EMP_ALTER 테이블에 HP VARCHAR2(20) 열을 추가하시오.

	EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO	HP
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	7499	ALLEN	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)

ALTER TABLE EMP ALTER

ADD HP VARCHAR2(20);

SELECT * FROM EMP ALTER;

Q008

- ALTER를 이용하여 HP 열 이름을 TEL로 변경하시오.

	EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO	TEL
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	7499	ALLEN	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)

```
ALTER TABLE EMP ALTER
RENAME COLUMN HP TO TEL;

SELECT * FROM EMP ALTER;
```

Q009

- ALTER 명령어로 EMPNO 열 길이를 5로 변경하시오.

Table EMP ALTER이(가) 변경되었습니다.

이름	널? 유형
EMPNO	NUMBER(5)
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

- ALTER 명령어로 TEL 열을 삭제하시오.

	EMPNO	ENAME	JOB	MGR	HIREDATE	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	7499	ALLEN	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



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;

Q012

- DESC를 이용하여 테이블이름을 변경하시오.

```
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.

오류:

ORA-04043: EMP_ALTER 객체가 존재하지 않습니다.

DESC EMP_ALTER;

Q013

- 변경된 테이블 EMP_RENAME으로 조회하시오.

	EMPNO	ENAME	JOB	MGR	HIREDATE	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	7499	ALLEN	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!!!

```
TEL      VARCHAR2(20)  
  
Table EMP_ALTER이(가) 변경되었습니다.  
  
>>Query Run In:질의 결과 5  
  
테이블 이름이 변경되었습니다.  
  
오류:  
ORA-04043: EMP_ALTER 객체가 존재하지 않습니다.  
  
Table EMP_RENAME이(가) 잘렸습니다. ✓
```

```
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 살펴보세요.

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)
<u>AAA</u>	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	<u>VARCHAR2(30)</u>

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)
<u>REMARK</u>	<u>VARCHAR2(30)</u>

EX005

- EMP_DDL_TEST 테이블에 EMP테이블의 데이터를 모두 저장하시오.REMARK는 NULL로 삽입하시오.

	EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	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	7499	ALLEN	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
SAL      NUMBER(7,2)
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. ✓