REPORT

-- 12-1) 모든 열의 각 자료형을 정의해서 테이블 생성하기

CREATE TABLE EMP_DDL(

     EMPNO   NUMBER(4),

     ENNAME   VARCHAR2(10),

     JOB   VARCHAR2(9),

     MGR   NUMBER(4),

     HIREDATE   DATE,

     SAL   NUMBER(7,2),

     COMM   NUMBER(7,2),

     DEPTNO   NUMBER(2)

);

DESC EMP_DDL;

```
이름          널? 유형
--------  --  ------------
EMPNO          NUMBER(4)
ENNAME         VARCHAR2(10)
JOB            VARCHAR2(9)
MGR            NUMBER(4)
HIREDATE       DATE
SAL            NUMBER(7,2)
COMM           NUMBER(7,2)
DEPTNO         NUMBER(2)
```

-- 12-2) 다른 테이블을 복사하여 테이블 생성하기

CREATE TABLE DEPT_DDL AS SELECT * FROM DEPT;

DESC DEPT_DDL;

```
이름      널? 유형
------  --  ------------
DEPTNO      NUMBER(2)
DNAME       VARCHAR2(14)
LOC         VARCHAR2(13)
```

-- 12-3) DEPT_DDL 테이블 전체 조회하기

SELECT * FROM DEPT_DDL;

	DEPTNO	DNAME	LOC
1	10	ACCOUNTING	NEW YORK
2	20	RESEARCH	DALLAS
3	30	SALES	CHICAGO
4	40	OPERATIONS	BOSTON

-- 12-4) 다른 테이블의 일부를 복사하여 테이블 생성하기

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

SELECT * FROM EMP_DDL_30;

	EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
1	7499	ALLEN	SALESMAN	7698	1981/02/20	1600	300	30
2	7521	WARD	SALESMAN	7698	1981/02/22	1250	500	30
3	7654	MARTIN	SALESMAN	7698	1981/09/28	1250	1400	30
4	7698	BLAKE	MANAGER	7839	1981/05/01	2850	(null)	30
5	7844	TURNER	SALESMAN	7698	1981/09/08	1500	0	30
6	7900	JAMES	CLERK	7698	1981/12/03	950	(null)	30

-- 12-5) 다른 테이블을 복사하여 테이블 생성하기(열 구조만 복사하기)

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;

EMPNO	ENAME	JOB	MGR	HIRED...	SAL	COMM	DEPTNO	DNAME	LOC

-- 12-6) EMP 테이블을 복사하여 EMP_ALTER 테이블 생성하기

CREATE TABLE EMP_ALTER AS SELECT * FROM EMP;

SELECT * FROM EMP_ALTER;

	EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7	7782 CLARK		MANAGER	7839	1981/06/09	2450	(null)	10
8	7788	SCOTT	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

-- 12-7) ALTER 명령어로 HP 열 추가하기

ALTER TABLE EMP_ALTER ADD HP VARCHAR2(20);

SELECT * FROM EMP_ALTER;

	EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO	HP
7	7782 CLARK		MANAGER	7839	1981/06/09	2450	(null)	10	(null)
8	7788	SCOTT	ANALYST	7566	1982/12/09	3000	(null)	20	(null)
9	7839	KING	PRESIDENT	(null)	1981/11/17	5000	(null)	10	(null)
10	7844	TURNER	SALESMAN	7698	1981/09/08	1500	0	30	(null)
11	7876	ADAMS	CLERK	7788	1983/01/12	1100	(null)	20	(null)
12	7900	JAMES	CLERK	7698	1981/12/03	950	(null)	30	(null)
13	7902	FORD	ANALYST	7566	1981/12/03	3000	(null)	20	(null)
14	7934	MILLER	CLERK	7782	1982/01/23	1300	(null)	10	(null)

-- 12-8) ALTER 명령어로 HP 열 이름을 TEL로 변경하기

ALTER TABLE EMP_ALTER RENAME COLUMN HP TO TEL;

SELECT * FROM EMP_ALTER;

	EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO	TEL
7	7782 CLARK		MANAGER	7839	1981/06/09	2450	(null)	10	(null)
8	7788	SCOTT	ANALYST	7566	1982/12/09	3000	(null)	20	(null)
9	7839	KING	PRESIDENT	(null)	1981/11/17	5000	(null)	10	(null)
10	7844	TURNER	SALESMAN	7698	1981/09/08	1500	0	30	(null)
11	7876	ADAMS	CLERK	7788	1983/01/12	1100	(null)	20	(null)
12	7900	JAMES	CLERK	7698	1981/12/03	950	(null)	30	(null)
13	7902	FORD	ANALYST	7566	1981/12/03	3000	(null)	20	(null)
14	7934	MILLER	CLERK	7782	1982/01/23	1300	(null)	10	(null)

-- 12-9) ALTER 명령어로 EMPNO 열 길이 변경하기

ALTER TABLE EMP_ALTER MODIFY EMPNO NUMBER(5);

DESC EMP_ALTER;

```
이름          널? 유형           이름       널?       유형
_____ __ _____   _____ _____ _____
EMPNO          NUMBER(4)    EMPNO    NOT NULL NUMBER(5)
```

-- 12-10) ALTER 명령어로 TEL 열 삭제하기

ALTER TABLE EMP_ALTER DROP COLUMN TEL;

SELECT * FROM EMP_ALTER;

	EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7	7782 CLARK	MANAGER	7839	1981/06/09	2450	(null)	10
8	7788	SCOTT	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

-- 12-11) 테이블 이름 변경하기

RENAME EMP_ALTER TO EMP_RENAME;

테이블 이름이 변경되었습니다.

-- 12-12) 바꾸기 전 이름을 테이블 구성 살펴보기

DESC EMP_ALTER;

```
오류:
ORA-04043: EMP_ALTER 객체가 존재하지 않습니다.
```

-- 12-13) 변경된 테이블이름(EMP_RENAME)으로 조회

SELECT * FROM EMP_RENAME;

	EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7	7782 CLERK		ANAGER	7839 1981/06/09		2450	(null)	10
8	7788	SCOTT	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

-- 12-14) EMP_RENAME 테이블의 전체 데이터 삭제하기

TRUNCATE TABLE EMP_RENAME;

SELECT * FROM EMP_RENAME;

EMPNO	ENAME	JOB	MGR	HIRED...	SAL	COMM	DEPTNO

-- 12-15) EMP_RENAME 테이블 삭제하기

DROP TABLE EMP_RENAME;

Table EMP_RENAME이(가) 삭제되었습니다.

-- 12-16) EMP_RENAME 테이블 구성 살펴보기

DESC EMP_RENAME;

오류:
ORA-04043: EMP_RENAME 객체가 존재하지 않습니다.