REPORT



과 목 : 데이터베이스이론및실습

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학 과: 정보통신공학과

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이 름: 김행복

-- 10-1) DEPT 테이블을 복사해서 DEPT_TEMP 테이블 만들기

CREATE TABLE DEPT_TEMP AS SELECT * FROM DEPT;

Table DEPT_TEMP이(가) 생성되었습니다.

-- 10-2) DEPT_TEMP 테이블 전체 열 조회하기

SELECT * FROM DEPT_TEMP;

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

-- 10-3) DEPT_TEMP 테이블에 데이터 추가하기

INSERT INTO DEPT_TEMP(DEPTNO, DNAME, LOC) VALUES (50, 'DATABASE', 'SEOUL');

SELECT * FROM DEPT_TEMP;

	⊕ DEPTNO	♦ DNAME	 LOC
1	10	ACCOUNTING	NEW YORK
2	20	RESEARCH	DALLAS
3	30	SALES	CHICAGO
4	40	OPERATIONS	BOSTON
5	50	DATABASE	SE0UL

-- 10-4) INSERT문에 열 지정 없이 데이터 추가하기

INSERT INTO DEPT_TEMP VALUES(60, 'NETWROK', 'BUSAN');

SELECT * FROM DEPT_TEMP;

	♦ DEPTNO	♦ DNAME	∯ LOC
1	10	ACCOUNTING	NEW YORK
2	20	RESEARCH	DALLAS
3	30	SALES	CHICAGO
4	40	OPERATIONS	BOSTON
5	50	DATABASE	SE0UL
6	60	NETWROK	BUSAN

-- 10-5) NULL을 지정하여 입력하기

INSERT INTO DEPT_TEMP(DEPTNO, DNAME, LOC) VALUES(70, 'WEB', NULL);

SELECT * FROM DEPT_TEMP;

	⊕ DEPTNO	♦ DNAME	\$ LOC
1	10	ACCOUNTING	NEW YORK
2	20	RESEARCH	DALLAS
3	30	SALES	CHICAGO
4	40	OPERATIONS	BOSTON
5	50	DATABASE	SE0UL
6	60	NETWR0K	BUSAN
7	70	WEB	(null)

-- 10-6) 빈 공백 문자열로 NULL을 입력하기

INSERT INTO DEPT_TEMP(DEPTNO, DNAME, LOC) VALUES(80, 'MOMILE', ");

SELECT * FROM DEPT_TEMP;

		♦ DNAME	∯ LOC
2	20	RESEARCH	DALLAS
3	30	SALES	CHICAGO
4	40	OPERATIONS	BOSTON
5	50	DATABASE	SE0UL
6	60	NETWR0K	BUSAN
7	70	WEB	(null)
8	80	MOMILE	(null)

-- 10-7) 열 데이터를 넣지 않는 방식으로 NULL 데이터 입력하기

INSERT INTO DEPT_TEMP(DEPTNO, LOC) VALUES(80, 'INCHEON');

SELECT * FROM DEPT_TEMP;

	DEPTNO	♦ DNAME	∯ LOC
3	30	SALES	CHICAGO
4	40	OPERATIONS	B0ST0N
5	50	DATABASE	SE0UL
6	60	NETWR0K	BUSAN
7	70	WEB	(null)
8	80	MOMILE	(null)
9	80	(null)	INCHEON

-- 10-8) EMP 테이블을 복사해서 EMP_TEMP 테이블 만들기

CREATE TABLE EMP_TEMP AS SELECT * FROM EMP;

SELECT * FROM EMP_TEMP;

,	⊕ EMPNO	⊕ ENAME	₿ ЈОВ	∯ MGR	∯ HIREDATE	♦ SAL	⊕ COMM	∯ DEPTNO
8	7788	SC0TT	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

-- 10-9) INSERT문으로 날짜 데이터 입력하기(날짜 사이에 / 입력)

INSERT INTO EMP_TEMP(EMPNO, ENAME, JOB, MGR, HIREDATE, SAL, COMM, DEPTNO)

VALUES(9999, '홍길동', 'PRESIDENT', NULL, '2001/01/01', 5000, 1000, 10);

SELECT * FROM EMP_TEMP;

	⊕ EMPNO	⊕ ENAME	♦ JOB	∯ MGR	♦ HIREDATE	♦ SAL	⊕ COMM	DEPTNO
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
15	9999	홍길동	PRESIDENT	(null)	2001/01/01	5000	1000	10

-- 10-10) INSERT문으로 날짜 데이터 입력하기(날짜 사이에 - 입력)

INSERT INTO EMP_TEMP(EMPNO, ENAME, JOB, MGR, HIREDATE, SAL, COMM, DEPTNO)

VALUES(1111, '성춘향', 'MANAGER', 9999, '2001-01-15', 4000, NULL, 20);

SELECT * FROM EMP_TEMP;

	⊕ EMPNO	\$ ENAME	₿ JOB	₩ MGR	♦ HIREDATE	₿ SAL	⊕ COMM	
,	, 000	11110	TILLSTPLIT	(114 00)	1001, 11, 1,	- 5000	(114 00)	
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
15	9999	홍길동	PRESIDENT	(null)	2001/01/01	5000	1000	10
16	1111	성춘향	MANAGER	9999	2001/01/15	4000	(null)	20

-- 10-11) 날짜 데이터 형식을 반대로 했을 때

INSERT INTO EMP_TEMP(EMPNO, ENAME, JOB, MGR, HIREDATE, SAL, COMM, DEPTNO)

VALUES(2111, '이순신', 'MANAGER', 9999, '07/01/2001', 4000, NULL, 20);

-- 10-12) 날짜 데이터 형식을 반대로 했을 때

INSERT INTO EMP TEMP(EMPNO, ENAME, JOB, MGR, HIREDATE, SAL, COMM, DEPTNO)

VALUES(2111, '이순신', 'MANAGER', 9999, TO_DATE('07/01/2001', 'DD/MM/YYYY'), 4000,

NULL, 20);

SELECT * FROM EMP_TEMP;

	♦ EMPNO	♦ ENAME		♦ MGR	♦ HIREDATE	♦ SAL	⊕ сомм	DEPTNO □
10	,,,,	TOTALL	J/12251744	, 050	1301, 03, 00	1500	v	
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
15	9999	홍길동	PRESIDENT	(null)	2001/01/01	5000	1000	10
16	1111	성춘향	MANAGER	9999	2001/01/15	4000	(null)	20
17	2111	이순신	MANAGER	9999	2001/01/07	4000	(null)	20

-- 10-13) SYSDATE를 사용하여 날짜 데이터 입력하기

INSERT INTO EMP_TEMP (EMPNO, ENAME, JOB, MGR, HIREDATE, SAL, COMM, DEPTNO)

VALUES(3111, '심청이', 'MANAGER', 9999, SYSDATE, 4000, NULL, 30);

SELECT * FROM EMP_TEMP;

	\$ EM 	⊕ ENAME	₿ ЈОВ	∯ MGR	∯ HIREDA	TE \$ SAL	⊕ СОММ	♦ DEPTNO
	,,,,,	,,,,,,,	CLLIN	,,,,,,	1000, 01,	1100	(114 00)	
12	7900	JAMES	CLERK	7698	1981/12/0	950	(null)	30
13	7902	FORD	ANALYST	7566	1981/12/0	3000	(null)	20
14	7934	MILLER	CLERK	7782	1982/01/2	23 1300	(null)	10
15	9999	홍길동	PRESIDENT	(null)	2001/01/0	5000	1000	10
16	1111	성춘향	MANAGER	9999	2001/01/	L5 4000	(null)	20
17	2111	이순신	MANAGER	9999	2001/01/0	4000	(null)	20
18	3111	심청이	MANAGER	9999	2024/04/0	98 4000	(null)	30

-- 10-14) 서브쿼리로 여러 데이터 추가하기

INSERT INTO EMP_TEMP (EMPNO, ENAME, JOB, MGR, HIREDATE, SAL, COMM, DEPTNO)

SELECT E.EMPNO, E.ENAME, E.JOB, E.MGR, E.HIREDATE, E.SAI, E.COMM, E.DEPTNO

FROM EMP E, SALGRADE S

WHERE E.SAL BETWEEN S.LOSAL AND S.HISAL

AND S.GRADE = 1;

SELECT * FROM EMP_TEMP;

	⊕ EMPNO	♦ ENAME	∜ JOB	∯ MGR	HIREDATE	♦ SAL	⊕ COMM	
1-1							(Hace)	
15	9999	홍길동	PRESIDENT	(null)	2001/01/01	5000	1000	10
16	1111	성춘향	MANAGER	9999	2001/01/15	4000	(null)	20
17	2111	이순신	MANAGER	9999	2001/01/07	4000	(null)	20
18	3111	심청이	MANAGER	9999	2024/04/08	4000	(null)	30
19	7369	SMITH	CLERK	7902	1980/12/17	800	(null)	20
20	7876	ADAMS	CLERK	7788	1983/01/12	1100	(null)	20
21	7900	JAMES	CLERK	7698	1981/12/03	950	(null)	30

-- 10-15) DEPT 테이블을 복사해서 DEPT_TEMP2 테이블 만들기

CREATE TABLE DEPT_TEMP2 AS SELECT * FROM DEPT;

SELECT * FROM DEPT_TEMP2;

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

-- 10-16) DEPT_TEMP2 테이블 업데이트하기

UPDATE DEPT_TEMP2 SET LOC = 'SEOUL';

SELECT * FROM DEPT_TEMP2;

	♦ DEPTNO	♦ DNAME	∯ LOC
1	10	ACCOUNTING	SE0UL
2	20	RESEARCH	SE0UL
3	30	SALES	SE0UL
4	40	OPERATIONS	SE0UL

-- 10-17) ROLLBACK으로 테이블 내용을 이전 상태로 되돌리기

ROLLBACK;

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

-- 10-18) 테이블 데이터 중 일부분만 수정하기

UPDATE DEPT_TEMP2 SET DNAME = 'DATABASE', LOC = 'SEOUL' WHERE DEPTNO = 40;

SELECT * FROM DEPT_TEMP2;

	♦ DEPTNO	♦ DNAME	∯ LOC
1	10	ACCOUNTING	NEW YORK
2	20	RESEARCH	DALLAS
3	30	SALES	CHICAGO
4	40	DATABASE	SE0UL

-- 10-19) 서브쿼리로 데이터 일부분 수정하기

UPDATE DEPT_TEMP2 SET (DNAME, LOC) = (SELECT DNAME, LOC FROM DEPT WHERE DEPTNO = 40) WHERE DEPTNO = 40;

SELECT * FROM DEPT_TEMP2;

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

-- 10-20) 서브쿼리로 데이터 일부분 수정하기

UPDATE DEPT_TEMP2 SET DNAME = (SELECT DNAME FROM DEPT WHERE DEPTNO = 40),

LOC = (SELECT LOC FROM DEPT WHERE DEPTNO = 40)

WHERE DEPTNO = 40;

SELECT * FROM DEPT_TEMP2;

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

-- 10-21) UPDATE문의 WHERE 절에 서브쿼리 사용하기

UPDATE DEPT_TEMP2 SET LOC = 'SEOUL' WHERE DEPTNO = (SELECT DEPTNO FROM DEPT_TEMP2 WHERE DNAME = 'OPERATIONS');

SELECT * FROM DEPT_TEMP2;

	♦ DEPTNO	♦ DNAME	∯ LOC
1	10	ACCOUNTING	NEW YORK
2	20	RESEARCH	DALLAS
3	30	SALES	CHICAGO
4	40	OPERATIONS	SE0UL

-- 10-22) EMP테이블을 복사해서 EMP_TMEP2 테이블 만들기

CREATE TABLE EMP_TEMP2 AS SELECT * FROM EMP;

SELECT * FROM EMP_TEMP2;

:	⊕ EMPNO	⊕ ENAME	∯ ЈОВ	∯ MGR	♦ HIREDATE	₿ SAL	⊕ СОММ	♦ DEPTNO
,				-, 555	1301, 00, 03	2.50	(114)	
8	7788	SC0TT	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

-- 10-23 WHERE 절을 사용하여 데이터 일부분만 삭제하기

DELETE FROM EMP_TEMP2 WHERE JOB = 'MANAGER';

SELECT * FROM EMP_TEMP2;

_	∯ EM	♦ ENAME	∮ ЈОВ	∯ MGR	∯ HIREDATE	♦ SAL	⊕ СОММ	
5	7788	SC0TT	ANALYST	7566	1982/12/09	3000	(null)	20
6	7839	KING	PRESIDENT	(null)	1981/11/17	5000	(null)	10
7	7844	TURNER	SALESMAN	7698	1981/09/08	1500	0	30
8	7876	ADAMS	CLERK	7788	1983/01/12	1100	(null)	20
9	7900	JAMES	CLERK	7698	1981/12/03	950	(null)	30
10	7902	FORD	ANALYST	7566	1981/12/03	3000	(null)	20
11	7934	MILLER	CLERK	7782	1982/01/23	1300	(null)	10

-- 10-24) WHERE절에 서브쿼리를 사용하여 데이터 일부만 삭제하기

DELETE FROM EMP_TEMP2 WHERE EMPNO IN (SELECT E.EMPNO FROM EMP_TEMP2 E, SALGRADE S

WHERE E.SAL BETWEEN S.LOSAL AND S.HISAL

AND S.GRADE = 3 AND DEPTNO =30);

SELECT * FROM EMP_TEMP2;

	⊕ EMPNO	♦ ENAME		∯ MGR	♦ HIREDATE		⊕ СОММ	♦ DEPTNO
	, 521	117 ti to	J/ (LLJ) // 44	, 050	1301, 02, 22	1230	500	50
3	7654	MARTIN	SALESMAN	7698	1981/09/28	1250	1400	30
4	7788	SC0TT	ANALYST	7566	1982/12/09	3000	(null)	20
5	7839	KING	PRESIDENT	(null)	1981/11/17	5000	(null)	10
6	7876	ADAMS	CLERK	7788	1983/01/12	1100	(null)	20
7	7900	JAMES	CLERK	7698	1981/12/03	950	(null)	30
8	7902	FORD	ANALYST	7566	1981/12/03	3000	(null)	20
9	7934	MILLER	CLERK	7782	1982/01/23	1300	(null)	10

-- 10-25) 테이블에 있는 전체 데이터 삭제하기

DELETE FROM EMP_TEMP2;

SELECT * FROM EMP_TEMP2;

A	A	A	A	A	A	A	A.
♦ EMPNO		I ∰ I ∩ D	A MCD	4 LIDED	⊕ C A I	⊕ СОММ	I DEDTNI
# EIVIPINO	IN CINAIVIC	I WE I COD	THE IVICIA	I TO THE TOTAL	I₩ SAL	THE COMMO	THE DEPTINE
y	Y	Y 3	Ψ	Y	Y	γ • • • • • • • • • • • • • • • • • • •	V