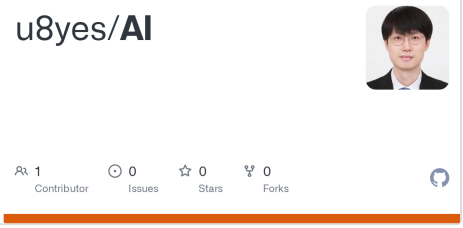
Day70; 20221215

날짜	@2022년 12월 15일
유형	@2022년 12월 15일
태그	

GitHub - u8yes/AI

You can't perform that action at this time. You signed in with another tab or window. You signed out in another tab or window. Reload to refresh your session. Reload to refresh your session.

https://github.com/u8yes/ai



https://s3-us-west-2.amazonaws.com/secure.notion-static.com/da711ec1-eeaa-4788-81b0-233b2a957fa0/scott.sql

https://s3-us-west-2.amazonaws.com/secure.notion-static.com/be18b495-67b5-463a-9ece-9877d20f476a/%EC%A1%B0%EC%9D%B8.pdf

```
Rem Copyright (c) 1990 by Oracle Corporation
Rem NAME
REM    UTLSAMPL.SQL
```

```
Rem  FUNCTION
Rem  NOTES
Rem  MODIFIED
Rem gdudey     06/28/95 -  Modified for desktop seed database
Rem glumpkin   10/21/92 -  Renamed from SQLBLD.SQL
Rem blinden   07/27/92 -  Added primary and foreign keys to EMP and DEPT
Rem rlim     04/29/91 -       change char to varchar2
Rem mmoore     04/08/91 -       use unlimited tablespace priv
Rem pritto     04/04/91 -       change SYSDATE to 13-JUL-87
Rem   Mendels  12/07/90 - bug 30123;add to_date calls so language independent
Rem
rem
rem $Header: utlsampl.sql 7020100.1 94/09/23 22:14:24 cli Generic<base> $ sqlbld.sql
rem
SET TERMOUT OFF
SET ECHO OFF

rem CONGDON    Invoked in RDBMS at build time.   29-DEC-1988
rem OATES:     Created: 16-Feb-83

GRANT CONNECT,RESOURCE,UNLIMITED TABLESPACE TO SCOTT IDENTIFIED BY TIGER;
ALTER USER SCOTT DEFAULT TABLESPACE USERS;
ALTER USER SCOTT TEMPORARY TABLESPACE TEMP;
CONNECT SCOTT/TIGER
DROP TABLE DEPT;
CREATE TABLE DEPT
       (DEPTNO NUMBER(2) CONSTRAINT PK_DEPT PRIMARY KEY,
  DNAME VARCHAR2(14) ,
  LOC VARCHAR2(13) ) ;
DROP TABLE EMP;
CREATE TABLE EMP
       (EMPNO NUMBER(4) CONSTRAINT PK_EMP PRIMARY KEY,
  ENAME VARCHAR2(10),
  JOB VARCHAR2(9),
  MGR NUMBER(4),
  HIREDATE DATE,
  SAL NUMBER(7,2),
  COMM NUMBER(7,2),
  DEPTNO NUMBER(2) CONSTRAINT FK_DEPTNO REFERENCES DEPT);
INSERT INTO DEPT VALUES
  (10,'ACCOUNTING','NEW YORK');
INSERT INTO DEPT VALUES (20,'RESEARCH','DALLAS');
INSERT INTO DEPT VALUES
  (30,'SALES','CHICAGO');
INSERT INTO DEPT VALUES
  (40,'OPERATIONS','BOSTON');
INSERT INTO EMP VALUES
(7369,'SMITH','CLERK',7902,to_date('17-12-1980','dd-mm-yyyy'),800,NULL,20);
INSERT INTO EMP VALUES
(7499,'ALLEN','SALESMAN',7698,to_date('20-2-1981','dd-mm-yyyy'),1600,300,30);
INSERT INTO EMP VALUES
(7521,'WARD','SALESMAN',7698,to_date('22-2-1981','dd-mm-yyyy'),1250,500,30);
INSERT INTO EMP VALUES
(7566,'JONES','MANAGER',7839,to_date('2-4-1981','dd-mm-yyyy'),2975,NULL,20);
INSERT INTO EMP VALUES
(7654,'MARTIN','SALESMAN',7698,to_date('28-9-1981','dd-mm-yyyy'),1250,1400,30);
INSERT INTO EMP VALUES
(7698,'BLAKE','MANAGER',7839,to_date('1-5-1981','dd-mm-yyyy'),2850,NULL,30);
```

```
INSERT INTO EMP VALUES
(7782,'CLARK','MANAGER',7839,to_date('9-6-1981','dd-mm-yyyy'),2450,NULL,10);
INSERT INTO EMP VALUES
(7788,'SCOTT','ANALYST',7566,to_date('13-7-1987','dd-mm-yyyy'),3000,NULL,20);
INSERT INTO EMP VALUES
(7839,'KING','PRESIDENT',NULL,to_date('17-11-1981','dd-mm-yyyy'),5000,NULL,10);
INSERT INTO EMP VALUES
(7844,'TURNER','SALESMAN',7698,to_date('8-9-1981','dd-mm-yyyy'),1500,0,30);
INSERT INTO EMP VALUES
(7876,'ADAMS','CLERK',7788,to_date('13-7-1987','dd-mm-yyyy'),1100,NULL,20);
INSERT INTO EMP VALUES
(7900,'JAMES','CLERK',7698,to_date('3-12-1981','dd-mm-yyyy'),950,NULL,30);
INSERT INTO EMP VALUES
(7902,'FORD','ANALYST',7566,to_date('3-12-1981','dd-mm-yyyy'),3000,NULL,20);
INSERT INTO EMP VALUES
(7934,'MILLER','CLERK',7782,to_date('23-1-1982','dd-mm-yyyy'),1300,NULL,10);
DROP TABLE BONUS;
CREATE TABLE BONUS
  (
  ENAME VARCHAR2(10)  ,
  JOB VARCHAR2(9)  ,
  SAL NUMBER,
  COMM NUMBER
  ) ;
DROP TABLE SALGRADE;
CREATE TABLE SALGRADE
      ( GRADE NUMBER,
  LOSAL NUMBER,
  HISAL NUMBER );
INSERT INTO SALGRADE VALUES (1,700,1200);
INSERT INTO SALGRADE VALUES (2,1201,1400);
INSERT INTO SALGRADE VALUES (3,1401,2000);
INSERT INTO SALGRADE VALUES (4,2001,3000);
INSERT INTO SALGRADE VALUES (5,3001,9999);
COMMIT;

SET TERMOUT ON
SET ECHO ON
```

```
--- (1) cross join
select * from emp, dept; --- deptno 기준으로 정렬됨.
```

Status | Result1

JOB	MGR	HIREDATE	SAL	COMM	DEPTNO	DEPTNO	DN
CLERK	7902	1980-12-1...	800	NULL	20	10	AC
SALE...	7698	1981-02-2...	1600	300	30	10	AC
SALE...	7698	1981-02-2...	1250	500	30	10	AC
MAN...	7839	1981-04-0...	2975	NULL	20	10	AC
SALE...	7698	1981-09-2...	1250	1400	30	10	AC
MAN...	7839	1981-05-0...	2850	NULL	30	10	AC
MAN...	7839	1981-06-0...	2450	NULL	10	10	AC
ANA...	7566	1987-07-1...	3000	NULL	20	10	AC
PRES...	NULL	1981-11-1...	5000	NULL	10	10	AC
SALE...	7698	1981-09-0...	1500	0	30	10	AC
CLERK	7788	1987-07-1...	1100	NULL	20	10	AC
CLERK	7698	1981-12-0...	950	NULL	30	10	AC
ANA...	7566	1981-12-0...	3000	NULL	20	10	AC
CLERK	7782	1982-01-2...	1300	NULL	10	10	AC
CLERK	7902	1980-12-1...	800	NULL	20	20	RE
SALE...	7698	1981-02-2...	1600	300	30	20	RE
SALE...	7698	1981-02-2...	1250	500	30	20	RE
MAN...	7839	1981-04-0...	2975	NULL	20	20	RE
SALE...	7698	1981-09-2...	1250	1400	30	20	RE
MAN...	7839	1981-05-0...	2850	NULL	30	20	RE
MAN...	7839	1981-06-0...	2450	NULL	10	20	RE
ANA...	7566	1987-07-1...	3000	NULL	20	20	RE
PRES...	NULL	1981-11-1...	5000	NULL	10	20	RE
SALE...	7698	1981-09-0...	1500	0	30	20	RE
CLERK	7788	1987-07-1...	1100	NULL	20	20	RE
CLERK	7698	1981-12-0...	950	NULL	30	20	RE
ANA...	7566	1981-12-0...	3000	NULL	20	20	RE
CLERK	7782	1982-01-2...	1300	NULL	10	20	RE
CLERK	7902	1980-12-1...	800	NULL	20	30	SA
SALE...	7698	1981-02-2...	1600	300	30	30	SA
SALE...	7698	1981-02-2...	1250	500	30	30	SA
MAN...	7839	1981-04-0...	2975	NULL	20	30	SA
SALE...	7698	1981-09-2...	1250	1400	30	30	SA
MAN...	7839	1981-05-0...	2850	NULL	30	30	SA
MAN...	7839	1981-06-0...	2450	NULL	10	30	SA
ANA...	7566	1987-07-1...	3000	NULL	20	30	SA
PRES...	NULL	1981-11-1...	5000	NULL	10	30	SA
SALE...	7698	1981-09-0...	1500	0	30	30	SA
CLERK	7788	1987-07-1...	1100	NULL	20	30	SA
CLERK	7698	1981-12-0...	950	NULL	30	30	SA
ANA...	7566	1981-12-0...	3000	NULL	20	30	SA
CLERK	7782	1982-01-2...	1300	NULL	10	30	SA
CLERK	7902	1980-12-1...	800	NULL	20	40	OP

```sql
--- (2) equi join
select * from emp, dept
where emp.deptno = dept.deptno -- dept는 프라이머리 키로 정리, emp는 외래키로 정리
```

Status | Result1

	EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO	DEPTNO	DN
1	7782	CLARK	M...	78...	1981-0...	2...	NULL	10	10	AC
2	7839	KING	P...	NU...	1981-1...	5...	NULL	10	10	AC
3	7934	MILLER	C...	77...	1982-0...	1...	NULL	10	10	AC
4	7369	SMITH	C...	79...	1980-1...	800	NULL	20	20	RES
5	7566	JONES	M...	78...	1981-0...	2...	NULL	20	20	RES
6	7788	SCOTT	A...	75...	1987-0...	3...	NULL	20	20	RES
7	7876	ADA...	C...	77...	1987-0...	1...	NULL	20	20	RES
8	7902	FORD	A...	75...	1981-1...	3...	NULL	20	20	RES
9	7499	ALLEN	S...	76...	1981-0...	1...	300	30	30	SAL
10	7521	WARD	S...	76...	1981-0...	1...	500	30	30	SAL
11	7654	MAR...	S...	76...	1981-0...	1...	1400	30	30	SAL
12	7698	BLAKE	M...	78...	1981-0...	2...	NULL	30	30	SAL
13	7844	TURN...	S...	76...	1981-0...	1...	0	30	30	SAL
14	7900	JAMES	C...	76...	1981-1...	950	NULL	30	30	SAL

```sql
-- sol)
select ename, dname, loc, emp.deptno -- emp.를 스키마라고 부름
from emp, dept
where emp.deptno = dept.deptno
and ename = 'SCOTT'; -- emp에 있는지 dept에 있는지를 모름. 그래서 emp.을 select에 넣어줘야 함.
```

Status | Result1

	ENAME	DNAME	LOC
1	SCOTT	RESEARCH	DALLAS

```
---     테이블명에 별칭을 준 후 컬럼 앞에 소속 테이블을
---     지정하고자 할 때는 반드시 테이블 명이 아닌 별칭으로 붙여야 함.
select ename, dname, loc, e.deptno -- emp.를 스키마라고 부름
from emp e, dept d
where e.deptno = d.deptno
and ename = 'SCOTT';
```

	ENAME	DNAME	LOC	DEPTNO
1	SCOTT	RESEARCH	DALLAS	20

```
--- (3) non-equi join
CREATE TABLE SALGRADE
      ( GRADE NUMBER,
    LOSAL NUMBER,
    HISAL NUMBER );
INSERT INTO SALGRADE VALUES (1,700,1200);
INSERT INTO SALGRADE VALUES (2,1201,1400);
INSERT INTO SALGRADE VALUES (3,1401,2000);
INSERT INTO SALGRADE VALUES (4,2001,3000);
INSERT INTO SALGRADE VALUES (5,3001,9999);
COMMIT;

select * from SALGRADE;
```

Status | Result1

	GRADE	LOSAL	HISAL
1	1	700	1200
2	2	1201	1400
3	3	1401	2000
4	4	2001	3000
5	5	3001	9999

```
select ename, sal, grade
from emp, salgrade
where sal >= losal and sal <= hisal;
```

Status | Result1

	ENAME	SAL	GRADE
1	SMITH	800	1
2	JAMES	950	1
3	ADAMS	1100	1
4	WARD	1250	2
5	MARTIN	1250	2
6	MILLER	1300	2
7	TURNER	1500	3
8	ALLEN	1600	3
9	CLARK	2450	4
10	BLAKE	2850	4
11	JONES	2975	4
12	SCOTT	3000	4
13	FORD	3000	4
14	KING	5000	5

```
select ename, sal, grade
from emp, salgrade
where sal between losal and hisal;
```

Status | Result1

	ENAME	SAL	GRADE
1	SMITH	800	1
2	JAMES	950	1
3	ADAMS	1100	1
4	WARD	1250	2
5	MARTIN	1250	2
6	MILLER	1300	2
7	TURNER	1500	3
8	ALLEN	1600	3
9	CLARK	2450	4
10	BLAKE	2850	4
11	JONES	2975	4
12	SCOTT	3000	4
13	FORD	3000	4
14	KING	5000	5

```sql
--- emp, dept, salgrade 3개의 테이블 join
select ename, sal, grade, dname
from emp, salgrade, dept
where sal between losal and hisal;
```

Status Result1

	ENAME	SAL	GRADE	DNAME
1	SMITH	800	1	ACCOUNTING
2	SMITH	800	1	RESEARCH
3	SMITH	800	1	SALES
4	SMITH	800	1	OPERATIONS
5	JAMES	950	1	ACCOUNTING
6	JAMES	950	1	RESEARCH
7	JAMES	950	1	SALES
8	JAMES	950	1	OPERATIONS
9	ADAMS	1100	1	ACCOUNTING
10	ADAMS	1100	1	RESEARCH
11	ADAMS	1100	1	SALES
12	ADAMS	1100	1	OPERATIONS
13	WARD	1250	2	ACCOUNTING
14	WARD	1250	2	RESEARCH
15	WARD	1250	2	SALES
16	WARD	1250	2	OPERATIONS
17	MARTIN	1250	2	ACCOUNTING
18	MARTIN	1250	2	RESEARCH
19	MARTIN	1250	2	SALES
20	MARTIN	1250	2	OPERATIONS
21	MILLER	1300	2	ACCOUNTING
22	MILLER	1300	2	RESEARCH
23	MILLER	1300	2	SALES
24	MILLER	1300	2	OPERATIONS
25	TURNER	1500	3	ACCOUNTING
26	TURNER	1500	3	RESEARCH
27	TURNER	1500	3	SALES
28	TURNER	1500	3	OPERATIONS
29	ALLEN	1600	3	ACCOUNTING
30	ALLEN	1600	3	RESEARCH
31	ALLEN	1600	3	SALES
32	ALLEN	1600	3	OPERATIONS
33	CLARK	2450	4	ACCOUNTING
34	CLARK	2450	4	RESEARCH
35	CLARK	2450	4	SALES
36	CLARK	2450	4	OPERATIONS
37	BLAKE	2850	4	ACCOUNTING
38	BLAKE	2850	4	RESEARCH
39	BLAKE	2850	4	SALES
40	BLAKE	2850	4	OPERATIONS
41	JONES	2975	4	ACCOUNTING
42	JONES	2975	4	RESEARCH
43	JONES	2975	4	SALES

사원의 사수가 번호로만 뜸.

```
--- (4) self join
select ename, mgr from emp;
```

Status | Result1

	ENAME	MGR
1	SMITH	7902
2	ALLEN	7698
3	WARD	7698
4	JONES	7839
5	MARTIN	7698
6	BLAKE	7839
7	CLARK	7839
8	SCOTT	7566
9	KING	NULL
10	TURNER	7698
11	ADAMS	7788
12	JAMES	7698
13	FORD	7566
14	MILLER	7782

(null인 king을 제외시키는) self join

```
select employee.ename, employee.mgr, manager.ename
from emp employee, emp manager
-- 별칭을 붙여서 다른 2개의 테이블인 것처럼 사용할 수 있다.
where employee.mgr = manager.empno;
```

Status | Result1

	ENAME	MGR	ENAME
1	FORD	7566	JONES
2	SCOTT	7566	JONES
3	JAMES	7698	BLAKE
4	TURNER	7698	BLAKE
5	MARTIN	7698	BLAKE
6	WARD	7698	BLAKE
7	ALLEN	7698	BLAKE
8	MILLER	7782	CLARK
9	ADAMS	7788	SCOTT
10	CLARK	7839	KING
11	BLAKE	7839	KING
12	JONES	7839	KING
13	SMITH	7902	FORD

---

king까지 가져올 수 있다.

```
--- (5) outer join
select employee.ename, employee.mgr, manager.ename
from emp employee, emp manager
-- 별칭을 붙여서 다른 2개의 테이블인 것처럼 사용할 수 있다.
where employee.mgr = manager.empno(+);
```

Status | Result1

	ENAME	MGR	ENAME
1	FORD	7566	JONES
2	SCOTT	7566	JONES
3	JAMES	7698	BLAKE
4	TURNER	7698	BLAKE
5	MARTIN	7698	BLAKE
6	WARD	7698	BLAKE
7	ALLEN	7698	BLAKE
8	MILLER	7782	CLARK
9	ADAMS	7788	SCOTT
10	CLARK	7839	KING
11	BLAKE	7839	KING
12	JONES	7839	KING
13	SMITH	7902	FORD
14	KING	NULL	NULL