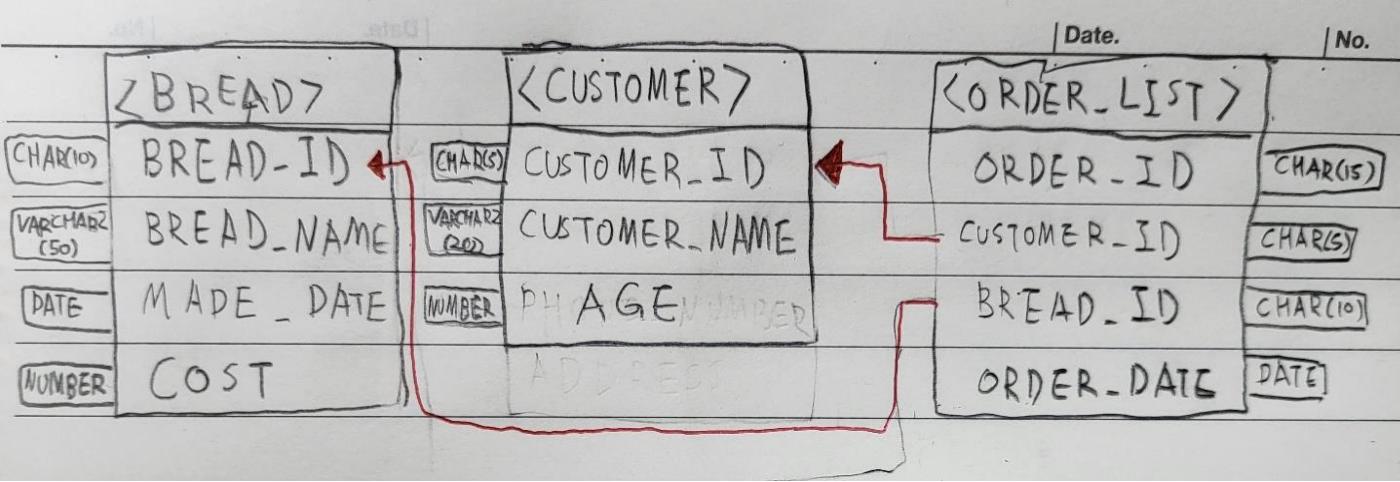


이상원 유연 손현수 손찬우



```
DROP TABLE BREAD CASCADE CONSTRAINT;
DROP TABLE CUSTOMER CASCADE CONSTRAINT;
DROP TABLE ORDER_LIST CASCADE CONSTRAINT;
```

-- 테이블 생성

```
CREATE TABLE BREAD (
    BREAD_ID CHAR(10) PRIMARY KEY,
    BREAD_NAME VARCHAR2(50),
    MADE_DATE DATE DEFAULT SYSDATE,
    COST NUMBER CHECK (COST > 0)
);
```

```
CREATE TABLE CUSTOMER (
    CUSTOMER_ID CHAR(5) PRIMARY KEY,
    CUSTOMER_NAME VARCHAR2(20),
    AGE NUMBER
);
```

```
CREATE TABLE ORDER_LIST (
    ORDER_ID CHAR(15) PRIMARY KEY,
    CUSTOMER_ID CHAR(5) REFERENCES CUSTOMER (CUSTOMER_ID),
    BREAD_ID CHAR(10) REFERENCES BREAD (BREAD_ID),
    ORDER_DATE DATE DEFAULT SYSDATE
);
```

-- 데이터 삽입

-- BREAD 테이블 데이터 삽입

```
INSERT INTO BREAD (BREAD_ID, BREAD_NAME, MADE_DATE, COST) VALUES ('B001', '크루아상', SYSDATE - 10, 3000);
INSERT INTO BREAD (BREAD_ID, BREAD_NAME, MADE_DATE, COST) VALUES ('B002', '베이글', SYSDATE - 9, 2500);
INSERT INTO BREAD (BREAD_ID, BREAD_NAME, MADE_DATE, COST) VALUES ('B003', '바게트', SYSDATE - 8, 3500);
INSERT INTO BREAD (BREAD_ID, BREAD_NAME, MADE_DATE, COST) VALUES ('B004', '사워도우', SYSDATE - 7, 4000);
INSERT INTO BREAD (BREAD_ID, BREAD_NAME, MADE_DATE, COST) VALUES ('B005', '치아바타', SYSDATE - 6, 4500);
INSERT INTO BREAD (BREAD_ID, BREAD_NAME, MADE_DATE, COST) VALUES ('B006', '포카치아', SYSDATE - 5, 2800);
INSERT INTO BREAD (BREAD_ID, BREAD_NAME, MADE_DATE, COST) VALUES ('B007', '호밀빵', SYSDATE - 4, 3200);
```

-- CUSTOMER 테이블 데이터 삽입

```
INSERT INTO CUSTOMER (CUSTOMER_ID, CUSTOMER_NAME, AGE) VALUES ('C001', '김철수', 25);
INSERT INTO CUSTOMER (CUSTOMER_ID, CUSTOMER_NAME, AGE) VALUES ('C002', '박영희', 32);
INSERT INTO CUSTOMER (CUSTOMER_ID, CUSTOMER_NAME, AGE) VALUES ('C003', '이민호', 28);
INSERT INTO CUSTOMER (CUSTOMER_ID, CUSTOMER_NAME, AGE) VALUES ('C004', '최수지', 24);
INSERT INTO CUSTOMER (CUSTOMER_ID, CUSTOMER_NAME, AGE) VALUES ('C005', '정다혜', 30);
INSERT INTO CUSTOMER (CUSTOMER_ID, CUSTOMER_NAME, AGE) VALUES ('C006', '한지민', 26);
INSERT INTO CUSTOMER (CUSTOMER_ID, CUSTOMER_NAME, AGE) VALUES ('C007', '유재석', 40);
INSERT INTO CUSTOMER (CUSTOMER_ID, CUSTOMER_NAME, AGE) VALUES ('C008', '강호동', 42);
INSERT INTO CUSTOMER (CUSTOMER_ID, CUSTOMER_NAME, AGE) VALUES ('C009', '신동엽', 38);
INSERT INTO CUSTOMER (CUSTOMER_ID, CUSTOMER_NAME, AGE) VALUES ('C010', '이효리', 35);
```

-- ORDER_LIST 테이블 데이터 삽입

```
INSERT INTO ORDER_LIST (ORDER_ID, CUSTOMER_ID, BREAD_ID, ORDER_DATE) VALUES ('O001', 'C001', 'B001', SYSDATE - 7);
INSERT INTO ORDER_LIST (ORDER_ID, CUSTOMER_ID, BREAD_ID, ORDER_DATE) VALUES ('O002', 'C002', 'B002', SYSDATE - 6);
INSERT INTO ORDER_LIST (ORDER_ID, CUSTOMER_ID, BREAD_ID, ORDER_DATE) VALUES ('O003', 'C003', 'B003', SYSDATE - 5);
INSERT INTO ORDER_LIST (ORDER_ID, CUSTOMER_ID, BREAD_ID, ORDER_DATE) VALUES ('O004', 'C004', 'B004', SYSDATE - 4);
INSERT INTO ORDER_LIST (ORDER_ID, CUSTOMER_ID, BREAD_ID, ORDER_DATE) VALUES ('O005', 'C005', 'B005', SYSDATE - 3);
INSERT INTO ORDER_LIST (ORDER_ID, CUSTOMER_ID, BREAD_ID, ORDER_DATE) VALUES ('O006', 'C006', 'B006', SYSDATE - 2);
INSERT INTO ORDER_LIST (ORDER_ID, CUSTOMER_ID, BREAD_ID, ORDER_DATE) VALUES ('O007', 'C007', 'B007', SYSDATE - 1);
INSERT INTO ORDER_LIST (ORDER_ID, CUSTOMER_ID, BREAD_ID, ORDER_DATE) VALUES ('O008', 'C008', 'B001', SYSDATE - 6);
INSERT INTO ORDER_LIST (ORDER_ID, CUSTOMER_ID, BREAD_ID, ORDER_DATE) VALUES ('O009', 'C009', 'B002', SYSDATE - 5);
INSERT INTO ORDER_LIST (ORDER_ID, CUSTOMER_ID, BREAD_ID, ORDER_DATE) VALUES ('O010', 'C010', 'B003', SYSDATE - 4);
```

1. 빵이름이 '바게트'인 빵의 가격을 찾아라.

```
SELECT COST FROM BREAD  
WHERE BREAD_NAME='바게트';
```

2. 3000원이상 4000원 이하인 빵의 이름을 출력하시오.

```
SELECT BREAD_NAME  
FROM BREAD  
WHERE COST>=3000 AND COST<=4000;
```

3. 고객의 성만 나오고 나머지는 * 로 표시하시오. (별칭은 개인정보)

```
SELECT CUSTOMER_ID, CONCAT(SUBSTR(CUSTOMER_NAME,1,  
LENGTH(CUSTOMER_NAME)-2),'**') AS 개인정보  
FROM CUSTOMER;
```

4. 고객을 4개의 그룹으로 나누시오.(ROWNUM을 활용할 것, 별칭은 그룹으로 할 것)

```
SELECT CUSTOMER_ID, CUSTOMER_NAME, AGE, MOD(ROWNUM, 4) AS 그룹  
FROM CUSTOMER;
```

	COST
1	3500

	BREAD_NAME
1	크루아상
2	바게트
3	사워도우
4	호밀빵

	CUSTOMER_ID	개인정보
1	C001	김**
2	C002	박**
3	C003	이**
4	C004	최**
5	C005	정**
6	C006	한**
7	C007	유**
8	C008	강**
9	C009	신**
10	C010	이**

	CUSTOMER_ID	CUSTOMER_NAME	AGE	그룹
1	C001	김철수	25	1
2	C002	박영희	32	2
3	C003	이민호	28	3
4	C004	최수지	24	0
5	C005	정다혜	30	1
6	C006	한지민	26	2
7	C007	유재석	40	3
8	C008	강호동	42	0
9	C009	신농엽	38	1
10	C010	이효리	35	2

함수

5. 나이가 30이상이면 OB로 30미만이면 YB로 해서 AGE_GROUP이라는 열을 추가하시오.

```
SELECT CUSTOMER_ID, CUSTOMER_NAME, AGE,
CASE
    WHEN AGE >= 30 THEN 'OB'
    ELSE 'YB'
END AS "AGE_GROUP"
FROM CUSTOMER;
```

6. BREAD 테이블에 INCREASED_COST라는 열을 추가하고 값은 COST에 500을 더한 값으로 채워넣으시오.

```
ALTER TABLE BREAD ADD INCREASED_COST NUMBER;
UPDATE BREAD
SET INCREASED_COST = COST + 500;
SELECT * FROM BREAD;
```

7. BREAD테이블 MADE_DATE열에서 DAY만 추출하시오.

```
SELECT BREAD_ID, BREAD_NAME, EXTRACT(DAY FROM MADE_DATE), COST
FROM BREAD;
```

8. BREAD테이블의 COST데이터 뒤에 '원'을 붙이시오.

```
SELECT BREAD_ID, BREAD_NAME, MADE_DATE, CONCAT(COST, '원')
FROM BREAD;
```

CUSTOMER_ID	CUSTOMER_NAME	AGE	AGE_GROUP
C001	김철수	25	YB
C002	박영희	32	OB
C003	이민호	28	YB
C004	최수지	24	YB
C005	정다혜	30	OB
C006	한지민	26	YB
C007	유재석	40	OB
C008	강호동	42	OB
C009	신동엽	38	OB
C010	이효리	35	OB

BREAD_ID	BREAD_NAME	MADE_DATE	COST	INCREASED_COST
B001	크루아상	24/11/16	3000	3500
B002	베이글	24/11/17	2500	3000
B003	바게트	24/11/18	3500	4000
B004	사워도우	24/11/19	4000	4500
B005	치아바타	24/11/20	4500	5000
B006	포카치아	24/11/21	2800	3300
B007	호밀빵	24/11/22	3200	3700

BREAD_ID	BREAD_NAME	EXTRACT(DAYFROMMADE_DATE)	COST
B001	크루아상	16	3000
B002	베이글	17	2500
B003	바게트	18	3500
B004	사워도우	19	4000
B005	치아바타	20	4500
B006	포카치아	21	2800
B007	호밀빵	22	3200

BREAD_ID	BREAD_NAME	MADE_DATE	CONCAT(COST, '원')
B001	크루아상	24/11/16	3000원
B002	베이글	24/11/17	2500원
B003	바게트	24/11/18	3500원
B004	사워도우	24/11/19	4000원
B005	치아바타	24/11/20	4500원
B006	포카치아	24/11/21	2800원
B007	호밀빵	24/11/22	3200원

9. (C011, '홍길동', 29) 이 데이터를 추가하고 SAVEPOINT A1을 설정하시오

```
INSERT INTO CUSTOMER (CUSTOMER_ID, CUSTOMER_NAME, AGE)  
VALUES ('C011', '홍길동', 29);  
SAVEPOINT A1;
```

10. ROLLBACK을 수행하시오.

```
ROLLBACK;
```

	CUSTOMER_ID	CUSTOMER_NAME	AGE
1	C001	김절수	25
2	C002	박영희	32
3	C003	이민호	28
4	C004	최수지	24
5	C005	정다혜	30
6	C006	한지민	26
7	C007	유재석	40
8	C008	강호농	42
9	C009	신농엽	38
10	C010	이효리	35
11	C011	홍길동	29

	CUSTOMER_ID	CUSTOMER_NAME	AGE
1	C001	김절수	25
2	C002	박영희	32
3	C003	이민호	28
4	C004	최수지	24
5	C005	정다혜	30
6	C006	한지민	26
7	C007	유재석	40
8	C008	강호농	42
9	C009	신농엽	38
10	C010	이효리	35