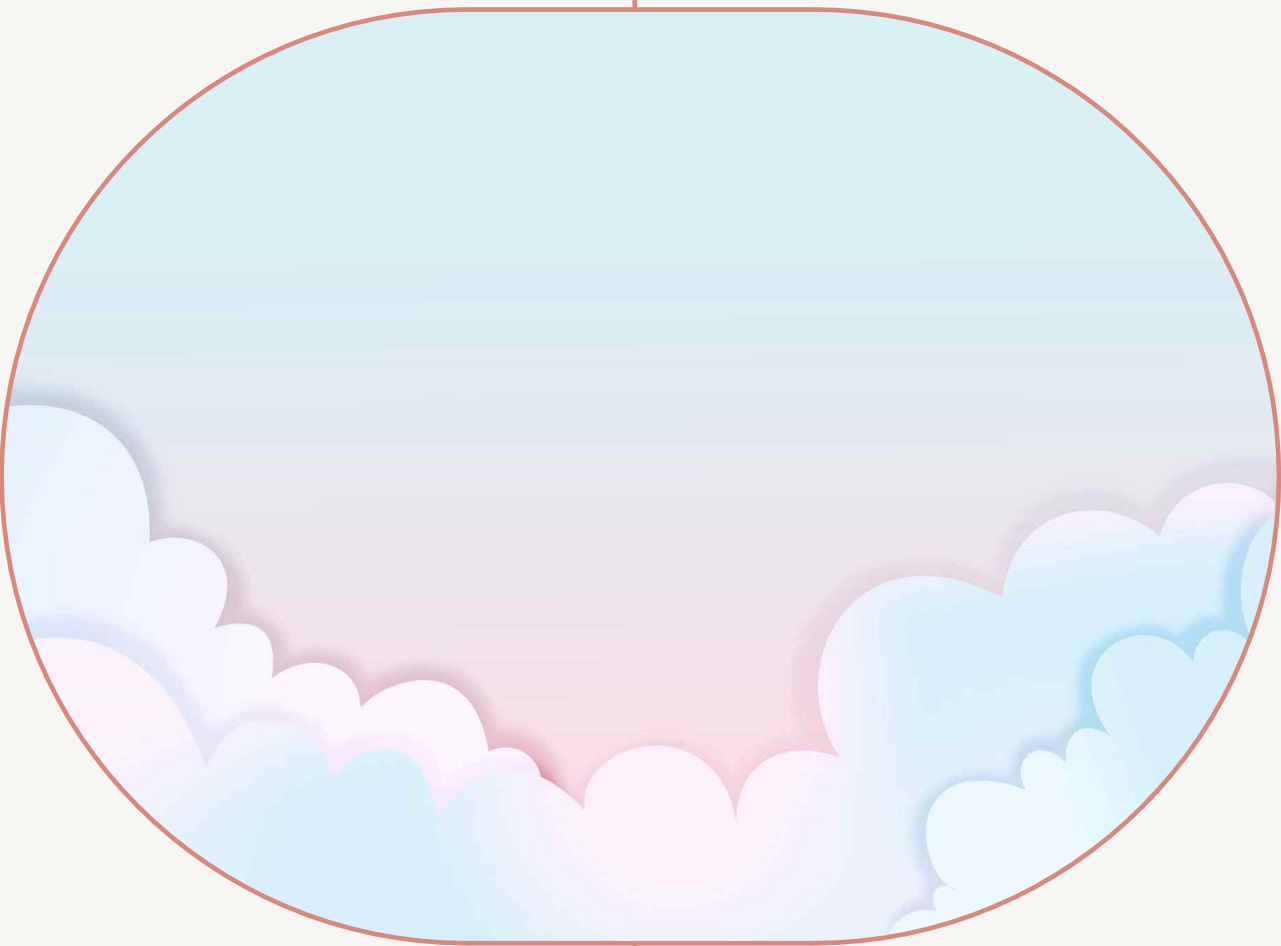


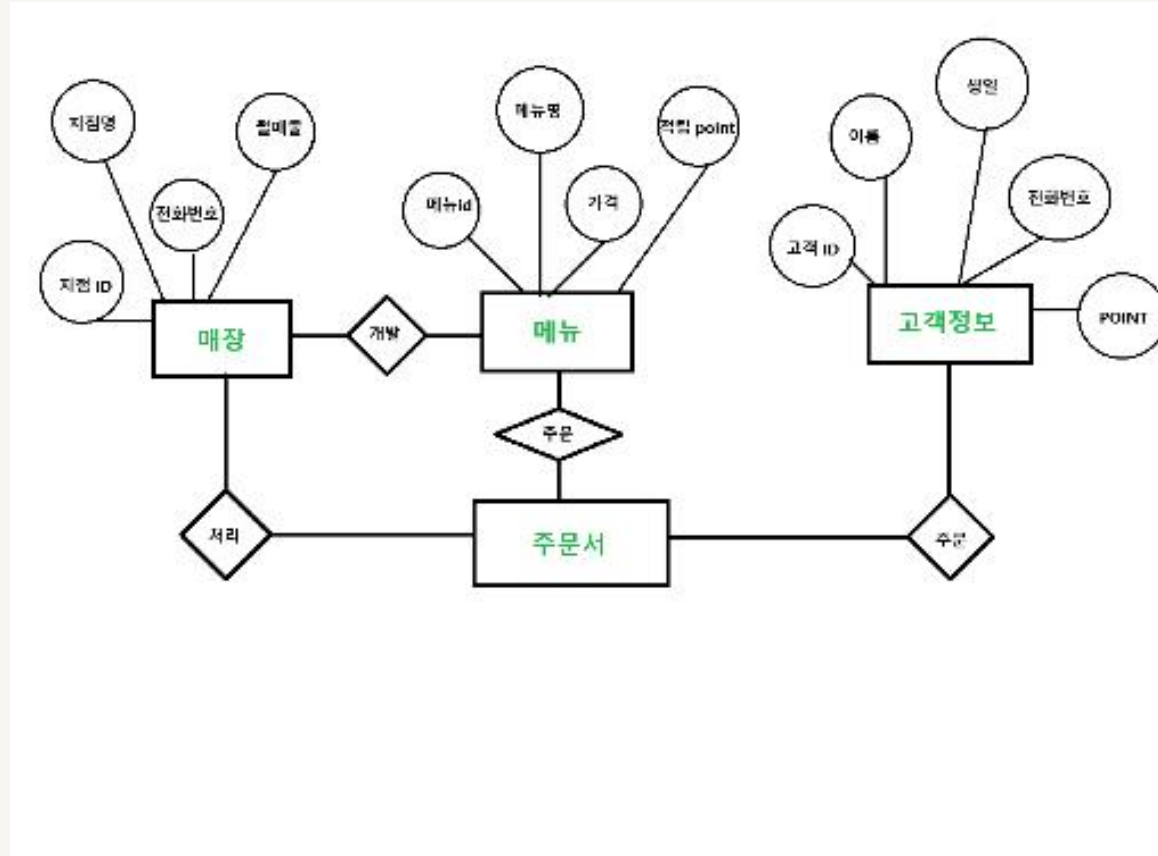
CAFE

"숙타벅수"

김세현, 황지영



ERD (개념적 데이터 모델링)



테이블 생성 (CAFE 메뉴)

```
1  -- 메뉴 테이블   아이디,이름,가격,포인트
2  create table menu_tbl
3  (
4  menu_id char(4) primary key,
5  menu_name varchar2(25) not null,
6  menu_price varchar2(10) not null,
7  menu_point varchar2(10) not null,
8  storesid char(4) default 'all'
9  );
10
```

```
11 insert into menu_tbl(menu_id, menu_name, menu_price, menu_point) values('A001', '아이스아메리카노', '2000', '20');
12 insert into menu_tbl(menu_id, menu_name, menu_price, menu_point) values('A002', '바나나라떼', '3000', '30');
13 insert into menu_tbl(menu_id, menu_name, menu_price, menu_point) values('A003', '초콜릿케이크', '2900', '29');
14 insert into menu_tbl(menu_id, menu_name, menu_price, menu_point) values('A004', '레몬주스', '2900', '29');
15 insert into menu_tbl(menu_id, menu_name, menu_price, menu_point) values('A005', '오렌지파워아이스', '3700', '37');
16 insert into menu_tbl(menu_id, menu_name, menu_price, menu_point) values('B001', '요거트스무디', '3900', '39');
17 insert into menu_tbl(menu_id, menu_name, menu_price, menu_point) values('B002', '강아지코코넛라떼', '3900', '39');
18 insert into menu_tbl(menu_id, menu_name, menu_price, menu_point) values('B003', '참고양이주스', '4000', '40');
19 insert into menu_tbl(menu_id, menu_name, menu_price, menu_point) values('B004', '블루베리', '2500', '25');
20 insert into menu_tbl(menu_id, menu_name, menu_price, menu_point) values('B005', '치즈도넛', '2500', '25');
21 insert into menu_tbl(menu_id, menu_name, menu_price, menu_point) values('C001', '초코쿠키', '4000', '40');
22 insert into menu_tbl(menu_id, menu_name, menu_price, menu_point) values('C002', '후지키아몬드', '4500', '45');
23 insert into menu_tbl(menu_id, menu_name, menu_price, menu_point) values('C003', '스콘', '4500', '45');
24 insert into menu_tbl(menu_id, menu_name, menu_price, menu_point) values('C004', '마카롱', '3000', '30');
25 insert into menu_tbl(menu_id, menu_name, menu_price, menu_point) values('C005', '허니버터드', '7000', '70');
26 insert into menu_tbl(menu_id, menu_name, menu_price, menu_point, storesid) values('D001', '허그컵', '9300', '93', 'D004');
27 insert into menu_tbl(menu_id, menu_name, menu_price, menu_point, storesid) values('D002', '밀떡', '33000', '330', 'D001');
28 insert into menu_tbl(menu_id, menu_name, menu_price, menu_point, storesid) values('D003', '제빵인간문두', '14000', '140', 'D003');
29 insert into menu_tbl(menu_id, menu_name, menu_price, menu_point, storesid) values('D004', '후약', '99000', '990', 'D003');
30 commit;
```

| ⌘ MENU_ID | ⌘ MENU_NAME | ⌘ MENU... | ⌘ MENU_POINT | ⌘ STORESID |
|-----------|-------------|-----------|--------------|------------|
| 1 A001 | 아이스아메리카노 | 2000 | 20 | all |
| 2 A002 | 메가리카노 | 3000 | 30 | all |
| 3 A003 | 카페라떼 | 2900 | 29 | all |
| 4 A004 | 카푸치노 | 2900 | 29 | all |
| 5 A005 | 카라멜마끼아또 | 3700 | 37 | all |
| 6 B001 | 요거트스무디 | 3900 | 39 | all |
| 7 B002 | 리얼초코프라페 | 3900 | 39 | all |
| 8 B003 | 생과일주스 | 4000 | 40 | all |
| 9 B004 | 녹차 | 2500 | 25 | all |
| 10 B005 | 케모마일 | 2500 | 25 | all |
| 11 C001 | 초코쿠키 | 4000 | 40 | all |
| 12 C002 | 치즈케이크 | 4500 | 45 | all |
| 13 C003 | 스콘 | 4500 | 45 | all |
| 14 C004 | 마카롱 | 3000 | 30 | all |
| 15 C005 | 허니브래드 | 7000 | 70 | all |
| 16 D001 | 머그컵 | 9300 | 93 | S004 |
| 17 D002 | 텀블러 | 33000 | 330 | S001 |
| 18 D003 | 에티오피아원두 | 14000 | 140 | S003 |
| 19 D004 | 루왁 | 99000 | 990 | S003 |

테이블 생성 (STORE 점포)

```
56 create table store_tbl
57 (
58   store_id char(4) primary key,
59   store_name varchar2(20) not null,
60   store_tell varchar2(13) not null unique,
61   store_total varchar2(12) not null
62 );
63
```

```
69 insert into store_tbl(store_id, store_name, store_tell, store_total)
70     values('S001', '에이콘본점', '02-2231-6412', '61,758,000');
71 insert into store_tbl(store_id, store_name, store_tell, store_total)
72     values('S002', '종로점', '02-2231-6472', '28,462,000');
73 insert into store_tbl(store_id, store_name, store_tell, store_total)
74     values('S003', '강남역점', '02-2232-2484', '48,441,000');
75 insert into store_tbl(store_id, store_name, store_tell, store_total)
76     values('S004', '포항역점', '054-2798-8354', '13,517,000');
77 commit;
78
```

| | ↕ STORE_ID | ↕ STORE_NAME | ↕ STORE_TELL | ↕ STORE_TOTAL |
|---|------------|--------------|---------------|---------------|
| 1 | s001 | 에이콘본점 | 02-2231-6412 | 61,758,000 |
| 2 | s002 | 종로점 | 02-2231-6472 | 28,462,000 |
| 3 | s003 | 강남역점 | 02-2232-2484 | 48,441,000 |
| 4 | s004 | 포항역점 | 054-2798-8354 | 13,517,000 |

테이블 생성 (CUSTOMER 고객정보)

```
36 -- 고객 테이블 아이디,이름,전화번호,생일,적립포인트
37 create table customer_tbl4
38 (
39     customer_id char(4) primary key,
40     customer_name varchar2(20) not null,
41     customer_tell char(13) unique,
42     customer_birth varchar2(10),
43     customer_point varchar2(10)
44 );
45
```

```
46 insert into customer_tbl4(customer_id, customer_name, customer_tell, customer_birth, customer_point)
47     values('2001', '김새현', '010-8441-8438', '03-27', '0');
48 insert into customer_tbl4(customer_id, customer_name, customer_tell, customer_birth, customer_point)
49     values('2002', '황지영', '010-9876-5432', '08-10', '18751');
50 insert into customer_tbl4(customer_id, customer_name, customer_tell, customer_birth, customer_point)
51     values('2003', '우주연', '010-1537-7532', '09-12', '13250');
52 insert into customer_tbl4(customer_id, customer_name, customer_tell, customer_birth, customer_point)
53     values('2004', '김종석', '010-2537-9632', '12-25', '460');
54 insert into customer_tbl4(customer_id, customer_name, customer_tell, customer_birth, customer_point)
55     values('2005', '김슬', '010-7468-9285', '06-01', '1510');
56 insert into customer_tbl4(customer_id, customer_name, customer_tell, customer_birth, customer_point)
57     values('2006', '홍길동', '010-1234-5678', '01-01', '990');
58 commit;
```

| ⌘ | CUSTOMER_ID | ⌘ | CUSTOMER_NAME | ⌘ | CUSTOMER_TELL | ⌘ | CUSTOMER_BIRTH | ⌘ | CUSTOMER_POINT |
|---|-------------|---|---------------|---|---------------|---|----------------|---|----------------|
| 1 | z001 | | 김세현 | | 010-8441-8438 | | 03-27 | | 0 |
| 2 | z002 | | 황지영 | | 010-9876-5432 | | 08-10 | | 18751 |
| 3 | z003 | | 우주연 | | 010-1597-7532 | | 09-12 | | 13250 |
| 4 | z004 | | 김정석 | | 010-2587-9632 | | 12-25 | | 460 |
| 5 | z005 | | 김솔 | | 010-7468-9285 | | 06-01 | | 1510 |
| 6 | z006 | | 홍길동 | | 010-1234-5678 | | 01-01 | | 990 |

테이블 생성 (ORDER 주문서작성)

```
89 -- 주문 테이블
90 --( 고객id, 메뉴id, 메뉴수량, 메뉴가격, 결제금액, 적립포인트, 자점id)
91 create table order_tbl1
92 (
93 order_Cid char(4) not null,
94 order_Mid char(4) not null,
95 order_cnt varchar2(3) not null,
96 order_price varchar2(10) not null,
97 order_point varchar2(10) not null,
98 order_Sid char(4) not null
99 );
100
```

```
101 insert into order_tbl1(order_Cid, order_Mid, order_cnt, order_price, order_point, order_Sid)
102 values('2002','A002','1','3000','30','8004');
103 insert into order_tbl1(order_Cid, order_Mid, order_cnt, order_price, order_point, order_Sid)
104 values('2001','B001','1','3800','38','8003');
105 insert into order_tbl1(order_Cid, order_Mid, order_cnt, order_price, order_point, order_Sid)
106 values('2003','B005','3','7500','75','8001');
107 insert into order_tbl1(order_Cid, order_Mid, order_cnt, order_price, order_point, order_Sid)
108 values('2001','C005','1','7000','70','8003');
109 insert into order_tbl1(order_Cid, order_Mid, order_cnt, order_price, order_point, order_Sid)
110 values('2002','C002','2','8000','80','8001');
111 insert into order_tbl1(order_Cid, order_Mid, order_cnt, order_price, order_point, order_Sid)
112 values('2004','A001','2','4000','40','8001');
113 insert into order_tbl1(order_Cid, order_Mid, order_cnt, order_price, order_point, order_Sid)
114 values('2005','B002','1','3500','35','8002');
115 insert into order_tbl1(order_Cid, order_Mid, order_cnt, order_price, order_point, order_Sid)
116 values('2006','D004','1','89000','890','8003');
117 insert into order_tbl1(order_Cid, order_Mid, order_cnt, order_price, order_point, order_Sid)
118 values('2002','D002','5','165000','1650','8001');
119 insert into order_tbl1(order_Cid, order_Mid, order_cnt, order_price, order_point, order_Sid)
120 values('2003','D001','1','5300','53','8004');
121 insert into order_tbl1(order_Cid, order_Mid, order_cnt, order_price, order_point, order_Sid)
122 values('2002','D003','1','14000','140','8003');
123 commit;
```

| ORDER_CID | ORDER_MID | ORDER_CNT | ORDER_PRICE | ORDER_POINT | ORDER_SID |
|-----------|-----------|-----------|-------------|-------------|-----------|
| 1 2002 | A002 | 1 | 3000 | 30 | S004 |
| 2 2001 | B001 | 1 | 3900 | 39 | S003 |
| 3 2003 | B005 | 3 | 7500 | 75 | S001 |
| 4 2001 | C005 | 1 | 7000 | 70 | S003 |
| 5 2002 | C002 | 2 | 9000 | 90 | S001 |
| 6 2004 | A001 | 2 | 4000 | 40 | S001 |
| 7 2005 | B002 | 1 | 3900 | 39 | S002 |
| 8 2006 | D004 | 1 | 99000 | 990 | S003 |
| 9 2002 | D002 | 5 | 165000 | 1650 | S001 |
| 10 2003 | D001 | 1 | 9300 | 93 | S004 |
| 11 2002 | D003 | 1 | 14000 | 140 | S003 |

테이블 활용예제

고객정보 보호하기

```
122 --고객이름 일명화 지키기
123 select customer_id, substr(customer_name, 1,2) || '*' as 고객이름 from customer_tbl4;
124 select replace(customer_name, substr(customer_name, 2,1), '*') as 고객이름 from customer_tbl4;
125
```

| | 고객이름 |
|---|------|
| 1 | 김세* |
| 2 | 황지* |
| 3 | 우주* |
| 4 | 김정* |
| 5 | 김솔* |
| 6 | 홍길* |

| | 고객이름 |
|---|------|
| 1 | 김*현 |
| 2 | 황*영 |
| 3 | 우*연 |
| 4 | 김*석 |
| 5 | 김* |
| 6 | 홍*동 |

주문 테이블을 이용하여 1인당 결제금액 구하기 (개인정보는 * 로 변경)

SQL | 인출된 모든 행: 11(0.001초)

| ORDER_CID | CUSTOMER_NAME | CUSTOMER_TELL | ORDER_PRICE |
|-----------|---------------|---------------|-------------|
| 1 z002 | 황지영 | 010-9876-5432 | 3000 |
| 2 z001 | 김세현 | 010-8441-8438 | 3900 |
| 3 z003 | 우주연 | 010-1597-7532 | 7500 |
| 4 z001 | 김세현 | 010-8441-8438 | 7000 |
| 5 z002 | 황지영 | 010-9876-5432 | 9000 |
| 6 z004 | 김정석 | 010-2587-9632 | 4000 |
| 7 z005 | 김솔 | 010-7468-9285 | 3900 |
| 8 z006 | 홍길동 | 010-1234-5678 | 99000 |
| 9 z002 | 황지영 | 010-9876-5432 | 165000 |
| 10 z003 | 우주연 | 010-1597-7532 | 9300 |
| 11 z002 | 황지영 | 010-9876-5432 | 14000 |

153 --주문 테이블을 이용하여 1원당 결제금액 구하기 (개인정보 * 로 변경)

154 select o.order_cid ,

155 substr(customer_name, 1,1)||'***' as 고객이름,

156 substr(customer_tell,1,4)|| '*****' || substr (customer_tell, 9,5) as 고객정보,

157 to_char(sum(order_price),'999,999')||'원' as 매출금액

158 from order_tbl1 o join customer_tbl4 c on o.order_cid = c.customer_id

159 group by o.order_cid ,

160 substr(customer_name, 1,1)||'***' ,

161 substr(customer_tell,1,4)|| '*****' || substr (customer_tell, 9,5)

162 order by o.order_cid asc;

163

    SQL | 인출된 모든 행: 6(0.005초)

| | ORDER_CID | 고객이름 | 고객정보 | 매출금액 |
|---|-----------|------|---------------|----------|
| 1 | z001 | 김** | 010-****-8438 | 10,900원 |
| 2 | z002 | 황** | 010-****-5432 | 191,000원 |
| 3 | z003 | 우** | 010-****-7532 | 16,800원 |
| 4 | z004 | 김** | 010-****-9632 | 4,000원 |
| 5 | z005 | 김** | 010-****-9285 | 3,900원 |
| 6 | z006 | 홍** | 010-****-5678 | 99,000원 |

주문 테이블을 이용하여 지점당 결제금액 구하기

```
180  --주문 테이블을 이용하여 지점당 결제금액 구하기
181  select o.order_sid , s.store_name, s.store_tell,
182  to_char(sum(order_price), '999,999') || '원' as 매출금액
183  from order_tbl1 o join store_tbl s on o.order_sid = s.store_id
184  group by o.order_sid , s.store_name, s.store_tell
185  order by sum(order_price) desc;
186
```

    SQL | 인출된 모든 행: 4(0.001초)

| | ORDER_SID | STORE_NAME | STORE_TELL | 매출금액 |
|---|-----------|------------|---------------|----------|
| 1 | s001 | 에이콘본점 | 02-2231-6412 | 185,500원 |
| 2 | s003 | 강남역점 | 02-2232-2484 | 123,900원 |
| 3 | s004 | 포항역점 | 054-2798-8354 | 12,300원 |
| 4 | s002 | 종로점 | 02-2231-6472 | 3,900원 |

이상으로 과제를 마치겠습니다.

감사합니다.