

미니프로젝트 데이터설계서

데이터설계_O반_1871434_조 민정

데이터 설계

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엔티티 기술서

엔티티명	속성명
재고	상품위치코드, 재고수량
옷	상품명, 색상, 사이즈, 판매가, 할인판매가, 할인기간, 제품설명, 판매량, 당일발송여부, 평균별점, 품질 여부
모델	모델명, 모델 키, 모델 몸무게, 상의 사이즈, 하의 사이즈
카테고리	best, new 10%, 당일발송, outer, top, pants, sk&dress
고객	회원이름, 생년월일, 이메일, 회원 ID, 비밀번호, 휴대폰 번호, 회원 등급
직원	직원 ID, 비밀번호, 이름, 부서명, 주민등록번호, 생년월일, 나이, 입사일자
포인트	일자, 구분, 사용내역, 증감포인트, 잔여 포인트

엔티티 기술서

엔티티명	속성명
쿠폰	쿠폰내용, 사용여부, 유효 기간
문의	문의 날짜, 문의 종류, 문의 내용, 비밀번호, 답변한 날짜, 답변 내용
장바구니	결제예상금액, 수량
주문	주문번호, 주문일자, 총 주문 가격, 할인된 가격, 결제 방법, 총 결제 가격, 배송지 정보, 택배사, 운송번호
구매상태	입금 전, 입금 확인, 출고 준비 중, 배송 중, 배송 완료, 구매 확정, 환불 신청, 환불 완료, 교환 신청, 교환 완료
환불	환불 예상 금액, 환불 사유, 별도의 배송비
교환	교환 사유, 별도의 배송비
리뷰&별점	리뷰내용, 별점

논리적 설계

[1.1]

모델명	Varchar2(20)	NN (PK)
모델키	Number(3,0)	NN (PK)
모델물류	Number(3,0)	NN (PK)
상위사이즈	Number(2,0)	NN (PK)
하위사이즈	Number(2,0)	NN (PK)
상물명	Varchar2(10)	NN (PFK)
색상	Char(10)	NN (PFK)
사이즈	Char(4)	NN (PFK)

상물위치코드	Char(4)	NN (PK)
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상물명	Varchar2(10)	NN (PFK)
색상	Char(10)	NN (PFK)
사이즈	Char(4)	NN (PFK)
판매가	Char(10)	NN (PFK)

주문번호	Char(15)	NN (PFK)
상물명	Varchar2(10)	NN (PFK)
상물ID	Varchar2(10)	NN (PFK)
색상	Char(10)	NN (PFK)
사이즈	Char(4)	NN (PFK)
판매가	Char(10)	NN (PFK)

주문번호	Char(15)	NN (PFK)
상물명	Varchar2(10)	NN (PFK)
상물ID	Varchar2(10)	NN (PFK)
색상	Char(10)	NN (PFK)
사이즈	Char(4)	NN (PFK)
판매가	Char(10)	NN (PFK)

[2.1]

상물명	Varchar2(10)	NN (PFK)
상물ID	Varchar2(10)	NN (PFK)
색상	Char(10)	NN (PFK)
사이즈	Char(4)	NN (PFK)
판매가	Char(10)	NN (PFK)

주문번호	Char(15)	NN (PK)
상물명	Varchar2(10)	NN (PFK)
상물ID	Varchar2(10)	NN (PFK)
색상	Char(10)	NN (PFK)
사이즈	Char(4)	NN (PFK)
판매가	Char(10)	NN (PFK)

주문번호	Char(15)	NN (PFK)
상물명	Varchar2(10)	NN (PFK)
상물ID	Varchar2(10)	NN (PFK)
색상	Char(10)	NN (PFK)
사이즈	Char(4)	NN (PFK)
판매가	Char(10)	NN (PFK)

[3.1]

회원ID	Varchar2(10)	NN (PK)
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주문번호	Char(15)	NN (PFK)
상물명	Varchar2(10)	NN (PFK)
상물ID	Varchar2(10)	NN (PFK)
색상	Char(10)	NN (PFK)
사이즈	Char(4)	NN (PFK)
판매가	Char(10)	NN (PFK)

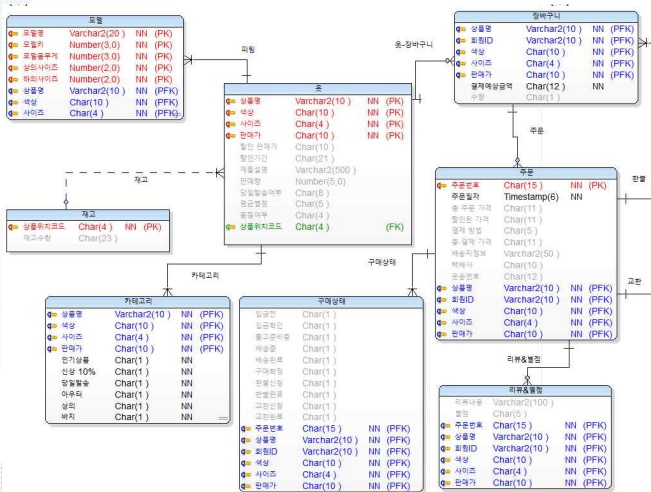
주문번호	Char(15)	NN (PFK)
상물명	Varchar2(10)	NN (PFK)
상물ID	Varchar2(10)	NN (PFK)
색상	Char(10)	NN (PFK)
사이즈	Char(4)	NN (PFK)
판매가	Char(10)	NN (PFK)

회원ID	Varchar2(10)	NN (PFK)
문의날짜	Timestamp(6)	NN (PK)
문의유형	Varchar2(10)	NN (PK)
문의내용	Varchar2(100)	NN (PK)
직원ID	Varchar2(10)	NN (FK)

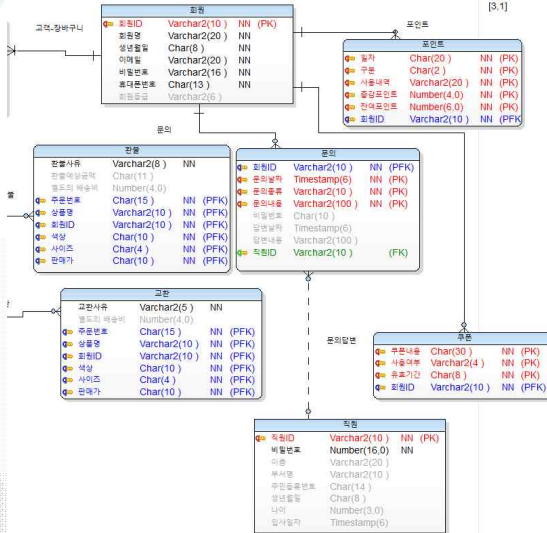
직원ID	Varchar2(10)	NN (PK)
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일자	Char(20)	NN (PK)
구분	Char(2)	NN (PK)
사용내역	Varchar2(20)	NN (PK)
출입포인트	Number(4,0)	NN (PK)
전역포인트	Number(6,0)	NN (PK)
회원ID	Varchar2(10)	NN (FK)

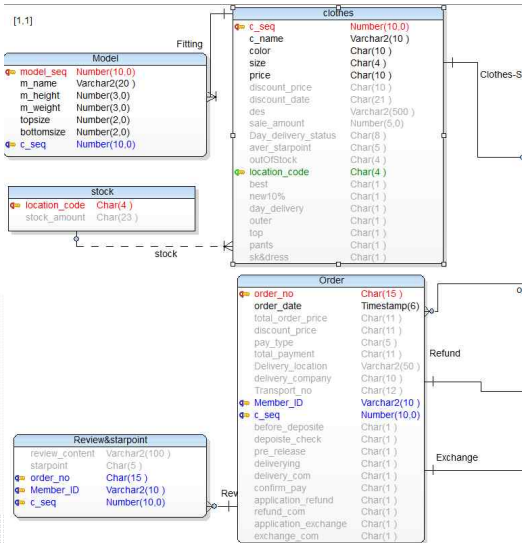
주문내용	Char(30)	NN (PK)
사용여부	Varchar2(4)	NN (PK)
유효기간	Char(8)	NN (PK)
회원ID	Varchar2(10)	NN (FK)



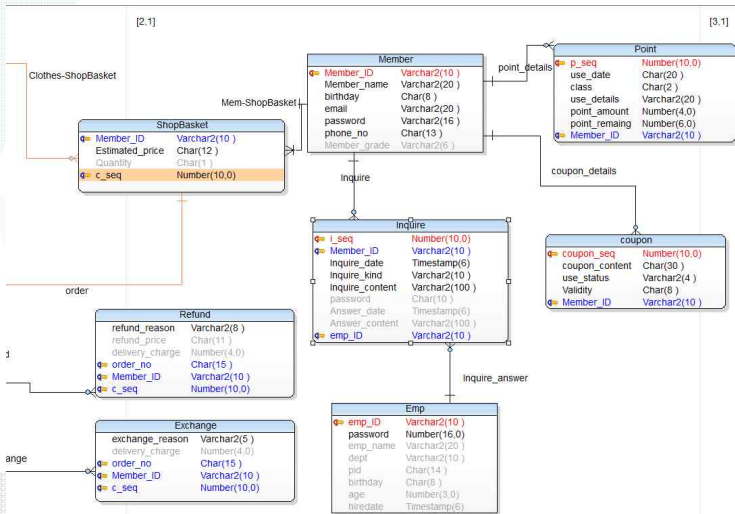
논리적 설계



물리적 설계



물리적 설계



테이블명세서

Table Name	Stock	Description	재고
Refer To		Referred By	clothes

Attribute	DataType	Caption	PK	FK	N/N	Default
location_code	Char(4)	상품위치코드	○			
stock_amount	Char(23)	재고수량				

테이블명세서

Table Name	Clothes	Description	옷
Refer To	Stock	Referred By	Review&starpoint, Order, Model, ShopBasket, Refund, Excahnge

Attribute	DataType	Caption	PK	FK	N/N	Default
c_seq	Number(10)	옷구분	○			
c_name	Varchar2(10)	상품명			○	
color	Char(10)	색상			○	
size	Char(4)	사이즈			○	
price	Char(10)	판매가			○	
discount_price	Char(10)	할인판매가				
discount_date	Char(21)	할인기간				
des	Varchar2(500)	제품설명				
sale_amount	Number(5)	판매량				
day_delivery_status	Char(8)	당일발송여부				

테이블명세서

Table Name	Clothes	Description	옷
Refer To	Stock	Referred By	Review&starpoint, Order, Model, ShopBasket, Refund, Excahnge

Attribute	DataType	Caption	PK	FK	N/N	Default
aver_starpoint	Char(5)	평균별점				
outOfStock	Char(4)	품절여부				
best	Char(1)	인기상품				
new10%	Char(1)	신상10%				
day_delivery	Char(1)	당일발송				
outer	Char(1)	아우터				
top	Char(1)	상의				
pants	Char(1)	바지				
sk&dress	Char(1)	치마&바지				
location_code	Char(4)	상품위치코드		○		

테이블명세서

Table Name	Model	Description	모델
Refer To	Clothes	Referred By	

Attribute	DataType	Caption	PK	FK	N/N	Default
model_seq	Number(10)	모델구분	○			
m_name	Varchar2(20)	모델명			○	
m_height	Number(3)	모델키			○	
m_weight	Number(3)	모델몸무게			○	
topsize	Number(2)	상의사이즈			○	
bottomsize	Number(2)	하의사이즈			○	
c_seq	Number(10)	옷구분		○		

테이블명세서

Table Name	Member	Description	회원
Refer To		Referred By	Review&starpoint, Order, ShopBasket, Refund, Exchange, Inquire, Point, Coupon

Attribute	DataType	Caption	PK	FK	N/N	Default
member_ID	Varchar2(10)	회원ID	○			
member_name	Varchar2(20)	회원명			○	
birthday	Char(8)	생년월일			○	
email	Varchar2(20)	이메일			○	
password	Varchar2(16)	비밀번호			○	
phone_no	Char(13)	휴대폰번호			○	
member_grade	Varchar2(6)	회원등급				sysdata

테이블명세서

Table Name	Emp	Description	직원
Refer To		Referred By	Inquire

Attribute	Data Type	Caption	PK	FK	N/N	Default
emp_ID	Varchar2(10)	직원ID	○			
password	Number(16)	비밀번호			○	
emp_name	Varchar2(20)	이름				
dept	Varchar2(10)	부서명				
pid	Char(14)	주민등록번호				
birthday	Char(8)	생년월일				
age	Number(3)	나이				
hiredate	Timestamp(6)	입사일자				

테이블명세서

Table Name	Point	Description	포인트
Refer To	Member	Referred By	

Attribute	DataType	Caption	PK	FK	N/N	Default
p_seq	Number(10)	포인트구분	○			
use_date	Char(20)	일자			○	
class	Char(2)	구분			○	
use_details	Varchar2(20)	사용내역			○	
point_amount	Number(4)	증감포인트			○	
point_remaining	Number(6)	잔여포인트			○	
member_ID	Varchar2(10)	회원ID		○		

테이블명세서

Table Name	Coupon	Description	쿠폰
Refer To	Member	Referred By	

Attribute	DataType	Caption	PK	FK	N/N	Default
coupon_seq	Number(10)	쿠폰구분	○			
coupon_content	Char(30)	쿠폰내용			○	
use_status	Varchar2(4)	사용여부			○	
validity	Char(8)	유효기간			○	
memberID	Varchar2(10)	회원ID			○	

테이블명세서

Table Name	Inquire	Description	문의
Refer To	Member_Emp	Referred By	

Attribute	DataType	Caption	PK	FK	N/N	Default
i_seq	Number(10)	문의구분	○			
memberID	Varchar2(10)	회원ID		○		
inquire_date	Timestamp(6)	문의날짜			○	
inquire_kind	Varchar2(10)	문의종류			○	
inquire_content	Varchar2(100)	문의내용			○	
password	Char(10)	비밀번호				
answer_date	Timestamp(6)	답변날짜				
answer_content	Varchar2(100)	답변내용				
emp_ID	Varchar2(10)	직원ID		○		

테이블명세서

Table Name	ShopBasket	Description	장바구니
Refer To	Member, Clothes	Referred By	

Attribute	DataType	Caption	PK	FK	N/N	Default
memberID	Varchar2(10)	회원ID		○		
estimated_price	Char(12)	결제예상금액			○	
quantity	Char(1)	수량				
c_seq	Number(10)	옷구분		○		

테이블명세서

Table Name	Order	Description	주문
Refer To	Member, Clothes	Referred By	Review&starpoint, Refund, Exchange

Attribute	DataType	Caption	PK	FK	N/N	Default
order_no	Char(15)	주문번호	○			
order_date	Timestamp(6)	주문일자			○	
total_order_price	Char(11)	총 주문 가격				
discount_price	Char(11)	할인된 가격				
pay_type	Char(5)	결제 방법				
total_payment	Char(11)	총 결제 가격				
delivery_location	Varchar2(50)	배송지 정보				
delivery_company	Char(10)	택배사				
transport_no	Char(12)	운송번호				
memberID	Varchar2(10)	회원ID		○		

테이블명세서

Table Name	Order	Description	주문
Refer To	Member, Clothes	Referred By	Review&starpoint, Refund, Exchange

Attribute	DataType	Caption	PK	FK	N/N	Default
c_seq	Number(10)	옷구분		○		
before_deposite	Char(1)	입금전				
deposite_check	Char(1)	입금확인				
pre_release	Char(1)	출고준비중				
deliverying	Char(1)	배송중				
delivery_com	Char(1)	배송완료				
confirm_pay	Char(1)	구매확정				
application_refund	Char(1)	환불신청				
refund_com	Char(1)	환불완료				
application_exchange	Char(1)	교환신청				
exchange_com	Char(1)	교환완료				

테이블명세서

Table Name	Refund	Description	환불
Refer To	Order, Member, Clothes	Referred By	

Attribute	DataType	Caption	PK	FK	N/N	Default
refund_reason	Varchar2(8)	환불사유			○	
refund_price	Char(11)	환불예상금액				
delivery_charge	Number(4)	별도의 배송비				
order_no	Char(15)	주문번호		○		
memberID	Varchar2(10)	회원ID		○		
c_seq	Number(10)	옷구분		○		

테이블명세서

Table Name	Exchange	Description	교환
Refer To	Order, Member, Clothes	Referred By	

Attribute	DataType	Caption	PK	FK	N/N	Default
exchange_reason	Varchar2(5)	교환사유			○	
delivery_charge	Number(4)	별도의 배송비				
order_no	Char(15)	주문번호		○		
memberID	Varchar2(10)	회원ID		○		
c_seq	Number(10)	옷구분		○		

테이블명세서

Table Name	Reivew&starpoint	Description	리뷰&별점
Refer To	Order, Member, Clothes	Referred By	

Attribute	DataType	Caption	PK	FK	N/N	Default
review_content	Varchar2(100)	리뷰내용				
starpoint	Char(5)	별점				
order_no	Char(15)	주문번호		○		
memberID	Varchar(10)	회원ID		○		
c_seq	Number(10)	옷구분		○		

DDL

TableName

Stock

```
CREATE TABLE "Stock"(  
  "location_code" Char(4 ) NOT NULL,  
  "stock_amount" Char(23 )  
)
```

```
ALTER TABLE "Stock" ADD CONSTRAINT "PK_stock" PRIMARY KEY  
("location_code")
```

DDL

TableName

```
CREATE TABLE "clothes"(  
  "c_seq" Number(10,0) NOT NULL,  
  "c_name" Varchar2(10 ) NOT  
  NULL,  
  "color" Char(10 ) NOT NULL,  
  "size" Char(4 ) NOT NULL,  
  "price" Char(10 ) NOT NULL,  
  "discount_price" Char(10 ),  
  "discount_date" Char(21 ),  
  "des" Varchar2(500 ),  
  "sale_amount" Number(5,0),  
  "Day_delivery_status" Char(8 ),
```

Clothes

```
  "aver_starpoint" Char(5 ),  
  "outOfStock" Char(4 ),  
  "location_code" Char(4 ),  
  "best" Char(1 ),  
  "new10%" Char(1 ),  
  "day_delivery" Char(1 ),  
  "outer" Char(1 ),  
  "top" Char(1 ),  
  "pants" Char(1 ),  
  "sk&dress" Char(1 )  
)
```

```
ALTER TABLE "clothes" ADD CONSTRAINT "PK_clothes" PRIMARY  
KEY ("c_seq")
```

```
ALTER TABLE "clothes" ADD CONSTRAINT "stock" FOREIGN KEY  
("location_code") REFERENCES "stock" ("location_code")
```

DDL

TableName	Model
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```
CREATE TABLE "Model"(  
  "model_seq" Number(10,0) NOT NULL,  
  "m_name" Varchar2(20 ) NOT NULL,  
  "m_height" Number(3,0) NOT NULL,  
  "m_weight" Number(3,0) NOT NULL,  
  "topsize" Number(2,0) NOT NULL,  
  "bottomsize" Number(2,0) NOT NULL,  
  "c_seq" Number(10,0) NOT NULL  
)
```

```
ALTER TABLE "Model" ADD CONSTRAINT "PK_Model" PRIMARY KEY  
("model_seq","c_seq")
```

```
ALTER TABLE "Model" ADD CONSTRAINT "Fitting" FOREIGN KEY ("c_seq")  
REFERENCES "clothes" ("c_seq")
```

DDL

TableName

Member

```
CREATE TABLE "Member"(  
  "Member_ID" Varchar2(10 ) NOT NULL,  
  "Member_name" Varchar2(20 ) NOT NULL,  
  "birthday" Char(8 ) NOT NULL,  
  "email" Varchar2(20 ) NOT NULL,  
  "password" Varchar2(16 ) NOT NULL,  
  "phone_no" Char(13 ) NOT NULL,  
  "Member_grade" Varchar2(6 ) DEFAULT Member  
)
```

```
ALTER TABLE "Member" ADD CONSTRAINT "PK_Member" PRIMARY KEY  
("Member_ID")
```

DDL

TableName

Emp

```
CREATE TABLE "Emp"(  
  "emp_ID" Varchar2(10 ) NOT NULL,  
  "password" Number(16,0) NOT NULL,  
  "emp_name" Varchar2(20 ),  
  "dept" Varchar2(10 ),  
  "pid" Char(14 ),  
  "birthday" Char(8 ),  
  "age" Number(3,0),  
  "hiredate" Timestamp(6)  
)
```

```
ALTER TABLE "Emp" ADD CONSTRAINT "PK_Emp" PRIMARY KEY  
("emp_ID")
```

DDL

TableName

Point

```
CREATE TABLE "Point"(  
  "p_seq" Number(10,0) NOT NULL,  
  "use_date" Char(20 ) NOT NULL,  
  "class" Char(2 ) NOT NULL,  
  "use_details" Varchar2(20 ) NOT NULL,  
  "point_amount" Number(4,0) NOT NULL,  
  "point_remaing" Number(6,0) NOT NULL,  
  "Member_ID" Varchar2(10 ) NOT NULL  
)
```

```
ALTER TABLE "Point" ADD CONSTRAINT "PK_Point" PRIMARY KEY  
("Member_ID","p_seq")
```

```
ALTER TABLE "Point" ADD CONSTRAINT "point_details" FOREIGN KEY ("Member_ID")  
REFERENCES "Member" ("Member_ID")
```

DDL

TableName

Coupon

```
CREATE TABLE "coupon"(  
  "coupon_seq" Number(10,0) NOT NULL,  
  "coupon_content" Char(30 ) NOT NULL,  
  "use_status" Varchar2(4 ) NOT NULL,  
  "Validity" Char(8 ) NOT NULL,  
  "Member_ID" Varchar2(10 ) NOT NULL  
)
```

```
ALTER TABLE "coupon" ADD CONSTRAINT "PK_coupon" PRIMARY KEY  
("Member_ID","coupon_seq")
```

```
ALTER TABLE "coupon" ADD CONSTRAINT "coupon_details" FOREIGN KEY ("Member_ID")  
REFERENCES "Member" ("Member_ID")
```

DDL

TableName

Inquire

```
CREATE TABLE "Inquire"(  
  "i_seq" Number(10,0) NOT NULL,  
  "Member_ID" Varchar2(10 ) NOT NULL,  
  "Inquire_date" Timestamp(6) NOT NULL,  
  "Inquire_kind" Varchar2(10 ) NOT NULL,  
  "Inquire_content" Varchar2(100 ) NOT NULL,  
  "password" Char(10 ),  
  "Answer_date" Timestamp(6),  
  "Answer_content" Varchar2(100 ),  
  "emp_ID" Varchar2(10 ) NOT NULL  
)
```

```
ALTER TABLE "Inquire" ADD CONSTRAINT "PK_Inquire" PRIMARY KEY  
("Member_ID","i_seq","emp_ID")
```

```
ALTER TABLE "Inquire" ADD CONSTRAINT "Inquire" FOREIGN KEY ("Member_ID") REFERENCES  
"Member" ("Member_ID")
```

```
ALTER TABLE "Inquire" ADD CONSTRAINT "Inquire_answer" FOREIGN KEY ("emp_ID")  
REFERENCES "Emp" ("emp_ID")
```


DDL

TableName

ShopBasket

```
CREATE TABLE "ShopBasket"(  
  "Member_ID" Varchar2(10 ) NOT NULL,  
  "Estimated_price" Char(12 ) NOT NULL,  
  "Quantity" Char(1 ),  
  "c_seq" Number(10,0) NOT NULL  
)
```

```
ALTER TABLE "ShopBasket" ADD CONSTRAINT "PK_ShopBasket" PRIMARY KEY  
("Member_ID","c_seq")
```

```
ALTER TABLE "ShopBasket" ADD CONSTRAINT "Clothes-ShopBasket" FOREIGN KEY ("c_seq")  
REFERENCES "clothes" ("c_seq")
```

```
ALTER TABLE "ShopBasket" ADD CONSTRAINT "Mem-ShopBasket" FOREIGN KEY ("Member_ID")  
REFERENCES "Member" ("Member_ID")
```

DDL

TableName	Order
<pre>CREATE TABLE "Order"("order_no" Char(15) NOT NULL, "order_date" Timestamp(6) NOT NULL, "total_order_price" Char(11), "discount_price" Char(11), "pay_type" Char(5), "total_payment" Char(11), "Delivery_location" Varchar2(50), "delivery_company" Char(10), "Transport_no" Char(12), "Member_ID" Varchar2(10) NOT NULL, "c_seq" Number(10,0) NOT NULL, "before_deposite" Char(1), "depoiste_check" Char(1), "pre_release" Char(1), "deliverying" Char(1),</pre>	<pre>"delivery_com" Char(1), "confirm_pay" Char(1), "application_refund" Char(1), "refund_com" Char(1), "application_exchange" Char(1), "exchange_com" Char(1)) ALTER TABLE "Order" ADD CONSTRAINT "PK_Order" PRIMARY KEY ("order_no","Member_ID","c_seq") ALTER TABLE "Order" ADD CONSTRAINT "order" FOREIGN KEY ("Member_ID", "c_seq") REFERENCES "ShopBasket" ("Member_ID", "c_seq")</pre>

DDL

TableName

Refund

```
CREATE TABLE "Refund"(  
  "refund_reason" Varchar2(8 ) NOT NULL,  
  "refund_price" Char(11 ),  
  "delivery_charge" Number(4,0),  
  "order_no" Char(15 ) NOT NULL,  
  "Member_ID" Varchar2(10 ) NOT NULL,  
  "c_seq" Number(10,0) NOT NULL  
)
```

```
ALTER TABLE "Refund" ADD CONSTRAINT "PK_Refund" PRIMARY KEY  
("order_no", "Member_ID", "c_seq")
```

```
ALTER TABLE "Refund" ADD CONSTRAINT "Refund" FOREIGN KEY ("order_no", "Member_ID", "c_seq")  
REFERENCES "Order" ("order_no", "Member_ID", "c_seq")
```

DDL

TableName

Exchange

```
CREATE TABLE "Exchange"(  
  "exchange_reason" Varchar2(5 ) NOT NULL,  
  "delivery_charge" Number(4,0),  
  "order_no" Char(15 ) NOT NULL,  
  "Member_ID" Varchar2(10 ) NOT NULL,  
  "c_seq" Number(10,0) NOT NULL  
)
```

```
ALTER TABLE "Exchange" ADD CONSTRAINT "PK_Exchange" PRIMARY KEY  
("order_no", "Member_ID", "c_seq")
```

```
ALTER TABLE "Exchange" ADD CONSTRAINT "Exchange" FOREIGN KEY ("order_no",  
"Member_ID", "c_seq") REFERENCES "Order" ("order_no", "Member_ID", "c_seq")
```

DDL

TableName

Review&starpoint

```
CREATE TABLE "Review&starpoint"(  
  "review_content" Varchar2(100 ),  
  "starpoint" Char(5 ),  
  "order_no" Char(15 ) NOT NULL,  
  "Member_ID" Varchar2(10 ) NOT NULL,  
  "c_seq" Number(10,0) NOT NULL  
)
```

```
ALTER TABLE "Review&starpoint" ADD CONSTRAINT "PK_Review&starpoint" PRIMARY KEY  
("order_no", "Member_ID", "c_seq")
```

```
ALTER TABLE "Review&starpoint" ADD CONSTRAINT "Review&starpoint" FOREIGN KEY ("order_no",  
"Member_ID", "c_seq") REFERENCES "Order" ("order_no", "Member_ID", "c_seq")
```