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**sellphone**

**데이터베이스 모델링**

진문장 권순찬 이희진 채송이 한건희

1. **테이블 정의서**

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| |  |  |  |  | | --- | --- | --- | --- | | **엔티티 타입명** | 상품 | **작성일** | 2020 01 15 | | **테이블명** | **PRODUCT** | **작성자** | 채송이 | | **테이블 설명** |  | | | |
| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **번호** | **컬럼명** | **속성명** | **도메인** | **데이터타입** | **NULL여부** | **기본값** | **KEY** | | 1 | product\_idx | 상품번호 | N/A | INT | Not Null |  | PK | | 2 | product\_name | 상품이름 | N/A | VARCHAR2(50) | Not Null |  |  | | 3 | product\_content | 상품설명 | N/A | VARCHAR2(1000) | Not Null |  |  | | 4 | product\_image | 상품 이미지 | N/A | VARCHAR2(1000) | Not Null |  |  | | 5 | product\_price | 상품 가격 | N/A | INT | Not Null |  |  | | 6 | product\_state | 상품 상태 | N/A | VARCHAR2(100) | Not Null |  |  | | 7 | product\_date | 상품 등록일자 | N/A | DATE | Not Null |  |  | | 8 | product\_grade | 상품 평점 | N/A | NUMBER | Not Null |  |  | | 9 | lowcategory\_idx | 소분류 번호 | N/A | INT | Not Null |  | FK | | 10 | highcategory\_idx | 대분류 번호 | N/A | INT | Not Null |  |  | | 11 | seller\_idx | 판매자 번호 | N/A | INT | Not Null |  | FK | |

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| |  |  |  |  | | --- | --- | --- | --- | | **엔티티 타입명** | 상품 저장공간 | **작성일** | 2020.01.15 | | **테이블명** | **PRODUCTSIZE** | **작성자** | 채송이 | | **테이블 설명** |  | | | |
| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **번호** | **컬럼명** | **속성명** | **도메인** | **데이터타입** | **NULL여부** | **기본값** | **KEY** | | 1 | product\_idx | 상품번호 | N/A | INT | Not Null |  | FK | | 2 | product\_storage | 상품 저장공간 | N/A | VARCHAR2(50) | Not Null |  |  | |

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| |  |  |  |  | | --- | --- | --- | --- | | **엔티티 타입명** | 상품색깔 | **작성일** | 2020.01.15 | | **테이블명** | **PRODUCTCOLOR** | **작성자** | 채송이 | | **테이블 설명** |  | | | |
| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **번호** | **컬럼명** | **속성명** | **도메인** | **데이터타입** | **NULL여부** | **기본값** | **KEY** | | 1 | product\_idx | 상품번호 | N/A | INT | Not Null |  | FK | | 2 | product\_colorcode | 상품색상코드 | N/A | VARCHAR2(50) | Not Null |  |  | |

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| |  |  |  |  | | --- | --- | --- | --- | | **엔티티 타입명** | 대분류 | **작성일** | 2020.01.15 | | 테이블명 | **HIGHCATEGORY** | **작성자** | 채송이 | | **테이블 설명** |  | | | |
| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **번호** | **컬럼명** | **속성명** | **도메인** | **데이터타입** | **NULL여부** | **기본값** | **KEY** | | 1 | highcategory\_idx | 대분류 번호 | N/A | INTEGER | Not Null |  | PK | | 2 | highcategory\_name | 대분류 이름 | N/A | VARCHAR2(50) | Not Null |  |  | |
| |  |  |  |  | | --- | --- | --- | --- | | **엔티티 타입명** | 주문 | **작성일** | 2020.01.15 | | **테이블명** | **ORDERS** | **작성자** | 채송이 | | **테이블 설명** |  | | | |
| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **번호** | **컬럼명** | **속성명** | **도메인** | **데이터타입** | **NULL여부** | **기본값** | **KEY** | | 1 | orders\_idx | 주문 고유번호 | N/A | INT | Not Null |  | PK | | 2 | orders\_date | 주문 날짜 | N/A | DATE | Not Null |  |  | | 3 | orders\_iscancel | 주문 취소여부 | N/A | VARCHAR2(1000) | Not Null |  |  | | 4 | product\_idx | 상품 번호 | N/A | INT | Not Null |  | FK | | 5 | buyer\_idx | 구매자 번호 | N/A | INT | Not Null |  | FK | | 6 | buyer\_name | 구매자 이름 | N/A | VARCHAR2(50) | Not Null |  |  | | 7 | orders\_amount | 구매 수량 | N/A | INTEGER | Not Null |  |  | | 8 | orders\_recname | 수령자 이름 | N/A | VARCHAR2(50) | Not Null |  |  | | 9 | orders\_recaddress | 수령자 주소 | N/A | VARCHAR2(1000) | Not Null |  |  | | 10 | orders\_rephone | 수령자 전화번호 | N/A | VARCHAR2(30) | Not Null |  |  | | 11 | product\_sizecode | 상품 저장공간 | N/A | VARCHAR2(50) |  |  |  | | 12 | product\_colorcode | 상품색상코드 | N/A | VARCHAR2(50) |  |  |  | |

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| |  |  |  |  | | --- | --- | --- | --- | | **엔티티 타입명** | 소분류 | **작성일** | 2020.01.15 | | **테이블명** | **LOWCATEGORY** | **작성자** | 채송이 | | **테이블 설명** |  | | | |
| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **번호** | **컬럼명** | **속성명** | **도메인** | **데이터타입** | **NULL여부** | **기본값** | **KEY** | | 1 | lowcategory\_idx | 소분류 번호 | N/A | INT | Not Null |  | PK | | 2 | highcategory\_idx | 대분류 번호 | N/A | INTEGER | Not Null |  | FK | | 3 | lowcategory\_name | 소분류 이름 | N/A | VARCHAR2(50) | Not Null |  |  | |

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| |  |  |  |  | | --- | --- | --- | --- | | **엔티티 타입명** | 구매자 | **작성일** | 2020.01.15 | | **테이블명** | **Buyer** | **작성자** | 채송이 | | **테이블 설명** |  | | | |
| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **번호** | **컬럼명** | **속성명** | **도메인** | **데이터타입** | **NULL여부** | **기본값** | **KEY** | | 1 | buyer\_idx | 구매자IDX | N/A | INT | Not Null |  | PK | | 2 | buyer\_id | 구매자 아이디 | N/A | VARCHAR2(100) | Not Null |  |  | | 3 | buyer\_pw | 구매자 비밀번호 | N/A | VARCHAR2(100) | Not Null |  |  | | 4 | buyer\_name | 구매자 이름 | N/A | VARCHAR2(50) | Not Null |  |  | | 5 | buyer\_sex | 구매자 성별 | N/A | VARCHAR2(20) | Not Null |  |  | | 6 | buyer\_address | 구매자 주소 | N/A | VARCHAR2(1000) | Not Null |  |  | | 7 | buyer\_phone | 구매자 전화번호 | N/A | VARCHAR2(30) | Not Null |  |  | | 8 | buyer\_email | 구매자 이메일 | N/A | VARCHAR2(40) | Not Null |  |  | | 9 | buyer\_birth | 구매자 생년월일 | N/A | DATE | Not Null |  |  | | 10 | buyer\_joindate | 구매자 가입일자 | N/A | DATE | Not Null |  |  | |

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| |  |  |  |  | | --- | --- | --- | --- | | **엔티티 타입명** | 판매자 | **작성일** | 2020.01.15 | | **테이블명** | **SELLER** | **작성자** | 채송이 | | **테이블 설명** |  | | | |
| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **번호** | **컬럼명** | **속성명** | **도메인** | **데이터타입** | **NULL여부** | **기본값** | **KEY** | | 1 | seller\_idx | 판매자 번호 | N/A | INT | Not Null |  | PK | | 2 | seller\_id | 판매자 아이디 | N/A | VARCHAR2(100) | Not Null |  |  | | 3 | seller\_pw | 판매자 비밀번호 | N/A | VARCHAR2(100) | Not Null |  |  | | 4 | seller\_permitnum | 판매자 등록번호 | N/A | NUMBER | Not Null |  |  | | 5 | seller\_name | 판매자 회사명 | N/A | VARCHAR2(50) | Not Null |  |  | | 6 | seller\_address | 판매자 주소 | N/A | VARCHAR2(1000) | Not Null |  |  | | 7 | seller\_email | 판매자 이메일 | N/A | VARCHAR2(40) | Not Null |  |  | | 8 | seller\_phone | 판매자 전화번호 | N/A | VARCHAR2(30) | Not Null |  |  | | 9 | seller\_business | 판매자 업종 | N/A | VARCHAR2(1000) | Not Null |  |  | | 10 | seller\_joindate | 판매자 가입일자 | N/A | DATE | Not Null |  |  | |

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| |  |  |  |  | | --- | --- | --- | --- | | **엔티티 타입명** | 질문과답변 | **작성일** | 20xx xx xx | | **테이블명** | **QNA** | **작성자** | 홍길동 | | **테이블 설명** |  | | | |
| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **번호** | **컬럼명** | **속성명** | **도메인** | **데이터타입** | **NULL여부** | **기본값** | **KEY** | | 1 | qna\_idx | QNA 인덱스 | N/A | INT | Not Null |  | PK | | 2 | buyer\_idx | 구매자IDX | N/A | INT | Not Null |  | FK | | 3 | qna\_title | QNA 제목 | N/A | VARCHAR2(100) | Not Null |  |  | | 4 | qna\_question | QNA질문 | N/A | VARCHAR2(1000) | Not Null |  |  | | 5 | qna\_answer | QNA답변 | N/A | VARCHAR2(1000) |  |  |  | | 6 | qna\_date | QNA작성일 | N/A | DATE | Not Null |  |  | |

**2.DDL**

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| /\* 상품색깔 \*/  CREATE TABLE PRODUCTCOLOR (  product\_idx INT NOT NULL, /\* 상품번호 \*/  product\_colorcode VARCHAR2(50) NOT NULL /\* 상품색상코드 \*/  );  COMMENT ON TABLE PRODUCTCOLOR IS '상품색깔';  COMMENT ON COLUMN PRODUCTCOLOR.product\_idx IS '상품번호';  COMMENT ON COLUMN PRODUCTCOLOR.product\_colorcode IS '상품색상코드';  /\* 상품 저장공간 \*/  CREATE TABLE PRODUCTSIZE (  product\_idx INT NOT NULL, /\* 상품번호 \*/  product\_storage VARCHAR2(50) NOT NULL /\* 상품 저장공간 \*/  );  COMMENT ON TABLE PRODUCTSIZE IS '상품 저장공간';  COMMENT ON COLUMN PRODUCTSIZE.product\_idx IS '상품번호';  COMMENT ON COLUMN PRODUCTSIZE.product\_storage IS '상품 저장공간';  /\* 대분류 \*/  CREATE TABLE HIGHCATEGORY (  highcategory\_idx INTEGER NOT NULL, /\* 대분류 번호 \*/  highcategory\_name VARCHAR2(50) NOT NULL /\* 대분류 이름 \*/  );  COMMENT ON TABLE HIGHCATEGORY IS '대분류';  COMMENT ON COLUMN HIGHCATEGORY.highcategory\_idx IS '대분류 번호';  COMMENT ON COLUMN HIGHCATEGORY.highcategory\_name IS '대분류 이름';  CREATE UNIQUE INDEX PK\_HIGHCATEGORY  ON HIGHCATEGORY (  highcategory\_idx ASC  );  ALTER TABLE HIGHCATEGORY  ADD  CONSTRAINT PK\_HIGHCATEGORY  PRIMARY KEY (  highcategory\_idx  );  /\* 상품 \*/  CREATE TABLE PRODUCT (  product\_idx INT NOT NULL, /\* 상품번호 \*/  product\_name VARCHAR2(50) NOT NULL, /\* 상품이름 \*/  product\_content VARCHAR2(1000) NOT NULL, /\* 상품설명 \*/  product\_image VARCHAR2(1000) NOT NULL, /\* 상품 이미지 \*/  product\_price INT NOT NULL, /\* 상품 가격 \*/  product\_state VARCHAR2(100) NOT NULL, /\* 상품 상태 \*/  product\_date DATE NOT NULL, /\* 상품 등록일자 \*/  lowcategory\_idx INT NOT NULL, /\* 소분류 번호 \*/  highcategory\_idx INT NOT NULL, /\* 대분류 번호 \*/  seller\_idx INT NOT NULL /\* 판매자 번호 \*/  );  COMMENT ON TABLE PRODUCT IS '상품';  COMMENT ON COLUMN PRODUCT.product\_idx IS '상품번호';  COMMENT ON COLUMN PRODUCT.product\_name IS '상품이름';  COMMENT ON COLUMN PRODUCT.product\_content IS '상품설명';  COMMENT ON COLUMN PRODUCT.product\_image IS '상품 이미지';  COMMENT ON COLUMN PRODUCT.product\_price IS '상품 가격';  COMMENT ON COLUMN PRODUCT.product\_state IS '상품 상태';  COMMENT ON COLUMN PRODUCT.product\_date IS '상품 등록일자';  COMMENT ON COLUMN PRODUCT.lowcategory\_idx IS '소분류 번호';  COMMENT ON COLUMN PRODUCT.highcategory\_idx IS '대분류 번호';  COMMENT ON COLUMN PRODUCT.seller\_idx IS '판매자 번호';  CREATE UNIQUE INDEX PK\_PRODUCT  ON PRODUCT (  product\_idx ASC  );  ALTER TABLE PRODUCT  ADD  CONSTRAINT PK\_PRODUCT  PRIMARY KEY (  product\_idx  );  /\* 구매자 \*/  CREATE TABLE Buyer (  buyer\_idx INT NOT NULL, /\* 구매자IDX \*/  buyer\_id VARCHAR2(100) NOT NULL, /\* 구매자 아이디 \*/  buyer\_pw VARCHAR2(100) NOT NULL, /\* 구매자 비밀번호 \*/  buyer\_name VARCHAR2(50) NOT NULL, /\* 구매자 이름 \*/  buyer\_sex VARCHAR2(20) NOT NULL, /\* 구매자 성별 \*/  buyer\_address VARCHAR2(1000) NOT NULL, /\* 구매자 주소 \*/  buyer\_phone VARCHAR2(30) NOT NULL, /\* 구매자 전화번호 \*/  buyer\_email VARCHAR2(40) NOT NULL, /\* 구매자 이메일 \*/  buyer\_birth DATE NOT NULL, /\* 구매자 생년월일 \*/  buyer\_joindate DATE NOT NULL /\* 구매자 가입일자 \*/  );  COMMENT ON TABLE Buyer IS '구매자';  COMMENT ON COLUMN Buyer.buyer\_idx IS '구매자IDX';  COMMENT ON COLUMN Buyer.buyer\_id IS '구매자 아이디';  COMMENT ON COLUMN Buyer.buyer\_pw IS '구매자 비밀번호';  COMMENT ON COLUMN Buyer.buyer\_name IS '구매자 이름';  COMMENT ON COLUMN Buyer.buyer\_sex IS '구매자 성별';  COMMENT ON COLUMN Buyer.buyer\_address IS '구매자 주소';  COMMENT ON COLUMN Buyer.buyer\_phone IS '구매자 전화번호';  COMMENT ON COLUMN Buyer.buyer\_email IS '구매자 이메일';  COMMENT ON COLUMN Buyer.buyer\_birth IS '구매자 생년월일';  COMMENT ON COLUMN Buyer.buyer\_joindate IS '구매자 가입일자';  CREATE UNIQUE INDEX PK\_Buyer  ON Buyer (  buyer\_idx ASC  );  CREATE UNIQUE INDEX UIX\_Buyer  ON Buyer (  buyer\_id ASC,  buyer\_email ASC,  buyer\_phone ASC  );  ALTER TABLE Buyer  ADD  CONSTRAINT PK\_Buyer  PRIMARY KEY (  buyer\_idx  );  ALTER TABLE Buyer  ADD  CONSTRAINT UK\_Buyer  UNIQUE (  buyer\_id,  buyer\_email,  buyer\_phone  );  /\* 소분류 \*/  CREATE TABLE LOWCATEGORY (  lowcategory\_idx INT NOT NULL, /\* 소분류 번호 \*/  highcategory\_idx INTEGER NOT NULL, /\* 대분류 번호 \*/  lowcategory\_name VARCHAR2(50) NOT NULL /\* 소분류 이름 \*/  );  COMMENT ON TABLE LOWCATEGORY IS '소분류';  COMMENT ON COLUMN LOWCATEGORY.lowcategory\_idx IS '소분류 번호';  COMMENT ON COLUMN LOWCATEGORY.highcategory\_idx IS '대분류 번호';  COMMENT ON COLUMN LOWCATEGORY.lowcategory\_name IS '소분류 이름';  CREATE UNIQUE INDEX PK\_LOWCATEGORY  ON LOWCATEGORY (  lowcategory\_idx ASC  );  ALTER TABLE LOWCATEGORY  ADD  CONSTRAINT PK\_LOWCATEGORY  PRIMARY KEY (  lowcategory\_idx  );  /\* 자주묻는질문 \*/  CREATE TABLE FAQ (  faq\_idx INT NOT NULL, /\* FAQ 인덱스 \*/  faq\_question VARCHAR2(100) NOT NULL, /\* FAQ 질문 \*/  faq\_answer VARCHAR2(1000) NOT NULL /\* FAQ 답변 \*/  );  COMMENT ON TABLE FAQ IS '자주묻는질문';  COMMENT ON COLUMN FAQ.faq\_idx IS 'FAQ 인덱스';  COMMENT ON COLUMN FAQ.faq\_question IS 'FAQ 질문';  COMMENT ON COLUMN FAQ.faq\_answer IS 'FAQ 답변';  CREATE UNIQUE INDEX PK\_FAQ  ON FAQ (  faq\_idx ASC  );  ALTER TABLE FAQ  ADD  CONSTRAINT PK\_FAQ  PRIMARY KEY (  faq\_idx  );  /\* 공지사항 \*/  CREATE TABLE NOTICE (  notice\_idx INT NOT NULL, /\* 공지 번호 \*/  notice\_title VARCHAR2(1000) NOT NULL, /\* 공지 제목 \*/  notice\_content VARCHAR2(1000) NOT NULL, /\* 공지 내용 \*/  notice\_image VARCHAR2(1000) NOT NULL, /\* 공지 이미지 \*/  notice\_date DATE NOT NULL /\* 공지 작성일 \*/  );  COMMENT ON TABLE NOTICE IS '공지사항';  COMMENT ON COLUMN NOTICE.notice\_idx IS '공지 번호';  COMMENT ON COLUMN NOTICE.notice\_title IS '공지 제목';  COMMENT ON COLUMN NOTICE.notice\_content IS '공지 내용';  COMMENT ON COLUMN NOTICE.notice\_image IS '공지 이미지';  COMMENT ON COLUMN NOTICE.notice\_date IS '공지 작성일';  CREATE UNIQUE INDEX PK\_NOTICE  ON NOTICE (  notice\_idx ASC  );  ALTER TABLE NOTICE  ADD  CONSTRAINT PK\_NOTICE  PRIMARY KEY (  notice\_idx  );  /\* 판매자 \*/  CREATE TABLE SELLER (  seller\_idx INT NOT NULL, /\* 판매자 번호 \*/  seller\_id VARCHAR2(100) NOT NULL, /\* 판매자 아이디 \*/  seller\_pw VARCHAR2(100) NOT NULL, /\* 판매자 비밀번호 \*/  seller\_permitnum NUMBER NOT NULL, /\* 판매자 등록번호 \*/  seller\_name VARCHAR2(50), /\* 판매자 회사명 \*/  seller\_address VARCHAR2(1000) NOT NULL, /\* 판매자 주소 \*/  seller\_email VARCHAR2(40) NOT NULL, /\* 판매자 이메일 \*/  seller\_phone VARCHAR2(30) NOT NULL, /\* 판매자 전화번호 \*/  seller\_business VARCHAR2(1000), /\* 판매자 업종 \*/  seller\_joindate DATE NOT NULL /\* 판매자 가입일자 \*/  );  COMMENT ON TABLE SELLER IS '판매자';  COMMENT ON COLUMN SELLER.seller\_idx IS '판매자 번호';  COMMENT ON COLUMN SELLER.seller\_id IS '판매자 아이디';  COMMENT ON COLUMN SELLER.seller\_pw IS '판매자 비밀번호';  COMMENT ON COLUMN SELLER.seller\_permitnum IS '판매자 등록번호';  COMMENT ON COLUMN SELLER.seller\_name IS '판매자 회사명';  COMMENT ON COLUMN SELLER.seller\_address IS '판매자 주소';  COMMENT ON COLUMN SELLER.seller\_email IS '판매자 이메일';  COMMENT ON COLUMN SELLER.seller\_phone IS '판매자 전화번호';  COMMENT ON COLUMN SELLER.seller\_business IS '판매자 업종';  COMMENT ON COLUMN SELLER.seller\_joindate IS '판매자 가입일자';  CREATE UNIQUE INDEX PK\_SELLER  ON SELLER (  seller\_idx ASC  );  CREATE UNIQUE INDEX UIX\_SELLER  ON SELLER (  seller\_id ASC,  seller\_permitnum ASC,  seller\_email ASC,  seller\_phone ASC,  seller\_name ASC  );  ALTER TABLE SELLER  ADD  CONSTRAINT PK\_SELLER  PRIMARY KEY (  seller\_idx  );  ALTER TABLE SELLER  ADD  CONSTRAINT UK\_SELLER  UNIQUE (  seller\_id,  seller\_permitnum,  seller\_email,  seller\_phone,  seller\_name  );  /\* 리뷰 \*/  CREATE TABLE REVIEW (  review\_idx INT NOT NULL, /\* 후기 번호 \*/  product\_idx INT NOT NULL, /\* 상품번호 \*/  buyer\_idx INT NOT NULL, /\* 구매자IDX \*/  buyer\_nick VARCHAR2(100) NOT NULL, /\* 구매자 닉네임 \*/  review\_content VARCHAR2(1000) NOT NULL, /\* 후기 글 내용 \*/  review\_date DATE NOT NULL, /\* 후기 날짜 \*/  review\_grade INTEGER NOT NULL /\* 후기 평점 \*/  );  COMMENT ON TABLE REVIEW IS '리뷰';  COMMENT ON COLUMN REVIEW.review\_idx IS '후기 번호';  COMMENT ON COLUMN REVIEW.product\_idx IS '상품번호';  COMMENT ON COLUMN REVIEW.buyer\_idx IS '구매자IDX';  COMMENT ON COLUMN REVIEW.buyer\_nick IS '구매자 닉네임';  COMMENT ON COLUMN REVIEW.review\_content IS '후기 글 내용';  COMMENT ON COLUMN REVIEW.review\_date IS '후기 날짜';  COMMENT ON COLUMN REVIEW.review\_grade IS '후기 평점';  CREATE UNIQUE INDEX PK\_REVIEW  ON REVIEW (  review\_idx ASC  );  ALTER TABLE REVIEW  ADD  CONSTRAINT PK\_REVIEW  PRIMARY KEY (  review\_idx  );  /\* 장바구니 \*/  CREATE TABLE BASKET (  basket\_idx INT NOT NULL, /\* 장바구니품목번호 \*/  buyer\_idx INT NOT NULL, /\* 구매자IDX \*/  product\_idx INT NOT NULL, /\* 상품번호 \*/  basket\_amount INT NOT NULL, /\* 구매수량 \*/  product\_storage VARCHAR2(50), /\* 상품 저장공간 \*/  product\_colorcode VARCHAR2(50) /\* 상품 색상코드 \*/  );  COMMENT ON TABLE BASKET IS '장바구니';  COMMENT ON COLUMN BASKET.basket\_idx IS '장바구니품목번호';  COMMENT ON COLUMN BASKET.buyer\_idx IS '구매자IDX';  COMMENT ON COLUMN BASKET.product\_idx IS '상품번호';  COMMENT ON COLUMN BASKET.basket\_amount IS '구매수량';  COMMENT ON COLUMN BASKET.product\_storage IS '상품 저장공간';  COMMENT ON COLUMN BASKET.product\_colorcode IS '상품 색상코드';  CREATE UNIQUE INDEX PK\_BASKET  ON BASKET (  basket\_idx ASC  );  ALTER TABLE BASKET  ADD  CONSTRAINT PK\_BASKET  PRIMARY KEY (  basket\_idx  );  /\* 주문 \*/  CREATE TABLE ORDERS (  orders\_idx INT NOT NULL, /\* 주문 고유번호 \*/  orders\_date DATE NOT NULL, /\* 주문 날짜 \*/  orders\_iscancel VARCHAR2(1000) NOT NULL, /\* 주문 취소여부 \*/  product\_idx INT NOT NULL, /\* 상품 번호 \*/  buyer\_idx INT NOT NULL, /\* 구매자 번호 \*/  orders\_amount INTEGER NOT NULL, /\* 구매 수량 \*/  orders\_recname VARCHAR2(50) NOT NULL, /\* 수령자 이름 \*/  orders\_recaddress VARCHAR2(1000) NOT NULL, /\* 수령자 주소 \*/  orders\_rephone VARCHAR2(30) NOT NULL, /\* 수령자 전화번호 \*/  product\_sizecode VARCHAR2(50), /\* 상품 저장공간 \*/  product\_colorcode VARCHAR2(50) /\* 상품색상코드 \*/  );  COMMENT ON TABLE ORDERS IS '주문';  COMMENT ON COLUMN ORDERS.orders\_idx IS '주문 고유번호';  COMMENT ON COLUMN ORDERS.orders\_date IS '주문 날짜';  COMMENT ON COLUMN ORDERS.orders\_iscancel IS '주문 취소여부';  COMMENT ON COLUMN ORDERS.product\_idx IS '상품 번호';  COMMENT ON COLUMN ORDERS.buyer\_idx IS '구매자 번호';  COMMENT ON COLUMN ORDERS.orders\_amount IS '구매 수량';  COMMENT ON COLUMN ORDERS.orders\_recname IS '수령자 이름';  COMMENT ON COLUMN ORDERS.orders\_recaddress IS '수령자 주소';  COMMENT ON COLUMN ORDERS.orders\_rephone IS '수령자 전화번호';  COMMENT ON COLUMN ORDERS.product\_sizecode IS '상품 저장공간';  COMMENT ON COLUMN ORDERS.product\_colorcode IS '상품색상코드';  CREATE UNIQUE INDEX PK\_ORDERS  ON ORDERS (  orders\_idx ASC  );  ALTER TABLE ORDERS  ADD  CONSTRAINT PK\_ORDERS  PRIMARY KEY (  orders\_idx  );  /\* 질문과답변 \*/  CREATE TABLE QNA (  qna\_idx INT NOT NULL, /\* QNA 인덱스 \*/  buyer\_idx INT NOT NULL, /\* 구매자IDX \*/  qna\_title VARCHAR2(100) NOT NULL, /\* QNA 제목 \*/  qna\_question VARCHAR2(1000) NOT NULL, /\* QNA질문 \*/  qna\_answer VARCHAR2(1000), /\* QNA답변 \*/  qna\_date DATE NOT NULL /\* QNA작성일 \*/  );  COMMENT ON TABLE QNA IS '질문과답변';  COMMENT ON COLUMN QNA.qna\_idx IS 'QNA 인덱스';  COMMENT ON COLUMN QNA.buyer\_idx IS '구매자IDX';  COMMENT ON COLUMN QNA.qna\_title IS 'QNA 제목';  COMMENT ON COLUMN QNA.qna\_question IS 'QNA질문';  COMMENT ON COLUMN QNA.qna\_answer IS 'QNA답변';  COMMENT ON COLUMN QNA.qna\_date IS 'QNA작성일';  CREATE UNIQUE INDEX PK\_QNA  ON QNA (  qna\_idx ASC  );  ALTER TABLE QNA  ADD  CONSTRAINT PK\_QNA  PRIMARY KEY (  qna\_idx  );  /\* 상품문의 \*/  CREATE TABLE PRODUCTQNA (  productqna\_idx INT NOT NULL, /\* 상품문의 인덱스 \*/  product\_idx INT NOT NULL, /\* 상품번호 \*/  buyer\_idx INT NOT NULL, /\* 구매자IDX \*/  buyer\_nick VARCHAR2(100) NOT NULL, /\* 구매자 닉네임 \*/  productqna\_question VARCHAR2(1000) NOT NULL, /\* 상품문의 질문 \*/  productqna\_answer VARCHAR2(1000), /\* 상품문의 답변 \*/  productqna\_date DATE NOT NULL /\* 상품문의 작성일 \*/  );  COMMENT ON TABLE PRODUCTQNA IS '상품문의';  COMMENT ON COLUMN PRODUCTQNA.productqna\_idx IS '상품문의 인덱스';  COMMENT ON COLUMN PRODUCTQNA.product\_idx IS '상품번호';  COMMENT ON COLUMN PRODUCTQNA.buyer\_idx IS '구매자IDX';  COMMENT ON COLUMN PRODUCTQNA.buyer\_nick IS '구매자 닉네임';  COMMENT ON COLUMN PRODUCTQNA.productqna\_question IS '상품문의 질문';  COMMENT ON COLUMN PRODUCTQNA.productqna\_answer IS '상품문의 답변';  COMMENT ON COLUMN PRODUCTQNA.productqna\_date IS '상품문의 작성일';  CREATE UNIQUE INDEX PK\_PRODUCTQNA  ON PRODUCTQNA (  productqna\_idx ASC  );  ALTER TABLE PRODUCTQNA  ADD  CONSTRAINT PK\_PRODUCTQNA  PRIMARY KEY (  productqna\_idx  );  ALTER TABLE PRODUCTCOLOR  ADD  CONSTRAINT FK\_PRODUCT\_TO\_PRODUCTCOLOR  FOREIGN KEY (  product\_idx  )  REFERENCES PRODUCT (  product\_idx  );  ALTER TABLE PRODUCTSIZE  ADD  CONSTRAINT FK\_PRODUCT\_TO\_PRODUCTSIZE  FOREIGN KEY (  product\_idx  )  REFERENCES PRODUCT (  product\_idx  );  ALTER TABLE PRODUCT  ADD  CONSTRAINT FK\_LOWCATEGORY\_TO\_PRODUCT  FOREIGN KEY (  lowcategory\_idx  )  REFERENCES LOWCATEGORY (  lowcategory\_idx  );  ALTER TABLE PRODUCT  ADD  CONSTRAINT FK\_SELLER\_TO\_PRODUCT  FOREIGN KEY (  seller\_idx  )  REFERENCES SELLER (  seller\_idx  );  ALTER TABLE LOWCATEGORY  ADD  CONSTRAINT FK\_HIGHCATEGORY\_TO\_LOWCATEGORY  FOREIGN KEY (  highcategory\_idx  )  REFERENCES HIGHCATEGORY (  highcategory\_idx  );  ALTER TABLE REVIEW  ADD  CONSTRAINT FK\_Buyer\_TO\_REVIEW  FOREIGN KEY (  buyer\_idx  )  REFERENCES Buyer (  buyer\_idx  );  ALTER TABLE REVIEW  ADD  CONSTRAINT FK\_PRODUCT\_TO\_REVIEW  FOREIGN KEY (  product\_idx  )  REFERENCES PRODUCT (  product\_idx  );  ALTER TABLE BASKET  ADD  CONSTRAINT FK\_Buyer\_TO\_BASKET  FOREIGN KEY (  buyer\_idx  )  REFERENCES Buyer (  buyer\_idx  );  ALTER TABLE BASKET  ADD  CONSTRAINT FK\_PRODUCT\_TO\_BASKET  FOREIGN KEY (  product\_idx  )  REFERENCES PRODUCT (  product\_idx  );  ALTER TABLE ORDERS  ADD  CONSTRAINT FK\_PRODUCT\_TO\_ORDERS  FOREIGN KEY (  product\_idx  )  REFERENCES PRODUCT (  product\_idx  );  ALTER TABLE ORDERS  ADD  CONSTRAINT FK\_Buyer\_TO\_ORDERS  FOREIGN KEY (  buyer\_idx  )  REFERENCES Buyer (  buyer\_idx  );  ALTER TABLE QNA  ADD  CONSTRAINT FK\_Buyer\_TO\_QNA  FOREIGN KEY (  buyer\_idx  )  REFERENCES Buyer (  buyer\_idx  );  ALTER TABLE PRODUCTQNA  ADD  CONSTRAINT FK\_PRODUCT\_TO\_PRODUCTQNA  FOREIGN KEY (  product\_idx  )  REFERENCES PRODUCT (  product\_idx  );  ALTER TABLE PRODUCTQNA  ADD  CONSTRAINT FK\_Buyer\_TO\_PRODUCTQNA  FOREIGN KEY (  buyer\_idx  )  REFERENCES Buyer (  buyer\_idx  ); |

1. **DML**

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| **일련번호** | **기능** | **DML** |
| **1-1.** | **회원관리**  **-구매자** | --BUYER의 BUYER\_IDX 값을 시퀀스 설정하여 중복값 제거하기. (시퀀스 생성 참고.)  CREATE SEQUENCE BUYER\_NO  INCREMENT BY 1  START WITH 1;  DESC USER\_SEQUENCES  SELECT SEQUENCE\_NAME, MIN\_VALUE, MAX\_VALUE,  INCREMENT\_BY, CYCLE\_FLAG  FROM USER\_SEQUENCES;  SELECT BUYER\_NO.CURRVAL FROM DUAL;  DROP SEQUENCE BUYER\_NO;  UNIQUE 설정 eXERD 에서 설정 가능 ( 사용자 ID )  --사용자 회원가입  INSERT INTO BUYER VALUES(BUYER\_NO.NEXTVAL,'IDIDIDID','00000','이름','닉네임','성','경기도 안양시 관악구','000-000-0000','EMAIL@EMAIL.COM','2015-12-14',SYSDATE);  --회원정보 수정  UPDATE BUYER SET BUYER\_ID='BUYERID'  WHERE BUYER\_IDX=1;  --회원 탈퇴  DELETE FROM BUYER  WHERE BUYER\_IDX = 1;  --확인  SELECT \* FROM BUYER;  --로그인  SELECT BUYER\_NAME || '님, 로그인 하셨습니다.' FROM BUYER WHERE BUYER\_ID = 'BUYERID' AND BUYER\_PW = '00000'; |
| **1-2** | **회원관리**  **-판매자** | --판매자 인덱스 시퀀스  CREATE SEQUENCE SELLER\_IDXNO  INCREMENT BY 1  START WITH 1;  --판매자 등록번호 시퀀스  CREATE SEQUENCE SELLER\_PERNO  INCREMENT BY 1  START WITH 10;  --<시퀀스 삭제 참고>  DROP SEQUENCE SELLER\_IDXNO;  DROP SEQUENCE SELLER\_PERNO;  UNIQUE 설정 eXERD 에서 설정 가능 ( 판매자 ID )  --셀러 회원가입  INSERT INTO SELLER VALUES(SELLER\_IDXNO.NEXTVAL,'IDIDIDID','00000',SELLER\_PERNO.NEXTVAL,'회사명','경기도 안양시','EMAILL.COM','010-0000-0000','도매업',SYSDATE);  --셀러 회원정보 수정  UPDATE SELLER SET SELLER\_ID='찐아이디'  WHERE SELLER\_IDX=1;  --회원 탈퇴  DELETE FROM SELLER  WHERE SELLER\_IDX = 1;  --확인  SELECT \* FROM SELLER;  SELECT SELLER\_NAME || '님, 로그인 하셨습니다.' FROM SELLER WHERE SELLER\_ID = 'IDIDIDID' AND SELLER\_PW = '00000'; |
| **2** | **주문관리** | --ORDER 생성  CREATE SEQUENCE ORDERS\_SEQUENCE  START WITH 1  INCREMENT BY 1;  INSERT INTO ORDERS VALUES(1,TO\_DATE('1997-02-13','YYYY-MM-DD'),'YES',1,'갤럭시','T',7000,1,'권','서울 특별시','asdfSADF@naver.com','010-2740-7662',1,'권','강서구','010-1414','창고,파랑');  INSERT INTO ORDERS VALUES(2,TO\_DATE('1997-02-13','YYYY-MM-DD'),'YES',1,'엘지','T',7000,1,'권','서울 특별시','asdASDFf@naver.com','010-2740-7662',1,'순','화곡동','010-1414','창고','노랑');  INSERT INTO ORDERS VALUES(3,TO\_DATE('1997-02-13','YYYY-MM-DD'),'YES',1,'아이폰','T',7000,1,'권','서울 특별시','asdSDFf@naver.com','010-2740-7662',1,'찬','가양동','010-1414','창고','보라');  INSERT INTO ORDERS VALUES(4,TO\_DATE('1997-02-13','YYYY-MM-DD'),'YES',1,'화웨이','T',7000,1,'권','서울 특별시','ASDFdf@naver.com','010-2740-7662',1,'순','우장산동','010-1414','창고','주황');  --상품 수정  UPDATE ORDERS SET PRODUCT\_PRICE= 10000 WHERE ORDERS\_IDX=1;  UPDATE ORDERS SET PRODUCT\_NAME='모토롤라' WHERE ORDERS\_IDX=1;  UPDATE ORDERS SET BUYER\_NAME='엘지',PRODUCT\_COLORCODE='그린' WHERE ORDERS\_IDX=2; --  UPDATE ORDERS SET BUYER\_PHONE='010-5555-7777',PRODUCT\_COLORCODE='그린' WHERE ORDERS\_IDX=2;  UPDATE ORDERS SET BUYER\_PHONE='010-00000',PRODUCT\_SIZECODE='현장',BUYER\_ADDRESS='대전 광역시' WHERE ORDERS\_IDX=3;  --상품 삭제  DELETE FROM ORDERS WHERE ORDERS\_IDX = 1;  DELETE FROM ORDERS WHERE ORDERS\_IDX = 2;  DELETE FROM ORDERS WHERE ORDERS\_IDX = 3;  --상품 조회  SELECT \* FROM ORDERS; |
| **3** | **상품정렬** | --가격이 낮은 순으로--  SELECT PRODUCT\_NAME  FROM PRODUCT  ORDER BY PRODUCT\_PRICE;  --가격이 높은 순으로--  SELECT PRODUCT\_NAME  FROM PRODUCT  ORDER BY PRODUCT\_PRICE DESC;  --날짜 최신순으로--  SELECT PRODUCT\_NAME  FROM PRODUCT  ORDER BY PRODUCT\_DATE DESC;  --상품 이름 순으로--  SELECT PRODUCT\_NAME  FROM PRODUCT  ORDER BY PRODUCT\_NAME; |
| **4** | **상품관리** | --HIGHCATEGORY 대분류 생성  -- DROP SEQUENCE HIGH\_NO;  CREATE SEQUENCE HIGH\_NO  INCREMENT BY 1  START WITH 1;  -- DELETE FROM HIGHCATEGORY  -- WHERE HIGHCATEGORY\_IDX > 999;  INSERT INTO HIGHCATEGORY VALUES(HIGH\_NO.NEXTVAL,'5G핸드폰');  INSERT INTO HIGHCATEGORY VALUES(HIGH\_NO.NEXTVAL,'핸드폰');  INSERT INTO HIGHCATEGORY VALUES(HIGH\_NO.NEXTVAL,'악세사리');  --확인  SELECT \* FROM HIGHCATEGORY;  --LOWCATEGORY 소분류 생성  --DROP SEQUENCE LOW\_NO;  CREATE SEQUENCE LOW\_NO  INCREMENT BY 1  START WITH 1;  --DELETE FROM LOWCATEGORY  --WHERE LOWCATEGORY\_IDX < 5 ;  INSERT INTO LOWCATEGORY VALUES(LOW\_NO.NEXTVAL,1,'삼성');  INSERT INTO LOWCATEGORY VALUES(1,1,'샤오미'); //오류 기본키 확인  INSERT INTO LOWCATEGORY VALUES(LOW\_NO.NEXTVAL,3,'애플');  --확인  SELECT \* FROM LOWCATEGORY;  -- SELLER 판매자 번호  DROP SEQUENCE SEL\_NO;  CREATE SEQUENCE SEL\_NO  INCREMENT BY 1  START WITH 1; // 시퀀스 임의로 지정  INSERT INTO SELLER VALUES(SEL\_NO.NEXTVAL,'판매자ID','PASSWORD',11,'테스트주식회사','경기도안양시','test@tes.co','03177','판매업','2020-02-02');  -- 확인  SELECT \* FROM SELLER;  --PRODUCT 상품, 생성, 수정, 삭제, 조회 기능  -- 시퀀스 연결  --DROP SEQUENCE PRO\_NO;  CREATE SEQUENCE PRO\_NO  INCREMENT BY 1  START WITH 1;  -- 상품 INSERT  INSERT INTO PRODUCT VALUES(PRO\_NO.NEXTVAL,'갤럭시노트9','2020년 최대의 폰','image',990000,'S급','2020-01-01',5,1,1,1);  SELECT \* FROM PRODUCT;  -- 상품 수정  UPDATE PRODUCT  SET product\_name = '갤럭시S11'  WHERE PRODUCT\_IDX = 1 ;  SELECT \* FROM PRODUCT;  -- 상품 삭제  DELETE FROM PRODUCT  WHERE PRODUCT\_IDX = 1;  SELECT \* FROM PRODUCT;  -- 상품 조회  SELECT \* FROM PRODUCT  WHERE product\_name = '갤럭시S11'; |
| **5** | **게시판관리** | --SEQUENCE 생성--  DROP SEQUENCE QNA\_IDX\_SEQUENCE;  CREATE SEQUENCE QNA\_IDX\_SEQUENCE  START WITH 1  INCREMENT BY 1  MINVALUE 1  MAXVALUE 5000;  --QNA 생성--  INSERT INTO QNA VALUES(QNA\_IDX\_SEQUENCE.NEXTVAL,1,'상품 구입 문의','상품 구입 문의~~',NULL,TO\_DATE('2020-07-01','YYYY-MM-DD'));  INSERT INTO QNA VALUES(QNA\_IDX\_SEQUENCE.NEXTVAL,2,'로그인이 안돼요','로그인이 안됩니다.',NULL,TO\_DATE('2020-07-05','YYYY-MM-DD'));  INSERT INTO QNA VALUES(QNA\_IDX\_SEQUENCE.NEXTVAL,3,'주소를 잘못 적었어요','어떻게 바꾸나요',NULL,TO\_DATE('2020-08-13','YYYY-MM-DD'));  INSERT INTO QNA VALUES(QNA\_IDX\_SEQUENCE.NEXTVAL,4,'언제오나요??','제발 와주세요',NULL,TO\_DATE('2020-08-20','YYYY-MM-DD'));  --QNA 수정--  UPDATE QNA SET QNA\_ANSWER ='문의 해주신 내용을 처리 했습니다.' WHERE QNA\_IDX = 1;  UPDATE QNA SET QNA\_ANSWER ='아이디/비밀번호 찾기를 이용해주시기 바랍니다.' WHERE QNA\_IDX = 2;  UPDATE QNA SET QNA\_ANSWER ='주문내역 수정을 이용해주시기 바랍니다.' WHERE QNA\_IDX = 3;  UPDATE QNA SET QNA\_ANSWER ='저도 궁금하네요.' WHERE QNA\_IDX = 4;  --QNA 삭제--  DELETE FROM QNA WHERE QNA\_IDX=1;  DELETE FROM QNA WHERE QNA\_IDX=4;  DELETE FROM QNA WHERE QNA\_IDX=2; |