

## **(01-4) 데이터베이스 설계**

**Gaillardia / Flo:be(플로비) - 플라워 카페 정보 제공 및 상품 주문/예약 서비스**



[DDL]

CREATE SEQUENCE Sequence\_cartItem;

CREATE SEQUENCE Sequence\_class;

CREATE SEQUENCE Sequence\_lineItem;

CREATE SEQUENCE Sequence\_order;

CREATE SEQUENCE Sequence\_product;

CREATE SEQUENCE Sequence\_qna;

CREATE SEQUENCE Sequence\_reply;

CREATE SEQUENCE Sequence\_reservation;

CREATE SEQUENCE Sequence\_review;

CREATE TABLE seller

```
(
    sellerId          VARCHAR2(30) NOT NULL ,
    name              VARCHAR2(30) NOT NULL ,
    pwd               VARCHAR2(30) NOT NULL ,
    phone             VARCHAR2(30) NOT NULL ,
    email             VARCHAR2(30) NOT NULL
);
```

CREATE UNIQUE INDEX XPKseller ON seller

(sellerId ASC);

ALTER TABLE seller

ADD CONSTRAINT XPKseller PRIMARY KEY (sellerId);

CREATE TABLE class

```
(
    classId          NUMBER NOT NULL ,
    name             VARCHAR2(45) NOT NULL ,
    classDate        DATE NULL ,
    maxNum           NUMBER NULL ,
    currrentNum      NUMBER NULL ,
    sellerId         VARCHAR2(30) NOT NULL
);
```

CREATE UNIQUE INDEX XPKclass ON class

(classId ASC);

ALTER TABLE class

ADD CONSTRAINT XPKclass PRIMARY KEY (classId);

CREATE TABLE customer

```
(
    customerId       VARCHAR2(30) NOT NULL ,
    name             VARCHAR2(30) NOT NULL ,
    pwd              VARCHAR2(30) NOT NULL ,
    phone            VARCHAR2(30) NOT NULL ,
    email            VARCHAR2(30) NOT NULL ,
    address          VARCHAR2(50) NOT NULL
);
```

CREATE UNIQUE INDEX XPKcustomer ON customer

(customerId ASC);

ALTER TABLE customer

ADD CONSTRAINT XPKcustomer PRIMARY KEY (customerId);

CREATE TABLE order

```
(
    orderId          NUMBER NOT NULL ,
    creationDate     DATE NULL ,
    customerId       VARCHAR2(30) NOT NULL ,
    address          VARCHAR2(30) NULL
);
```

CREATE UNIQUE INDEX XPKorder ON order

(orderId ASC);

ALTER TABLE order

ADD CONSTRAINT XPKorder PRIMARY KEY (orderId);

CREATE TABLE reservation

```
(
    reservationId    NUMBER NOT NULL ,
    classId          NUMBER NOT NULL ,
    customerId       VARCHAR2(30) NOT NULL
);
```

CREATE UNIQUE INDEX XPKreservation ON reservation

(reservationId ASC);

ALTER TABLE reservation

ADD CONSTRAINT XPKreservation PRIMARY KEY (reservationId);

CREATE TABLE product

```
(
    productId        NUMBER NOT NULL ,
    price            NUMBER NULL ,
    description       VARCHAR2(1200) NULL ,
    type             VARCHAR2(30) NULL ,
    category         VARCHAR2(21) NULL ,
    sellerId         VARCHAR2(30) NOT NULL ,
    name             VARCHAR2(30) NOT NULL
);
```

CREATE UNIQUE INDEX XPKproduct ON product

(productId ASC);

ALTER TABLE product

ADD CONSTRAINT XPKproduct PRIMARY KEY (productId);

CREATE TABLE review

```
(
    reviewId        NUMBER NOT NULL ,
    title           VARCHAR2(90) NULL ,
    content         VARCHAR2(1200) NULL ,
    creationDate    DATE NULL ,
    viewCount       NUMBER NULL ,
    rate            NUMBER(1) NULL ,
    customerId      VARCHAR2(30) NOT NULL ,
    productId       NUMBER NOT NULL
);
```

CREATE UNIQUE INDEX XPKreview ON review

(reviewId ASC);

ALTER TABLE review

ADD CONSTRAINT XPKreview PRIMARY KEY (reviewId);

CREATE TABLE cartItem

```
(
    cartItemId       NUMBER NOT NULL ,
    quantity         NUMBER NULL ,
```

```

        customerId      VARCHAR2(30) NOT NULL ,
        productId       NUMBER  NOT NULL
    );

CREATE UNIQUE INDEX XPKcartItem ON cartItem
(cartItemId ASC);

ALTER TABLE cartItem
    ADD CONSTRAINT XPKcartItem PRIMARY KEY
(cartItemId);

CREATE TABLE lineItem
(
    lineItemId          VARCHAR2(30) NOT NULL ,
    productId           NUMBER  NOT NULL ,
    orderId             NUMBER  NOT NULL ,
    quantity            NUMBER  NULL ,
    price               NUMBER  NULL
);

CREATE UNIQUE INDEX XPKlineItem ON lineItem
(lineItemId ASC);

ALTER TABLE lineItem
    ADD CONSTRAINT XPKlineItem PRIMARY KEY
(lineItemId);

CREATE TABLE qna
(
    qnaId              NUMBER  NOT NULL ,
    title              VARCHAR2(90) NULL ,
    content             VARCHAR2(1200) NULL ,
    creationDate        DATE  NULL ,
    viewCount           NUMBER  NULL ,
    pwd                 VARCHAR2(30) NULL ,
    customerId          VARCHAR2(30) NOT NULL ,
    productId           NUMBER  NOT NULL
);

CREATE UNIQUE INDEX XPKqna ON qna
(qnaId ASC);

ALTER TABLE qna
    ADD CONSTRAINT XPKqna PRIMARY KEY (qnaId);

CREATE TABLE reply
(
    content             VARCHAR2(1200) NULL ,
    creationDate        DATE  NULL ,
    sellerId            VARCHAR2(30) NOT NULL ,
    qnaId               NUMBER  NOT NULL
);

CREATE UNIQUE INDEX XPKreply ON reply
(qnaId ASC);

ALTER TABLE reply
    ADD CONSTRAINT XPKreply PRIMARY KEY (qnaId);

ALTER TABLE class
    ADD (
CONSTRAINT R_13 FOREIGN KEY (sellerId) REFERENCES seller
(sellerId));

ALTER TABLE order
    ADD (
CONSTRAINT R_21 FOREIGN KEY (customerId) REFERENCES customer
(customerId));

```

```

ALTER TABLE reservation
    ADD (
CONSTRAINT R_16 FOREIGN KEY (classId) REFERENCES class (classId));

ALTER TABLE reservation
    ADD (
CONSTRAINT R_17 FOREIGN KEY (customerId) REFERENCES customer
(customerId));

ALTER TABLE product
    ADD (
CONSTRAINT R_12 FOREIGN KEY (sellerId) REFERENCES seller
(sellerId));

ALTER TABLE review
    ADD (
CONSTRAINT R_14 FOREIGN KEY (customerId) REFERENCES customer
(customerId));

ALTER TABLE review
    ADD (
CONSTRAINT R_15 FOREIGN KEY (productId) REFERENCES product
(productId));

ALTER TABLE cartItem
    ADD (
CONSTRAINT R_18 FOREIGN KEY (customerId) REFERENCES customer
(customerId));

ALTER TABLE cartItem
    ADD (
CONSTRAINT R_19 FOREIGN KEY (productId) REFERENCES product
(productId));

ALTER TABLE lineItem
    ADD (
CONSTRAINT R_29 FOREIGN KEY (productId) REFERENCES product
(productId));

ALTER TABLE lineItem
    ADD (
CONSTRAINT R_30 FOREIGN KEY (orderId) REFERENCES order
(orderId));

ALTER TABLE qna
    ADD (
CONSTRAINT R_7 FOREIGN KEY (customerId) REFERENCES customer
(customerId));

ALTER TABLE qna
    ADD (
CONSTRAINT R_10 FOREIGN KEY (productId) REFERENCES product
(productId));

ALTER TABLE reply
    ADD (
CONSTRAINT R_2 FOREIGN KEY (sellerId) REFERENCES seller (sellerId));

ALTER TABLE reply
    ADD (
CONSTRAINT R_4 FOREIGN KEY (qnaId) REFERENCES qna (qnaId));

```