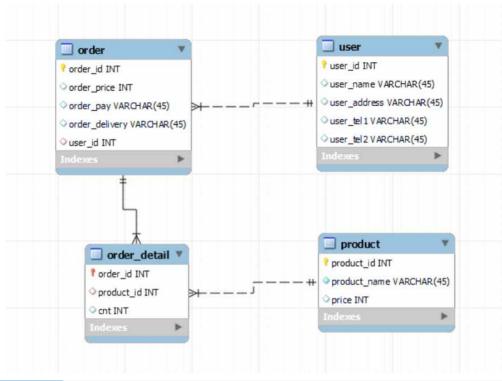
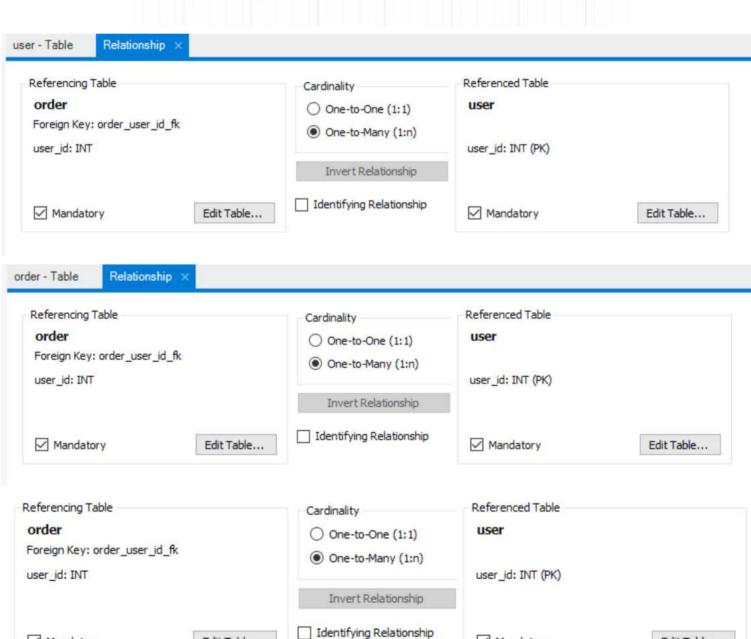
```
과제 내용
➤ 상품을 주문하는 주문 시스템을 구축하려 한다.
한 번 주문 시 여러 상품을 한꺼번에 주문하여 결제가능하다.
아래와 같은 정보를 저장하고 관리하고자 할 때 정규화를 적용하여 테이블 설계를 구현하세요.
필요하다면 제시된 정보 이외에 필요한 데이터항목을 자유롭게 추가하여 설계한다.
주문번호, 주문금액, 결제여부, 배송여부, 상품코드, 상품명, 가격, 수량, 고객번호, 고객명, 고객주소, 고객 연락처 1, 고객연락처 2
-- MySQL Workbench Forward Engineering
SET @OLD_UNIQUE_CHECKS=@@UNIQUE_CHECKS, UNIQUE_CHECKS=0;
SET @OLD_FOREIGN_KEY_CHECKS=@@FOREIGN_KEY_CHECKS, FOREIGN_KEY_CHECKS=0;
SET
                                                                  @OLD_SQL_MODE=@@SQL_MODE,
SQL_MODE='ONLY_FULL_GROUP_BY,STRICT_TRANS_TABLES,NO_ZERO_IN_DATE,NO_ZERO_DATE,ERROR_FOR_DIVISION
BY ZERO, NO ENGINE SUBSTITUTION';
-- Schema OrderSystem
-- Schema OrderSystem
CREATE SCHEMA IF NOT EXISTS 'OrderSystem' DEFAULT CHARACTER SET utf8;
USE `OrderSystem`;
-- Table `OrderSystem`, `user`
DROP TABLE IF EXISTS `OrderSystem`.`user`;
CREATE TABLE IF NOT EXISTS 'OrderSystem'.'user' (
 `user_id` INT NOT NULL,
  `user_name` VARCHAR(45) NULL,
 `user address` VARCHAR(45) NULL,
 `user_tel1` VARCHAR(45) NULL,
 `user_tel2` VARCHAR(45) NULL,
 PRIMARY KEY (`user_id`))
ENGINE = InnoDB;
-- Table `OrderSystem`.`order`
DROP TABLE IF EXISTS `OrderSystem`.`order`;
CREATE TABLE IF NOT EXISTS `OrderSystem`.`order` (
  `order_id` INT NOT NULL AUTO_INCREMENT,
  `order_price` INT NULL,
 `order_pay` VARCHAR(45) NULL,
  `order_delivery` VARCHAR(45) NULL DEFAULT 'N',
 `user_id` INT NULL,
 PRIMARY KEY (`order_id`),
 INDEX `order_user_id_fk_idx` (`user_id` ASC) VISIBLE,
 CONSTRAINT `order_user_id_fk`
   FOREIGN KEY (`user_id`)
```

```
REFERENCES `OrderSystem`.`user` (`user_id`)
   ON DELETE NO ACTION
   ON UPDATE NO ACTION)
ENGINE = InnoDB;
-- -----
-- Table `OrderSystem`.`product`
DROP TABLE IF EXISTS `OrderSystem`.`product`;
CREATE TABLE IF NOT EXISTS 'OrderSystem'.'product' (
  `product_id` INT NOT NULL,
  `product_name` VARCHAR(45) NOT NULL,
 `price` INT NULL,
 PRIMARY KEY (`product_id`))
ENGINE = InnoDB;
-- Table `OrderSystem`.`order_detail`
-- ------
DROP TABLE IF EXISTS 'OrderSystem', 'order detail';
CREATE TABLE IF NOT EXISTS 'OrderSystem'.'order_detail' (
  `order_id` INT NOT NULL,
  `product_id` INT NULL,
 `cnt` INT NULL,
 PRIMARY KEY (`order_id`),
 INDEX `order_detail_product_id_fk_idx` (`product_id` ASC) VISIBLE,
 CONSTRAINT 'order detail product id fk'
   FOREIGN KEY (`product_id`)
   REFERENCES `OrderSystem`.`product` (`product_id`)
   ON DELETE NO ACTION
   ON UPDATE NO ACTION.
 CONSTRAINT `order_detail_order_id_fk`
   FOREIGN KEY ('order_id')
   REFERENCES `OrderSystem`.`order` (`order_id`)
   ON DELETE NO ACTION
   ON UPDATE NO ACTION)
ENGINE = InnoDB;
SET SQL_MODE=@OLD_SQL_MODE;
SET FOREIGN_KEY_CHECKS=@OLD_FOREIGN_KEY_CHECKS;
```

SET UNIQUE_CHECKS=@OLD_UNIQUE_CHECKS;





Edit Table...

✓ Mandatory

Edit Table...

✓ Mandatory

Referencing Table		Cardinality	Referenced Table	
order		One-to-One (1:1)	user	
Foreign Key: order_user_id	_fk	One-to-Many (1:n)		
user_id: INT		<u> </u>	user_id: INT (PK)	
		Invert Relationship		
✓ Mandatory	Edit Table	☐ Identifying Relationship	✓ Mandatory	Edit Table