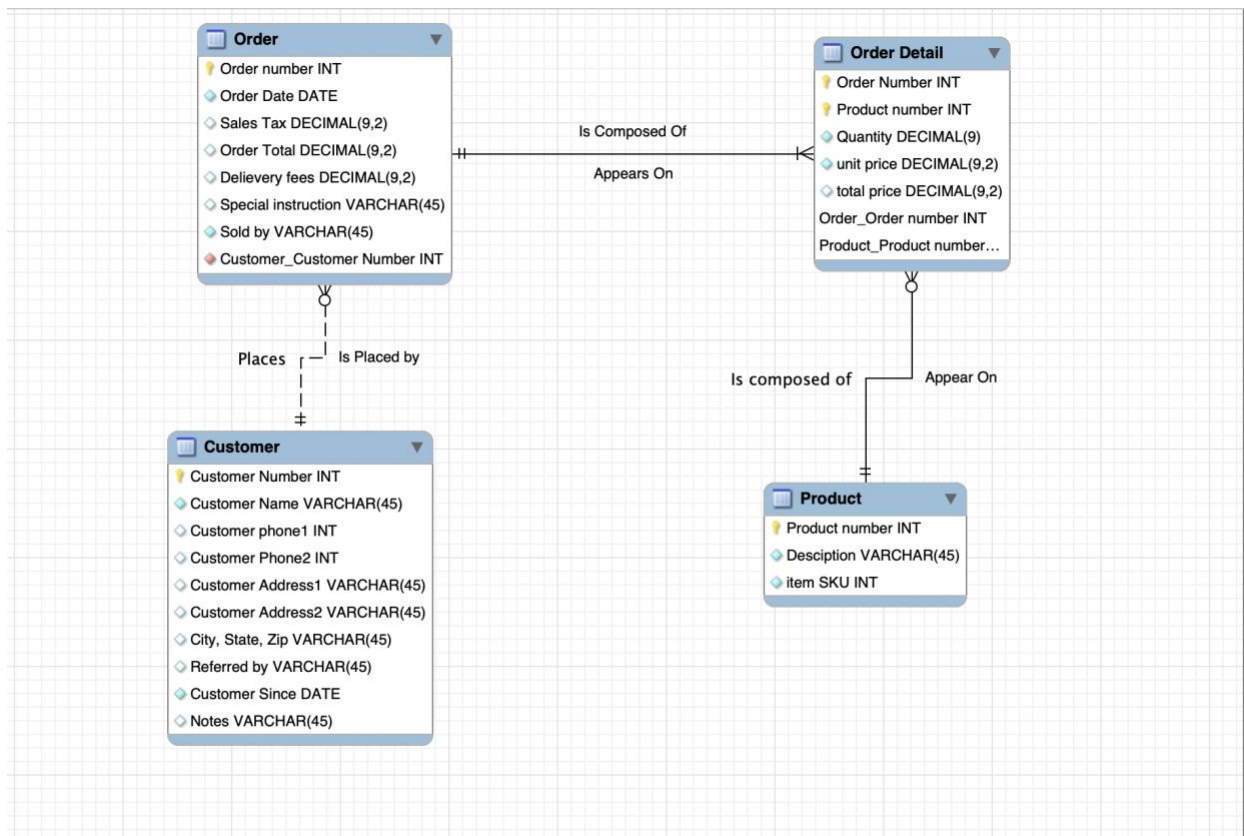Section1:

Section2:
-- MySQL Script generated by MySQL Workbench
-- Sat Feb 13 16:21:29 2021
-- Model: New Model   Version: 1.0
-- 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_DA
TE,ERROR_FOR_DIVISION_BY_ZERO,NO_ENGINE_SUBSTITUTION';


-- -----------------------------------------------------
-- Schema mydb
-- -----------------------------------------------------

-- -----------------------------------------------------
-- Schema mydb
-- -----------------------------------------------------
CREATE SCHEMA IF NOT EXISTS `mydb` DEFAULT CHARACTER SET utf8 ;
USE `mydb` ;
```

```sql
-- -----------------------------------------------------
-- Table `mydb`.`Customer`
-- -----------------------------------------------------
DROP TABLE IF EXISTS `mydb`.`Customer` ;

CREATE TABLE IF NOT EXISTS `mydb`.`Customer` (
  `Customer Number` INT NOT NULL,
  `Customer Name` VARCHAR(45) NOT NULL,
  `Customer phone1` INT NULL,
  `Customer Phone2` INT NULL,
  `Customer Address1` VARCHAR(45) NULL,
  `Customer Address2` VARCHAR(45) NULL,
  `City, State, Zip` VARCHAR(45) NULL,
  `Referred by` VARCHAR(45) NULL,
  `Customer Since` DATE NOT NULL,
  `Notes` VARCHAR(45) NULL,
  PRIMARY KEY (`Customer Number`))
ENGINE = InnoDB;


-- -----------------------------------------------------
-- Table `mydb`.`Order`
-- -----------------------------------------------------
DROP TABLE IF EXISTS `mydb`.`Order` ;

CREATE TABLE IF NOT EXISTS `mydb`.`Order` (
  `Order number` INT NOT NULL AUTO_INCREMENT,
  `Order Date` DATE NOT NULL,
  `Sales Tax` DECIMAL(9,2) NULL,
  `Order Total` DECIMAL(9,2) NULL,
  `Delievery fees` DECIMAL(9,2) NULL,
  `Special instruction` VARCHAR(45) NULL,
  `Sold by` VARCHAR(45) NOT NULL,
  `Customer_Customer Number` INT NOT NULL,
  PRIMARY KEY (`Order number`),
  INDEX `fk_Order_Customer1_idx` (`Customer_Customer Number` ASC) VISIBLE,
  CONSTRAINT `fk_Order_Customer1`
    FOREIGN KEY (`Customer_Customer Number`)
    REFERENCES `mydb`.`Customer` (`Customer Number`)
    ON DELETE NO ACTION
    ON UPDATE NO ACTION)
ENGINE = InnoDB;
```

```sql
-- -----------------------------------------------------
-- Table `mydb`.`Product`
-- -----------------------------------------------------
DROP TABLE IF EXISTS `mydb`.`Product` ;

CREATE TABLE IF NOT EXISTS `mydb`.`Product` (
  `Product number` INT NOT NULL,
  `Desciption` VARCHAR(45) NOT NULL,
  `item SKU` INT NOT NULL,
  PRIMARY KEY (`Product number`))
ENGINE = InnoDB;



-- -----------------------------------------------------
-- Table `mydb`.`Order Detail`
-- -----------------------------------------------------
DROP TABLE IF EXISTS `mydb`.`Order Detail` ;

CREATE TABLE IF NOT EXISTS `mydb`.`Order Detail` (
  `Order Number` INT NOT NULL,
  `Product number` INT NOT NULL,
  `Quantity` DECIMAL(9) NOT NULL,
  `unit price` DECIMAL(9,2) NOT NULL,
  `total price` DECIMAL(9,2) NULL,
  `Order_Order number` INT NOT NULL,
  `Product_Product number` INT NOT NULL,
  PRIMARY KEY (`Order Number`, `Product number`, `Order_Order number`, `Product_Product number`),
  INDEX `fk_Order Detail_Order_idx` (`Order_Order number` ASC) VISIBLE,
  INDEX `fk_Order Detail_Product1_idx` (`Product_Product number` ASC) VISIBLE,
  CONSTRAINT `fk_Order Detail_Order`
    FOREIGN KEY (`Order_Order number`)
    REFERENCES `mydb`.`Order` (`Order number`)
    ON DELETE NO ACTION
    ON UPDATE NO ACTION,
  CONSTRAINT `fk_Order Detail_Product1`
    FOREIGN KEY (`Product_Product number`)
    REFERENCES `mydb`.`Product` (`Product number`)
    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;
```

Section3:

Order number and Product number in Order Detail are dependent keys that related to Order and Product. Because the Order Detail is the association entity between Product and Order.

The customer Number is the surrogate key, because it is easier to identify different customers than using other candidate composite key. And it can be a foreign key in Order table.