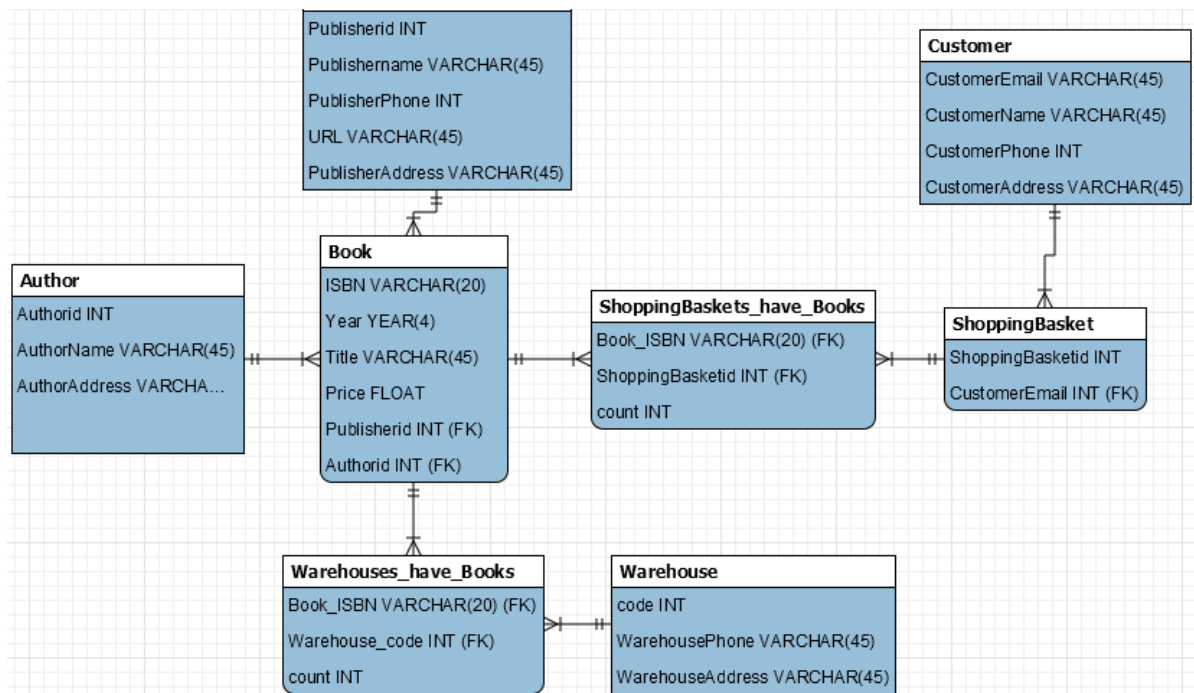


1)



1.

DDL script as sql script in a flat file
USE `BookShop` ;

-- Table `BookShop`.`Publisher`

```

CREATE TABLE IF NOT EXISTS `BookShop`.`Publisher` (
  `Publisherid` INT NOT NULL,
  `Publishername` VARCHAR(45) NOT NULL,
  `PublisherPhone` INT NULL,
  `URL` VARCHAR(45) NULL,
  `PublisherAddress` VARCHAR(45) NULL,
  PRIMARY KEY (`Publisherid`))
ENGINE = InnoDB;
  
```

-- Table `BookShop`.`Author`

```

CREATE TABLE IF NOT EXISTS `BookShop`.`Author` (
  `Authorid` INT NOT NULL,
  `AuthorName` VARCHAR(45) NOT NULL,
  `AuthorAddress` VARCHAR(45) NULL,
  PRIMARY KEY (`Authorid`))
ENGINE = InnoDB;
  
```

-- Table `BookShop`.`Book`

```

CREATE TABLE IF NOT EXISTS `BookShop`.`Book` (
  `ISBN` VARCHAR(20) NOT NULL,
  
```

```

`Year` YEAR(4) NULL,
`Title` VARCHAR(45) NOT NULL,
`Price` FLOAT NULL,
`Publisherid` INT NOT NULL,
`Authorid` INT NOT NULL,
PRIMARY KEY (`ISBN`, `Publisherid`, `Authorid`),
INDEX `fk_Book_Publisher_idx` (`Publisherid` ASC),
INDEX `fk_Book_Author1_idx` (`Authorid` ASC),
CONSTRAINT `fk_Book_Publisher`
FOREIGN KEY (`Publisherid`)
REFERENCES `BookShop`.`Publisher` (`Publisherid`)
ON DELETE NO ACTION
ON UPDATE NO ACTION,
CONSTRAINT `fk_Book_Author1`
FOREIGN KEY (`Authorid`)
REFERENCES `BookShop`.`Author` (`Authorid`)
ON DELETE NO ACTION
ON UPDATE NO ACTION)
ENGINE = InnoDB;

```

```

-----
-- Table `BookShop`.`Warehouse`
-----

```

```

CREATE TABLE IF NOT EXISTS `BookShop`.`Warehouse` (
`code` INT NOT NULL,
`WarehousePhone` VARCHAR(45) NULL,
`WarehouseAddress` VARCHAR(45) NULL,
PRIMARY KEY (`code`))
ENGINE = InnoDB;

```

```

-----
-- Table `BookShop`.`Customer`
-----

```

```

CREATE TABLE IF NOT EXISTS `BookShop`.`Customer` (
`CustomerEmail` VARCHAR(45) NOT NULL,
`CustomerName` VARCHAR(45) NOT NULL,
`CustomerPhone` INT NULL,
`CustomerAddress` VARCHAR(45) NULL,
PRIMARY KEY (`CustomerEmail`))
ENGINE = InnoDB;

```

```

-----
-- Table `BookShop`.`ShoppingBasket`
-----

```

```

CREATE TABLE IF NOT EXISTS `BookShop`.`ShoppingBasket` (
`ShoppingBasketid` INT NOT NULL,
`CustomerEmail` varchar(45) NOT NULL,
PRIMARY KEY (`ShoppingBasketid`, `CustomerEmail`),
INDEX `fk_ShoppingBasket_Customer1_idx` (`CustomerEmail` ASC),
CONSTRAINT `fk_ShoppingBasket_Customer1`
FOREIGN KEY (`CustomerEmail`)
REFERENCES `BookShop`.`Customer` (`CustomerEmail`)

```

```
ON DELETE NO ACTION
ON UPDATE NO ACTION)
ENGINE = InnoDB;
```

```
-- Table `BookShop`.`ShoppingBaskets_have_Books`
```

```
CREATE TABLE IF NOT EXISTS `BookShop`.`ShoppingBaskets_have_Books` (
  `Book_ISBN` VARCHAR(20) NOT NULL,
  `ShoppingBasketid` INT NOT NULL,
  `count` INT NOT NULL,
  PRIMARY KEY (`Book_ISBN`, `ShoppingBasketid`),
  INDEX `fk_Book_has_ShoppingBasket_ShoppingBasket1_idx` (`ShoppingBasketid`
  ASC),
  INDEX `fk_Book_has_ShoppingBasket_Book1_idx` (`Book_ISBN` ASC),
  CONSTRAINT `fk_Book_has_ShoppingBasket_Book1`
  FOREIGN KEY (`Book_ISBN`)
  REFERENCES `BookShop`.`Book` (`ISBN`)
  ON DELETE NO ACTION
  ON UPDATE NO ACTION,
  CONSTRAINT `fk_Book_has_ShoppingBasket_ShoppingBasket1`
  FOREIGN KEY (`ShoppingBasketid`)
  REFERENCES `BookShop`.`ShoppingBasket` (`ShoppingBasketid`)
  ON DELETE NO ACTION
  ON UPDATE NO ACTION)
ENGINE = InnoDB;
```

```
-- Table `BookShop`.`Warehouses_have_Books`
```

```
CREATE TABLE IF NOT EXISTS `BookShop`.`Warehouses_have_Books` (
  `Book_ISBN` VARCHAR(20) NOT NULL,
  `Warehouse_code` INT NOT NULL,
  `count` INT NULL,
  PRIMARY KEY (`Book_ISBN`, `Warehouse_code`),
  INDEX `fk_Book_has_Warehouse_Warehouse1_idx` (`Warehouse_code` ASC),
  INDEX `fk_Book_has_Warehouse_Book1_idx` (`Book_ISBN` ASC),
  CONSTRAINT `fk_Book_has_Warehouse_Book1`
  FOREIGN KEY (`Book_ISBN`)
  REFERENCES `BookShop`.`Book` (`ISBN`)
  ON DELETE NO ACTION
  ON UPDATE NO ACTION,
  CONSTRAINT `fk_Book_has_Warehouse_Warehouse1`
  FOREIGN KEY (`Warehouse_code`)
  REFERENCES `BookShop`.`Warehouse` (`code`)
  ON DELETE NO ACTION
  ON UPDATE NO ACTION)
ENGINE = InnoDB;
```

2.

