Universidad Sergio Arboleda
Escuela de Ciencias Exactas e Ingeniería
Big Data
Parcial 1
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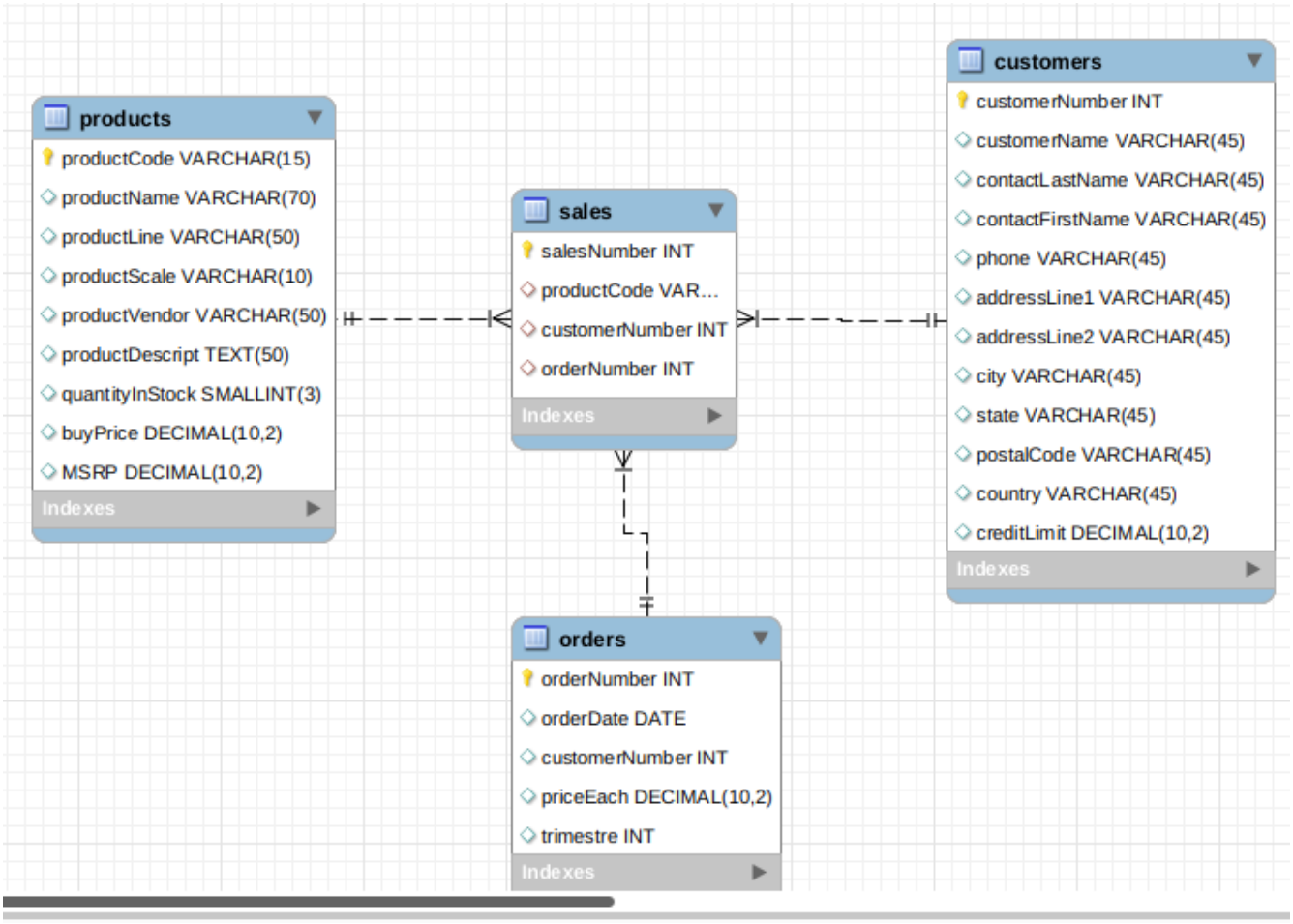
Parte 2.
a. SQL script del modelo dimensional en estrella de la base de datos.




```
-- MySQL Script generated by MySQL Workbench
-- mar 13 sep 2022 11:34:22
-- 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_Z
ERO_DATE,ERROR_FOR_DIVISION_BY_ZERO,NO_ENGINE_SUBSTITUTION';
```

```
-- -----------------------------------------------------
-- Schema mydb
-- -----------------------------------------------------

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

-- -----------------------------------------------------
-- Table `mydb`.`products`
-- -----------------------------------------------------
CREATE TABLE IF NOT EXISTS `mydb`.`products` (
  `productCode` VARCHAR(15) NOT NULL,
  `productName` VARCHAR(70) NULL,
  `productLine` VARCHAR(50) NULL,
  `productScale` VARCHAR(10) NULL,
  `productVendor` VARCHAR(50) NULL,
  `productDescript` TEXT(50) NULL,
  `quantityInStock` SMALLINT(3) NULL,
  `buyPrice` DECIMAL(10,2) NULL,
  `MSRP` DECIMAL(10,2) NULL,
  PRIMARY KEY (`productCode`))
ENGINE = InnoDB;


-- -----------------------------------------------------
-- Table `mydb`.`customers`
-- -----------------------------------------------------
CREATE TABLE IF NOT EXISTS `mydb`.`customers` (
  `customerNumber` INT NOT NULL,
  `customerName` VARCHAR(45) NULL,
  `contactLastName` VARCHAR(45) NULL,
  `contactFirstName` VARCHAR(45) NULL,
  `phone` VARCHAR(45) NULL,
  `addressLine1` VARCHAR(45) NULL,
  `addressLine2` VARCHAR(45) NULL,
  `city` VARCHAR(45) NULL,
  `state` VARCHAR(45) NULL,
  `postalCode` VARCHAR(45) NULL,
  `country` VARCHAR(45) NULL,
  `creditLimit` DECIMAL(10,2) NULL,
  PRIMARY KEY (`customerNumber`))
ENGINE = InnoDB;


-- -----------------------------------------------------
-- Table `mydb`.`orders`
```

```
-- -----------------------------------------------------
CREATE TABLE IF NOT EXISTS `mydb`.`orders` (
  `orderNumber` INT NOT NULL,
  `orderDate` DATE NULL,
  `requiredDate` DATE NULL,
  `shippedDate` DATE NULL,
  `status` VARCHAR(45) NULL,
  `comments` TEXT(50) NULL,
  `customerNumber` INT NULL,
  PRIMARY KEY (`orderNumber`))
ENGINE = InnoDB;


-- -----------------------------------------------------
-- Table `mydb`.`sales`
-- -----------------------------------------------------
CREATE TABLE IF NOT EXISTS `mydb`.`sales` (
  `salesNumber` INT NOT NULL,
  `productCode` INT NULL,
  `customerNumber` INT NULL,
  `orderNumber` INT NULL,
  PRIMARY KEY (`salesNumber`),
  INDEX `productCode_idx` (`productCode` ASC) VISIBLE,
  INDEX `customerNumber_idx` (`customerNumber` ASC) VISIBLE,
  INDEX `orderNumber_idx` (`orderNumber` ASC) VISIBLE,
  CONSTRAINT `productCode`
    FOREIGN KEY (`productCode`)
    REFERENCES `mydb`.`products` (`productCode`)
    ON DELETE NO ACTION
    ON UPDATE NO ACTION,
  CONSTRAINT `customerNumber`
    FOREIGN KEY (`customerNumber`)
    REFERENCES `mydb`.`customers` (`customerNumber`)
    ON DELETE NO ACTION
    ON UPDATE NO ACTION,
  CONSTRAINT `orderNumber`
    FOREIGN KEY (`orderNumber`)
    REFERENCES `mydb`.`orders` (`orderNumber`)
    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;
```

c. Ingresar datos en las tablas

Tabla Products :

INSERT INTO mydb.products (productCode, productName, productLine, productScale, productVendor,
productDescript, quantityInStock, buyPrice, MSRP)
SELECT productCode, productName, productLine, productScale, productVendor,
productDescription, quantityInStock, buyPrice, MSRP FROM classicmodels.products;

Tabla orders:

INSERT INTO mydb.orders(orderNumber, orderDate, requiredDate, shippedDate, status, comments, customerNumber)
SELECT orderNumber, orderDate, requiredDate, shippedDate, status, comments, customerNumber FROM classicmodels.orders;

Tabla customers:
INSERT INTO mydb.customers (customerNumber, customerName, contactLastName, contactFirstName,
phone, addressLine1, addressLine2, city, state, postalCode, country, creditLimit)
SELECT customerNumber, customerName, contactLastName, contactFirstName,
phone, addressLine1, addressLine2, city, state, postalCode, country, creditLimit FROM classicmodels.customers;

```
2 •  SELECT month(orders.orderDate) as mes,
3    SUM(orderdetails.quantityOrdered) as suma, (CASE
4    WHEN extract(month FROM orderDate) BETWEEN 1 AND 3 THEN 1
5    WHEN extract(month FROM orderDate) BETWEEN 4 AND 6 THEN 2
6    WHEN extract(month FROM orderDate) BETWEEN 7 AND 9 THEN 3
7    WHEN extract(month FROM orderDate) BETWEEN 10 AND 12 THEN 4
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

#	mes	suma	trimestre
1	5	34398216	2