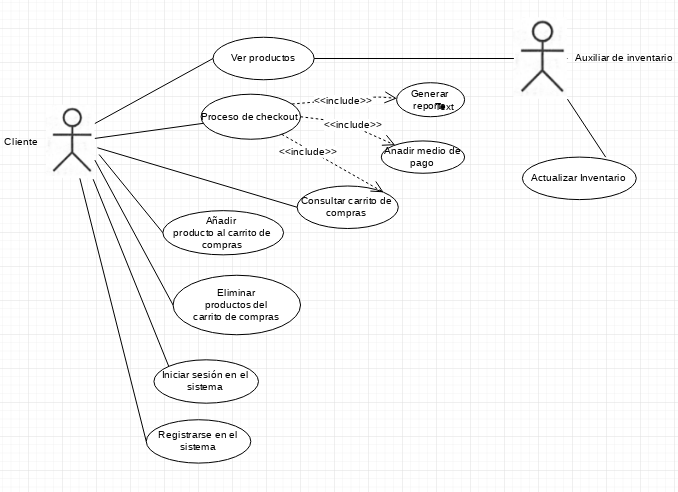
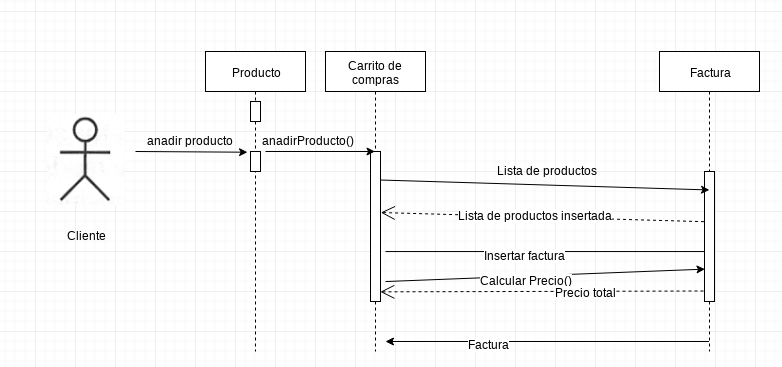
**Fase de diseño de un supermercado**

**Nizar Sanchez-(2018-6482)**

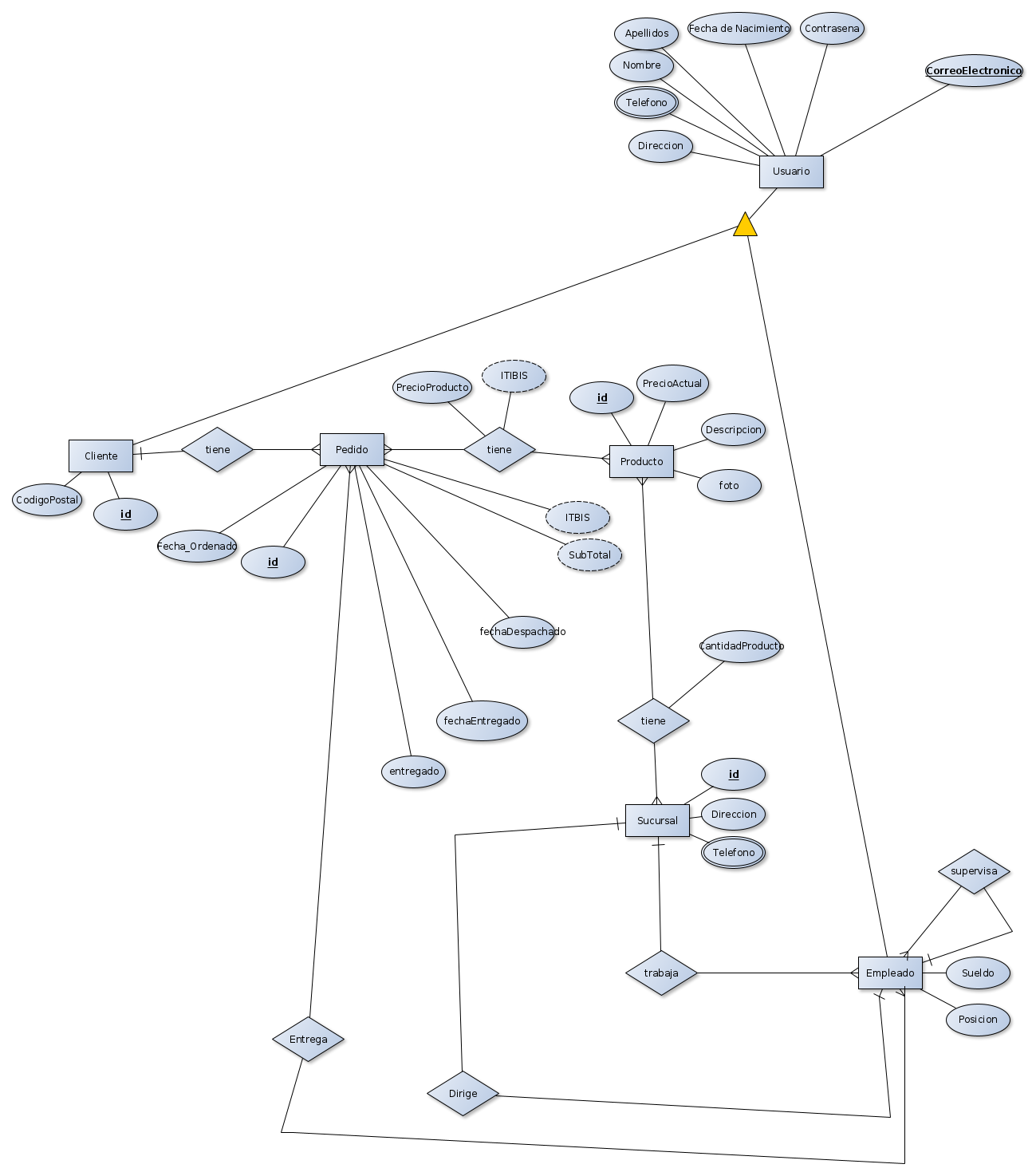
**Diagrama de caso de uso**

****

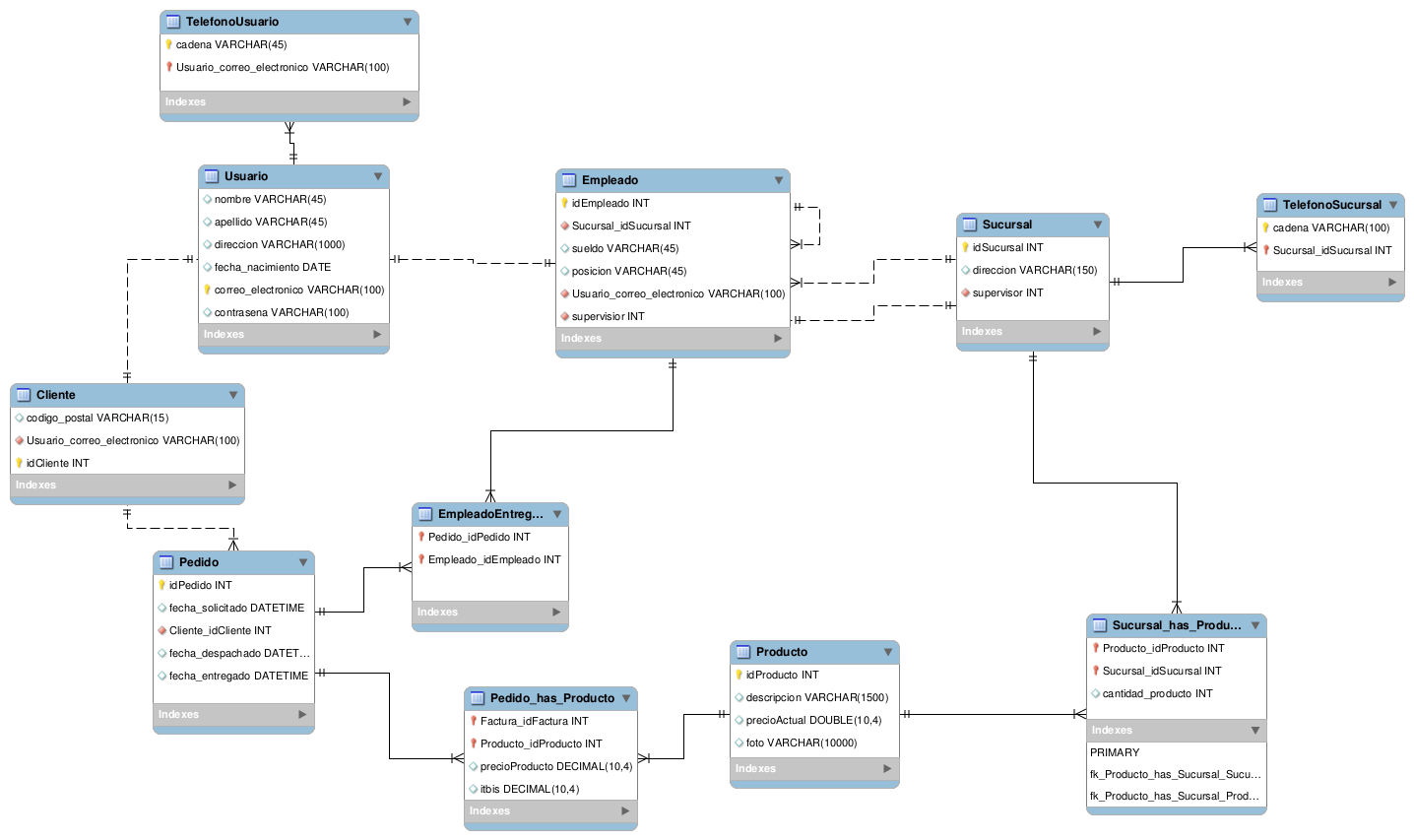
**Diagrama de secuencia:**

****

**Modelo E/R**

****

**Modelo Relacional**

****

**Modelo Fisico**

**-- MySQL Script generated by MySQL Workbench**

**-- Mon 25 Nov 2019 10:38:47 AM AST**

**-- 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='TRADITIONAL,ALLOW\_INVALID\_DATES';**

**-- -----------------------------------------------------**

**-- Schema mydb**

**-- -----------------------------------------------------**

**-- -----------------------------------------------------**

**-- Schema mydb**

**-- -----------------------------------------------------**

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

**USE `mydb` ;**

**-- -----------------------------------------------------**

**-- Table `mydb`.`table1`**

**-- -----------------------------------------------------**

**CREATE TABLE IF NOT EXISTS `mydb`.`table1` (**

**)**

**ENGINE = InnoDB;**

**-- -----------------------------------------------------**

**-- Table `mydb`.`Usuario`**

**-- -----------------------------------------------------**

**CREATE TABLE IF NOT EXISTS `mydb`.`Usuario` (**

**`nombre` VARCHAR(45) NULL,**

**`apellido` VARCHAR(45) NULL,**

**`direccion` VARCHAR(1000) NULL,**

**`fecha\_nacimiento` DATE NULL,**

**`correo\_electronico` VARCHAR(100) NOT NULL,**

**`contrasena` VARCHAR(100) NULL,**

**PRIMARY KEY (`correo\_electronico`))**

**ENGINE = InnoDB;**

**-- -----------------------------------------------------**

**-- Table `mydb`.`TelefonoUsuario`**

**-- -----------------------------------------------------**

**CREATE TABLE IF NOT EXISTS `mydb`.`TelefonoUsuario` (**

**`cadena` VARCHAR(45) NOT NULL,**

**`Usuario\_correo\_electronico` VARCHAR(100) NOT NULL,**

**PRIMARY KEY (`cadena`, `Usuario\_correo\_electronico`),**

**INDEX `fk\_TelefonoUsuario\_Usuario1\_idx` (`Usuario\_correo\_electronico` ASC),**

**CONSTRAINT `fk\_TelefonoUsuario\_Usuario1`**

**FOREIGN KEY (`Usuario\_correo\_electronico`)**

**REFERENCES `mydb`.`Usuario` (`correo\_electronico`)**

**ON DELETE NO ACTION**

**ON UPDATE NO ACTION)**

**ENGINE = InnoDB;**

**-- -----------------------------------------------------**

**-- Table `mydb`.`Cliente`**

**-- -----------------------------------------------------**

**CREATE TABLE IF NOT EXISTS `mydb`.`Cliente` (**

**`codigo\_postal` VARCHAR(15) NULL,**

**`Usuario\_correo\_electronico` VARCHAR(100) NOT NULL,**

**`idCliente` INT NOT NULL,**

**INDEX `fk\_Cliente\_Usuario1\_idx` (`Usuario\_correo\_electronico` ASC),**

**PRIMARY KEY (`idCliente`),**

**CONSTRAINT `fk\_Cliente\_Usuario1`**

**FOREIGN KEY (`Usuario\_correo\_electronico`)**

**REFERENCES `mydb`.`Usuario` (`correo\_electronico`)**

**ON DELETE NO ACTION**

**ON UPDATE NO ACTION)**

**ENGINE = InnoDB;**

**-- -----------------------------------------------------**

**-- Table `mydb`.`Producto`**

**-- -----------------------------------------------------**

**CREATE TABLE IF NOT EXISTS `mydb`.`Producto` (**

**`idProducto` INT NOT NULL AUTO\_INCREMENT,**

**`descripcion` VARCHAR(1500) NULL,**

**`precioActual` DOUBLE(10,4) NULL,**

**`foto` VARCHAR(10000) NULL,**

**PRIMARY KEY (`idProducto`))**

**ENGINE = InnoDB;**

**-- -----------------------------------------------------**

**-- Table `mydb`.`Pedido`**

**-- -----------------------------------------------------**

**CREATE TABLE IF NOT EXISTS `mydb`.`Pedido` (**

**`idPedido` INT NOT NULL AUTO\_INCREMENT,**

**`fecha\_solicitado` DATETIME NULL,**

**`Cliente\_idCliente` INT NOT NULL,**

**`fecha\_despachado` DATETIME NULL,**

**`fecha\_entregado` DATETIME NULL,**

**PRIMARY KEY (`idPedido`),**

**INDEX `fk\_Pedido\_Cliente1\_idx` (`Cliente\_idCliente` ASC),**

**CONSTRAINT `fk\_Pedido\_Cliente1`**

**FOREIGN KEY (`Cliente\_idCliente`)**

**REFERENCES `mydb`.`Cliente` (`idCliente`)**

**ON DELETE NO ACTION**

**ON UPDATE NO ACTION)**

**ENGINE = InnoDB;**

**-- -----------------------------------------------------**

**-- Table `mydb`.`Pedido\_has\_Producto`**

**-- -----------------------------------------------------**

**CREATE TABLE IF NOT EXISTS `mydb`.`Pedido\_has\_Producto` (**

**`Factura\_idFactura` INT NOT NULL,**

**`Producto\_idProducto` INT NOT NULL,**

**`precioProducto` DECIMAL(10,4) NULL,**

**`itbis` DECIMAL(10,4) NULL,**

**PRIMARY KEY (`Factura\_idFactura`, `Producto\_idProducto`),**

**INDEX `fk\_Factura\_has\_Producto\_Producto1\_idx` (`Producto\_idProducto` ASC),**

**INDEX `fk\_Factura\_has\_Producto\_Factura1\_idx` (`Factura\_idFactura` ASC),**

**CONSTRAINT `fk\_Factura\_has\_Producto\_Factura1`**

**FOREIGN KEY (`Factura\_idFactura`)**

**REFERENCES `mydb`.`Pedido` (`idPedido`)**

**ON DELETE NO ACTION**

**ON UPDATE NO ACTION,**

**CONSTRAINT `fk\_Factura\_has\_Producto\_Producto1`**

**FOREIGN KEY (`Producto\_idProducto`)**

**REFERENCES `mydb`.`Producto` (`idProducto`)**

**ON DELETE NO ACTION**

**ON UPDATE NO ACTION)**

**ENGINE = InnoDB;**

**-- -----------------------------------------------------**

**-- Table `mydb`.`Empleado`**

**-- -----------------------------------------------------**

**CREATE TABLE IF NOT EXISTS `mydb`.`Empleado` (**

**`idEmpleado` INT NOT NULL AUTO\_INCREMENT,**

**`Sucursal\_idSucursal` INT NOT NULL,**

**`sueldo` VARCHAR(45) NULL,**

**`posicion` VARCHAR(45) NULL,**

**`Usuario\_correo\_electronico` VARCHAR(100) NOT NULL,**

**`supervisior` INT NOT NULL,**

**PRIMARY KEY (`idEmpleado`),**

**INDEX `fk\_Empleado\_Sucursal1\_idx` (`Sucursal\_idSucursal` ASC),**

**INDEX `fk\_Empleado\_Usuario1\_idx` (`Usuario\_correo\_electronico` ASC),**

**INDEX `fk\_Empleado\_Empleado1\_idx` (`supervisior` ASC),**

**CONSTRAINT `fk\_Empleado\_Sucursal1`**

**FOREIGN KEY (`Sucursal\_idSucursal`)**

**REFERENCES `mydb`.`Sucursal` (`idSucursal`)**

**ON DELETE NO ACTION**

**ON UPDATE NO ACTION,**

**CONSTRAINT `fk\_Empleado\_Usuario1`**

**FOREIGN KEY (`Usuario\_correo\_electronico`)**

**REFERENCES `mydb`.`Usuario` (`correo\_electronico`)**

**ON DELETE NO ACTION**

**ON UPDATE NO ACTION,**

**CONSTRAINT `fk\_Empleado\_Empleado1`**

**FOREIGN KEY (`supervisior`)**

**REFERENCES `mydb`.`Empleado` (`idEmpleado`)**

**ON DELETE NO ACTION**

**ON UPDATE NO ACTION)**

**ENGINE = InnoDB;**

**-- -----------------------------------------------------**

**-- Table `mydb`.`Sucursal`**

**-- -----------------------------------------------------**

**CREATE TABLE IF NOT EXISTS `mydb`.`Sucursal` (**

**`idSucursal` INT NOT NULL AUTO\_INCREMENT,**

**`direccion` VARCHAR(150) NULL,**

**`supervisor` INT NOT NULL,**

**PRIMARY KEY (`idSucursal`),**

**INDEX `fk\_Sucursal\_Empleado1\_idx` (`supervisor` ASC),**

**CONSTRAINT `fk\_Sucursal\_Empleado1`**

**FOREIGN KEY (`supervisor`)**

**REFERENCES `mydb`.`Empleado` (`idEmpleado`)**

**ON DELETE NO ACTION**

**ON UPDATE NO ACTION)**

**ENGINE = InnoDB;**

**-- -----------------------------------------------------**

**-- Table `mydb`.`Sucursal\_has\_Producto`**

**-- -----------------------------------------------------**

**CREATE TABLE IF NOT EXISTS `mydb`.`Sucursal\_has\_Producto` (**

**`Producto\_idProducto` INT NOT NULL,**

**`Sucursal\_idSucursal` INT NOT NULL,**

**`cantidad\_producto` INT NULL,**

**PRIMARY KEY (`Producto\_idProducto`, `Sucursal\_idSucursal`),**

**INDEX `fk\_Producto\_has\_Sucursal\_Sucursal1\_idx` (`Sucursal\_idSucursal` ASC),**

**INDEX `fk\_Producto\_has\_Sucursal\_Producto1\_idx` (`Producto\_idProducto` ASC),**

**CONSTRAINT `fk\_Producto\_has\_Sucursal\_Producto1`**

**FOREIGN KEY (`Producto\_idProducto`)**

**REFERENCES `mydb`.`Producto` (`idProducto`)**

**ON DELETE NO ACTION**

**ON UPDATE NO ACTION,**

**CONSTRAINT `fk\_Producto\_has\_Sucursal\_Sucursal1`**

**FOREIGN KEY (`Sucursal\_idSucursal`)**

**REFERENCES `mydb`.`Sucursal` (`idSucursal`)**

**ON DELETE NO ACTION**

**ON UPDATE NO ACTION)**

**ENGINE = InnoDB;**

**-- -----------------------------------------------------**

**-- Table `mydb`.`EmpleadoEntregaPedido`**

**-- -----------------------------------------------------**

**CREATE TABLE IF NOT EXISTS `mydb`.`EmpleadoEntregaPedido` (**

**`Pedido\_idPedido` INT NOT NULL,**

**`Empleado\_idEmpleado` INT NOT NULL,**

**PRIMARY KEY (`Pedido\_idPedido`, `Empleado\_idEmpleado`),**

**INDEX `fk\_Pedido\_has\_Empleado\_Empleado1\_idx` (`Empleado\_idEmpleado` ASC),**

**INDEX `fk\_Pedido\_has\_Empleado\_Pedido1\_idx` (`Pedido\_idPedido` ASC),**

**CONSTRAINT `fk\_Pedido\_has\_Empleado\_Pedido1`**

**FOREIGN KEY (`Pedido\_idPedido`)**

**REFERENCES `mydb`.`Pedido` (`idPedido`)**

**ON DELETE NO ACTION**

**ON UPDATE NO ACTION,**

**CONSTRAINT `fk\_Pedido\_has\_Empleado\_Empleado1`**

**FOREIGN KEY (`Empleado\_idEmpleado`)**

**REFERENCES `mydb`.`Empleado` (`idEmpleado`)**

**ON DELETE NO ACTION**

**ON UPDATE NO ACTION)**

**ENGINE = InnoDB;**

**-- -----------------------------------------------------**

**-- Table `mydb`.`TelefonoSucursal`**

**-- -----------------------------------------------------**

**CREATE TABLE IF NOT EXISTS `mydb`.`TelefonoSucursal` (**

**`cadena` VARCHAR(100) NOT NULL COMMENT 'k',**

**`Sucursal\_idSucursal` INT NOT NULL,**

**PRIMARY KEY (`cadena`, `Sucursal\_idSucursal`),**

**INDEX `fk\_TelefonoSucursal\_Sucursal1\_idx` (`Sucursal\_idSucursal` ASC),**

**CONSTRAINT `fk\_TelefonoSucursal\_Sucursal1`**

**FOREIGN KEY (`Sucursal\_idSucursal`)**

**REFERENCES `mydb`.`Sucursal` (`idSucursal`)**

**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**](mailto:UNIQUE_CHECKS%3D@OLD_UNIQUE_CHECKS)**;**

**Diccionario de datos:**



. DISEÑO DE SALIDA DEL SISTEMA, ENTRADA DE DATOS E INTERFACES DEL USUARIO(MENÚ Y LOGIN)

