CSCI 3287 Extra Credit

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Entity Relationship Diagram



Physical Data Model (SQL create statements)

-- MySQL Script generated by MySQL Workbench

-- Thu 13 Dec 2018 11:16:17 PM MST

-- 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

-- -----------------------------------------------------

DROP SCHEMA IF EXISTS `mydb` ;

-- -----------------------------------------------------

-- Schema mydb

-- -----------------------------------------------------

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

USE `mydb` ;

-- -----------------------------------------------------

-- Table `mydb`.`Employee`

-- -----------------------------------------------------

DROP TABLE IF EXISTS `mydb`.`Employee` ;

CREATE TABLE IF NOT EXISTS `mydb`.`Employee` (

`\_AutoID` INT NOT NULL AUTO\_INCREMENT,

`Name` VARCHAR(50) NOT NULL,

`Address` VARCHAR(50) NOT NULL,

`SkillLevel` VARCHAR(45) NOT NULL,

`TypeWork` VARCHAR(45) NULL,

`Remark` TEXT NULL,

`salaries\_\_AutoID` INT NOT NULL,

PRIMARY KEY (`\_AutoID`, `salaries\_\_AutoID`))

ENGINE = InnoDB;

-- -----------------------------------------------------

-- Table `mydb`.`SetTime`

-- -----------------------------------------------------

DROP TABLE IF EXISTS `mydb`.`SetTime` ;

CREATE TABLE IF NOT EXISTS `mydb`.`SetTime` (

`\_AutoID` INT NOT NULL AUTO\_INCREMENT,

`salariesID` INT NOT NULL,

`EmployeeID` INT NOT NULL,

`HourSalary` DECIMAL(18,2) NULL,

`NowDate` DATE NOT NULL,

`StartDate` DATETIME NOT NULL,

`EndDate` DATETIME NOT NULL,

`overtime` DECIMAL(18,2) NULL,

`OvertimeHours` DECIMAL(18,2) NULL,

`AllHours` DECIMAL(18,2) NULL,

`theDaySalary` DECIMAL(18,2) NOT NULL,

`Employee\_\_AutoID` INT NOT NULL,

`Employee\_salaries\_\_AutoID` INT NOT NULL,

PRIMARY KEY (`\_AutoID`),

UNIQUE INDEX `salariesID\_UNIQUE` (`salariesID` ASC),

UNIQUE INDEX `EmployeeID\_UNIQUE` (`EmployeeID` ASC),

INDEX `fk\_SetTime\_Employee1\_idx` (`Employee\_\_AutoID` ASC, `Employee\_salaries\_\_AutoID` ASC),

CONSTRAINT `fk\_SetTime\_Employee1`

FOREIGN KEY (`Employee\_\_AutoID` , `Employee\_salaries\_\_AutoID`)

REFERENCES `mydb`.`Employee` (`\_AutoID` , `salaries\_\_AutoID`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

-- -----------------------------------------------------

-- Table `mydb`.`Salaries`

-- -----------------------------------------------------

DROP TABLE IF EXISTS `mydb`.`Salaries` ;

CREATE TABLE IF NOT EXISTS `mydb`.`Salaries` (

`\_AutoID` INT NOT NULL AUTO\_INCREMENT,

`EmployeeID` INT NOT NULL,

`SalaryType` VARCHAR(50) NOT NULL,

`FixedSalary` DECIMAL(18,2) NULL,

`Days` INT NULL,

`HourlyPay` VARCHAR(45) NULL,

`SetTime\_\_AutoID` INT NOT NULL,

`Employee\_\_AutoID` INT NOT NULL,

`Employee\_salaries\_\_AutoID` INT NOT NULL,

PRIMARY KEY (`\_AutoID`),

UNIQUE INDEX `EmployeeID\_UNIQUE` (`EmployeeID` ASC),

INDEX `fk\_salaries\_SetTime1\_idx` (`SetTime\_\_AutoID` ASC),

INDEX `fk\_salaries\_Employee1\_idx` (`Employee\_\_AutoID` ASC, `Employee\_salaries\_\_AutoID` ASC),

CONSTRAINT `fk\_salaries\_SetTime1`

FOREIGN KEY (`SetTime\_\_AutoID`)

REFERENCES `mydb`.`SetTime` (`\_AutoID`)

ON DELETE NO ACTION

ON UPDATE NO ACTION,

CONSTRAINT `fk\_salaries\_Employee1`

FOREIGN KEY (`Employee\_\_AutoID` , `Employee\_salaries\_\_AutoID`)

REFERENCES `mydb`.`Employee` (`\_AutoID` , `salaries\_\_AutoID`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

-- -----------------------------------------------------

-- Table `mydb`.`Supplier`

-- -----------------------------------------------------

DROP TABLE IF EXISTS `mydb`.`Supplier` ;

CREATE TABLE IF NOT EXISTS `mydb`.`Supplier` (

`\_AutoID` INT NOT NULL AUTO\_INCREMENT,

`category` VARCHAR(45) NOT NULL,

`name` VARCHAR(100) NOT NULL,

`address1` VARCHAR(100) NULL,

`address2` VARCHAR(100) NULL,

`CityStateZip` VARCHAR(100) NOT NULL,

`Phone` VARCHAR(45) NULL,

`Contact` VARCHAR(45) NULL,

`ContactPhone` VARCHAR(45) NULL,

`ShippingAndBillingTrems` VARCHAR(45) NULL,

`notes` TEXT NULL,

PRIMARY KEY (`\_AutoID`))

ENGINE = InnoDB;

-- -----------------------------------------------------

-- Table `mydb`.`Order`

-- -----------------------------------------------------

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

CREATE TABLE IF NOT EXISTS `mydb`.`Order` (

`\_AutoID` INT NOT NULL AUTO\_INCREMENT,

`OrderDate` DATE NULL,

`SupplierID` INT NOT NULL,

`Material` VARCHAR(45) NOT NULL,

`MaterialType` VARCHAR(45) NOT NULL,

`MaterialCount` DECIMAL(18,2) NOT NULL,

`price` DECIMAL(18,2) NOT NULL,

`Specifications` VARCHAR(45) NULL,

`tax` DECIMAL(18,2) NULL,

`Freight` DECIMAL(18,2) NOT NULL,

`AllPrice` DECIMAL(18,2) NOT NULL,

`Supplier\_\_AutoID` INT NOT NULL,

`Employee\_\_AutoID` INT NOT NULL,

`Employee\_salaries\_\_AutoID` INT NOT NULL,

PRIMARY KEY (`\_AutoID`),

UNIQUE INDEX `SupplierID\_UNIQUE` (`SupplierID` ASC),

INDEX `fk\_Order\_Supplier1\_idx` (`Supplier\_\_AutoID` ASC),

INDEX `fk\_Order\_Employee1\_idx` (`Employee\_\_AutoID` ASC, `Employee\_salaries\_\_AutoID` ASC),

CONSTRAINT `fk\_Order\_Supplier1`

FOREIGN KEY (`Supplier\_\_AutoID`)

REFERENCES `mydb`.`Supplier` (`\_AutoID`)

ON DELETE NO ACTION

ON UPDATE NO ACTION,

CONSTRAINT `fk\_Order\_Employee1`

FOREIGN KEY (`Employee\_\_AutoID` , `Employee\_salaries\_\_AutoID`)

REFERENCES `mydb`.`Employee` (`\_AutoID` , `salaries\_\_AutoID`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

-- -----------------------------------------------------

-- Table `mydb`.`EquipmentInventory`

-- -----------------------------------------------------

DROP TABLE IF EXISTS `mydb`.`EquipmentInventory` ;

CREATE TABLE IF NOT EXISTS `mydb`.`EquipmentInventory` (

`\_AutoID` INT NOT NULL AUTO\_INCREMENT,

`SupplierID` INT NOT NULL,

`PurchasePrice` DECIMAL(18,2) NULL,

`Buyyear` INT NULL,

`DepreciationAmount` DECIMAL(18,2) NULL,

`MaterialName` NVARCHAR(50) NOT NULL,

`BuyNum` INT NULL,

`UseType` VARCHAR(45) NULL,

`Remarks` TEXT NULL,

`Order\_\_AutoID` INT NOT NULL,

PRIMARY KEY (`\_AutoID`),

UNIQUE INDEX `SupplierID\_UNIQUE` (`SupplierID` ASC),

INDEX `fk\_EquipmentInventory\_Order1\_idx` (`Order\_\_AutoID` ASC),

CONSTRAINT `fk\_EquipmentInventory\_Order1`

FOREIGN KEY (`Order\_\_AutoID`)

REFERENCES `mydb`.`Order` (`\_AutoID`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

-- -----------------------------------------------------

-- Table `mydb`.`StockGoods`

-- -----------------------------------------------------

DROP TABLE IF EXISTS `mydb`.`StockGoods` ;

CREATE TABLE IF NOT EXISTS `mydb`.`StockGoods` (

`\_AutoID` INT NOT NULL AUTO\_INCREMENT,

`TypeName` VARCHAR(45) NOT NULL,

`Count` INT NOT NULL,

`SpotName` VARCHAR(45) NOT NULL,

`SpecificationType` VARCHAR(45) NULL,

`Remarks` TEXT NULL,

`SupplierID` INT NOT NULL,

`Order\_\_AutoID` INT NOT NULL,

`Supplier\_\_AutoID` INT NOT NULL,

PRIMARY KEY (`\_AutoID`),

UNIQUE INDEX `SupplierID\_UNIQUE` (`SupplierID` ASC),

INDEX `fk\_stockGoods\_Order1\_idx` (`Order\_\_AutoID` ASC),

INDEX `fk\_stockGoods\_Supplier1\_idx` (`Supplier\_\_AutoID` ASC),

CONSTRAINT `fk\_stockGoods\_Order1`

FOREIGN KEY (`Order\_\_AutoID`)

REFERENCES `mydb`.`Order` (`\_AutoID`)

ON DELETE NO ACTION

ON UPDATE NO ACTION,

CONSTRAINT `fk\_stockGoods\_Supplier1`

FOREIGN KEY (`Supplier\_\_AutoID`)

REFERENCES `mydb`.`Supplier` (`\_AutoID`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

-- -----------------------------------------------------

-- Table `mydb`.`LandscapeMaterials`

-- -----------------------------------------------------

DROP TABLE IF EXISTS `mydb`.`LandscapeMaterials` ;

CREATE TABLE IF NOT EXISTS `mydb`.`LandscapeMaterials` (

`\_AutoID` INT NOT NULL AUTO\_INCREMENT,

`SupplierID` INT NOT NULL,

`TypeName` VARCHAR(45) NOT NULL,

`SpotName` VARCHAR(45) NOT NULL,

`SpecificationType` VARCHAR(45) NULL,

`Count` VARCHAR(45) NOT NULL,

`Remarks` TEXT NULL,

`Supplier\_\_AutoID` INT NOT NULL,

`Order\_\_AutoID` INT NOT NULL,

PRIMARY KEY (`\_AutoID`),

UNIQUE INDEX `SupplierID\_UNIQUE` (`SupplierID` ASC),

INDEX `fk\_LandscapeMaterials\_Supplier1\_idx` (`Supplier\_\_AutoID` ASC),

UNIQUE INDEX `Supplier\_\_AutoID\_UNIQUE` (`Supplier\_\_AutoID` ASC),

INDEX `fk\_LandscapeMaterials\_Order1\_idx` (`Order\_\_AutoID` ASC),

CONSTRAINT `fk\_LandscapeMaterials\_Supplier1`

FOREIGN KEY (`Supplier\_\_AutoID`)

REFERENCES `mydb`.`Supplier` (`\_AutoID`)

ON DELETE NO ACTION

ON UPDATE NO ACTION,

CONSTRAINT `fk\_LandscapeMaterials\_Order1`

FOREIGN KEY (`Order\_\_AutoID`)

REFERENCES `mydb`.`Order` (`\_AutoID`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

-- -----------------------------------------------------

-- Table `mydb`.`Customer`

-- -----------------------------------------------------

DROP TABLE IF EXISTS `mydb`.`Customer` ;

CREATE TABLE IF NOT EXISTS `mydb`.`Customer` (

`\_AutoID` INT NOT NULL AUTO\_INCREMENT,

`name` VARCHAR(45) NOT NULL,

`address1` VARCHAR(45) NULL,

`address2` VARCHAR(45) NULL,

`CityStateZip` VARCHAR(100) NULL,

`Phone1` VARCHAR(45) NULL,

`Phone2` VARCHAR(50) NULL,

`Referred` VARCHAR(100) NULL,

`CustomerSince` VARCHAR(100) NULL,

`demand` VARCHAR(200) NULL,

`notes` TEXT NULL,

PRIMARY KEY (`\_AutoID`))

ENGINE = InnoDB;

-- -----------------------------------------------------

-- Table `mydb`.`RetailSalesTicket\_Detaileds`

-- -----------------------------------------------------

DROP TABLE IF EXISTS `mydb`.`RetailSalesTicket\_Detaileds` ;

CREATE TABLE IF NOT EXISTS `mydb`.`RetailSalesTicket\_Detaileds` (

`\_AutoID` INT NOT NULL AUTO\_INCREMENT,

`\_MainID` INT NOT NULL,

`DetailedsType` VARCHAR(45) NOT NULL,

`MaterialsID` INT NOT NULL,

`Price` DECIMAL(18,2) NOT NULL,

`Count` DECIMAL(18,2) NOT NULL,

`TotlePrice` DECIMAL(18,2) NOT NULL,

`stockGoods\_\_AutoID` INT NOT NULL,

`LandscapeMaterials\_\_AutoID` INT NOT NULL,

PRIMARY KEY (`\_AutoID`),

UNIQUE INDEX `\_MainID\_UNIQUE` (`\_MainID` ASC),

INDEX `fk\_RetailSalesTicket\_Detaileds\_stockGoods1\_idx` (`stockGoods\_\_AutoID` ASC),

INDEX `fk\_RetailSalesTicket\_Detaileds\_LandscapeMaterials1\_idx` (`LandscapeMaterials\_\_AutoID` ASC),

CONSTRAINT `fk\_RetailSalesTicket\_Detaileds\_stockGoods1`

FOREIGN KEY (`stockGoods\_\_AutoID`)

REFERENCES `mydb`.`StockGoods` (`\_AutoID`)

ON DELETE NO ACTION

ON UPDATE NO ACTION,

CONSTRAINT `fk\_RetailSalesTicket\_Detaileds\_LandscapeMaterials1`

FOREIGN KEY (`LandscapeMaterials\_\_AutoID`)

REFERENCES `mydb`.`LandscapeMaterials` (`\_AutoID`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

-- -----------------------------------------------------

-- Table `mydb`.`RetailSalesTicket`

-- -----------------------------------------------------

DROP TABLE IF EXISTS `mydb`.`RetailSalesTicket` ;

CREATE TABLE IF NOT EXISTS `mydb`.`RetailSalesTicket` (

`\_AutoID` INT NOT NULL AUTO\_INCREMENT,

`Date` DATE NOT NULL,

`EmployeeID` INT NOT NULL,

`CustomerID` INT NOT NULL,

`RetailSalesTicket\_Detaileds\_\_AutoID` INT NOT NULL,

`customer\_\_AutoID` INT NOT NULL,

`Employee\_\_AutoID` INT NOT NULL,

`Employee\_salaries\_\_AutoID` INT NOT NULL,

PRIMARY KEY (`\_AutoID`),

INDEX `fk\_RetailSalesTicket\_RetailSalesTicket\_Detaileds1\_idx` (`RetailSalesTicket\_Detaileds\_\_AutoID` ASC),

INDEX `fk\_RetailSalesTicket\_customer1\_idx` (`customer\_\_AutoID` ASC),

UNIQUE INDEX `EmployeeID\_UNIQUE` (`EmployeeID` ASC),

UNIQUE INDEX `CustomerID\_UNIQUE` (`CustomerID` ASC),

INDEX `fk\_RetailSalesTicket\_Employee1\_idx` (`Employee\_\_AutoID` ASC, `Employee\_salaries\_\_AutoID` ASC),

CONSTRAINT `fk\_RetailSalesTicket\_RetailSalesTicket\_Detaileds1`

FOREIGN KEY (`RetailSalesTicket\_Detaileds\_\_AutoID`)

REFERENCES `mydb`.`RetailSalesTicket\_Detaileds` (`\_AutoID`)

ON DELETE NO ACTION

ON UPDATE NO ACTION,

CONSTRAINT `fk\_RetailSalesTicket\_customer1`

FOREIGN KEY (`customer\_\_AutoID`)

REFERENCES `mydb`.`Customer` (`\_AutoID`)

ON DELETE NO ACTION

ON UPDATE NO ACTION,

CONSTRAINT `fk\_RetailSalesTicket\_Employee1`

FOREIGN KEY (`Employee\_\_AutoID` , `Employee\_salaries\_\_AutoID`)

REFERENCES `mydb`.`Employee` (`\_AutoID` , `salaries\_\_AutoID`)

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;