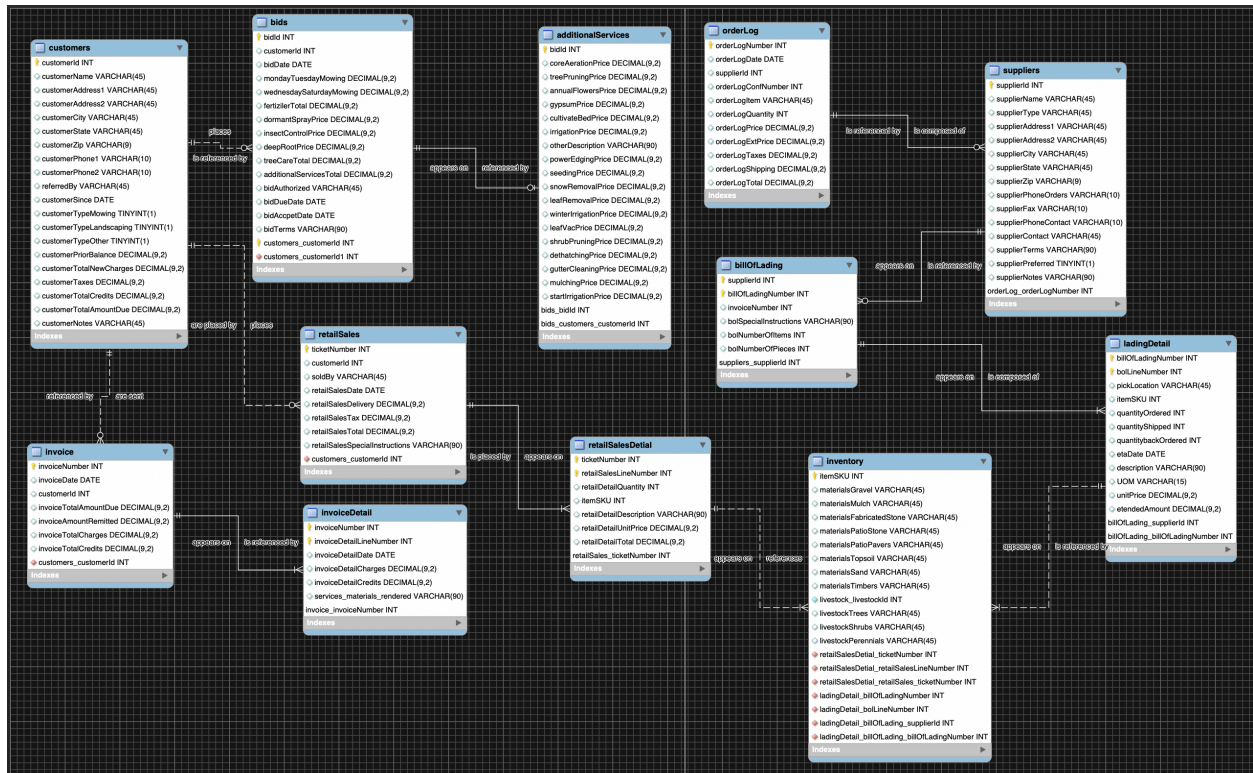


John Furlong
Homework 4
CSCI 3287
November 3, 2019



-- 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_DATE,ERROR_FOR_DIVISION_BY_ZERO,NO_ENGINE_SUBSTITUTION';
```

-- Schema Homework4

-- Schema Homework4

CREATE SCHEMA IF NOT EXISTS `Homework4` DEFAULT CHARACTER SET utf8 ;
USE `Homework4` ;

-- Table `Homework4`.`customers`

CREATE TABLE IF NOT EXISTS `Homework4`.`customers` (
 `customerId` INT NOT NULL,
 `customerName` VARCHAR(45) NULL,
 `customerAddress1` VARCHAR(45) NULL,
 `customerAddress2` VARCHAR(45) NULL,
 `customerCity` VARCHAR(45) NULL,
 `customerState` VARCHAR(45) NULL,
 `customerZip` VARCHAR(9) NULL,
 `customerPhone1` VARCHAR(10) NULL,
 `customerPhone2` VARCHAR(10) NULL,
 `referredBy` VARCHAR(45) NULL,
 `customerSince` DATE NULL,
 `customerTypeMowing` TINYINT(1) NULL,
 `customerTypeLandscaping` TINYINT(1) NULL,
 `customerTypeOther` TINYINT(1) NULL,
 `customerPriorBalance` DECIMAL(9,2) NULL,
 `customerTotalNewCharges` DECIMAL(9,2) NULL,
 `customerTaxes` DECIMAL(9,2) NULL,
 `customerTotalCredits` DECIMAL(9,2) NULL,
 `customerTotalAmountDue` DECIMAL(9,2) NULL,
 `customerNotes` VARCHAR(45) NULL,
 PRIMARY KEY (`customerId`))
ENGINE = InnoDB;

-- Table `Homework4`.`orderLog`

CREATE TABLE IF NOT EXISTS `Homework4`.`orderLog` (
 `orderLogNumber` INT NOT NULL,
 `orderLogDate` DATE NULL,
 `supplierId` INT NULL,
 `orderLogConfNumber` INT NULL,
 `orderLogItem` VARCHAR(45) NULL,
 `orderLogQuantity` INT NULL,
 `orderLogPrice` DECIMAL(9,2) NULL,

```
`orderLogExtPrice` DECIMAL(9,2) NULL,  
`orderLogTaxes` DECIMAL(9,2) NULL,  
`orderLogShipping` DECIMAL(9,2) NULL,  
`orderLogTotal` DECIMAL(9,2) NULL,  
PRIMARY KEY (`orderLogNumber`))  
ENGINE = InnoDB;
```

```
-----  
-- Table `Homework4`.`suppliers`  
-----
```

```
CREATE TABLE IF NOT EXISTS `Homework4`.`suppliers` (  
  `supplierId` INT NOT NULL,  
  `supplierName` VARCHAR(45) NULL,  
  `supplierType` VARCHAR(45) NULL,  
  `supplierAddress1` VARCHAR(45) NULL,  
  `supplierAddress2` VARCHAR(45) NULL,  
  `supplierCity` VARCHAR(45) NULL,  
  `supplierState` VARCHAR(45) NULL,  
  `supplierZip` VARCHAR(9) NULL,  
  `supplierPhoneOrders` VARCHAR(10) NULL,  
  `supplierFax` VARCHAR(10) NULL,  
  `supplierPhoneContact` VARCHAR(10) NULL,  
  `supplierContact` VARCHAR(45) NULL,  
  `supplierTerms` VARCHAR(90) NULL,  
  `supplierPreferred` TINYINT(1) NULL,  
  `supplierNotes` VARCHAR(90) NULL,  
  `orderLog_orderLogNumber` INT NOT NULL,  
  PRIMARY KEY (`supplierId`, `orderLog_orderLogNumber`),  
  INDEX `fk_suppliers_orderLog1_idx` (`orderLog_orderLogNumber` ASC) VISIBLE,  
  CONSTRAINT `fk_suppliers_orderLog1`  
    FOREIGN KEY (`orderLog_orderLogNumber`)  
      REFERENCES `Homework4`.`orderLog` (`orderLogNumber`)  
    ON DELETE NO ACTION  
    ON UPDATE NO ACTION)  
ENGINE = InnoDB;
```

```
-----  
-- Table `Homework4`.`invoice`  
-----
```

```
CREATE TABLE IF NOT EXISTS `Homework4`.`invoice` (  
  `invoiceNumber` INT NOT NULL,  
  `invoiceDate` DATE NULL,
```

```

`customerId` INT NULL,
`invoiceTotalAmountDue` DECIMAL(9,2) NULL,
`invoiceAmountRemitted` DECIMAL(9,2) NULL,
`invoiceTotalCharges` DECIMAL(9,2) NULL,
`invoiceTotalCredits` DECIMAL(9,2) NULL,
`customers_customerId` INT NOT NULL,
PRIMARY KEY (`invoiceNumber`),
INDEX `fk_invoice_customers1_idx` (`customers_customerId` ASC) VISIBLE,
CONSTRAINT `fk_invoice_customers1`
  FOREIGN KEY (`customers_customerId`)
    REFERENCES `Homework4`.`customers` (`customerId`)
    ON DELETE NO ACTION
    ON UPDATE NO ACTION)
ENGINE = InnoDB;

```

```

-----
-- Table `Homework4`.`invoiceDetail`
-----

```

```

CREATE TABLE IF NOT EXISTS `Homework4`.`invoiceDetail` (
  `invoiceNumber` INT NOT NULL,
  `invoiceDetailLineNumber` INT NOT NULL,
  `invoiceDetailDate` DATE NULL,
  `invoiceDetailCharges` DECIMAL(9,2) NULL,
  `invoiceDetailCredits` DECIMAL(9,2) NULL,
  `services_materials_rendered` VARCHAR(90) NULL,
  `invoice_invoiceNumber` INT NOT NULL,
  PRIMARY KEY (`invoiceNumber`, `invoiceDetailLineNumber`, `invoice_invoiceNumber`),
  INDEX `fk_invoiceDetail_invoice1_idx` (`invoice_invoiceNumber` ASC) VISIBLE,
  CONSTRAINT `fk_invoiceDetail_invoice1`
    FOREIGN KEY (`invoice_invoiceNumber`)
      REFERENCES `Homework4`.`invoice` (`invoiceNumber`)
      ON DELETE NO ACTION
      ON UPDATE NO ACTION)
ENGINE = InnoDB;

```

```

-----
-- Table `Homework4`.`billOfLading`
-----

```

```

CREATE TABLE IF NOT EXISTS `Homework4`.`billOfLading` (
  `supplierId` INT NOT NULL,
  `billOfLadingNumber` INT NOT NULL,
  `invoiceNumber` INT NULL,

```

```

`bolSpecialInstructions` VARCHAR(90) NULL,
`bolNumberOfItems` INT NULL,
`bolNumberOfPieces` INT NULL,
`suppliers_supplierId` INT NOT NULL,
PRIMARY KEY (`supplierId`, `bilOfLadingNumber`, `suppliers_supplierId`),
INDEX `fk_bilOfLading_suppliers1_idx` (`suppliers_supplierId` ASC) VISIBLE,
CONSTRAINT `fk_bilOfLading_suppliers1`
  FOREIGN KEY (`suppliers_supplierId`)
    REFERENCES `Homework4`.`suppliers` (`supplierId`)
    ON DELETE NO ACTION
    ON UPDATE NO ACTION)
ENGINE = InnoDB;

```

```

-----
-- Table `Homework4`.`ladingDetail`
-----

```

```

CREATE TABLE IF NOT EXISTS `Homework4`.`ladingDetail` (
  `bilOfLadingNumber` INT NOT NULL,
  `bolLineNumber` INT NOT NULL,
  `pickLocation` VARCHAR(45) NULL,
  `itemSKU` INT NULL,
  `quantityOrdered` INT NULL,
  `quantityShipped` INT NULL,
  `quantitybackOrdered` INT NULL,
  `etaDate` DATE NULL,
  `description` VARCHAR(90) NULL,
  `UOM` VARCHAR(15) NULL,
  `unitPrice` DECIMAL(9,2) NULL,
  `etendedAmount` DECIMAL(9,2) NULL,
  `bilOfLading_supplierId` INT NOT NULL,
  `bilOfLading_bilOfLadingNumber` INT NOT NULL,
  PRIMARY KEY (`bilOfLadingNumber`, `bolLineNumber`, `bilOfLading_supplierId`,
    `bilOfLading_bilOfLadingNumber`),
  INDEX `fk_ladingDetail_bilOfLading1_idx` (`bilOfLading_supplierId` ASC,
    `bilOfLading_bilOfLadingNumber` ASC) VISIBLE,
  CONSTRAINT `fk_ladingDetail_bilOfLading1`
    FOREIGN KEY (`bilOfLading_supplierId`, `bilOfLading_bilOfLadingNumber`)
      REFERENCES `Homework4`.`bilOfLading` (`supplierId`, `bilOfLadingNumber`)
      ON DELETE NO ACTION
      ON UPDATE NO ACTION)
ENGINE = InnoDB;

```

-- Table `Homework4`.`retailSales`

```
CREATE TABLE IF NOT EXISTS `Homework4`.`retailSales` (  
  `ticketNumber` INT NOT NULL,  
  `customerId` INT NULL,  
  `soldBy` VARCHAR(45) NULL,  
  `retailSalesDate` DATE NULL,  
  `retailSalesDelivery` DECIMAL(9,2) NULL,  
  `retailSalesTax` DECIMAL(9,2) NULL,  
  `retailSalesTotal` DECIMAL(9,2) NULL,  
  `retailSalesSpecialInstructions` VARCHAR(90) NULL,  
  `customers_customerId` INT NOT NULL,  
  PRIMARY KEY (`ticketNumber`),  
  INDEX `fk_retailSales_customers1_idx` (`customers_customerId` ASC) VISIBLE,  
  CONSTRAINT `fk_retailSales_customers1`  
    FOREIGN KEY (`customers_customerId`)  
      REFERENCES `Homework4`.`customers` (`customerId`)  
      ON DELETE NO ACTION  
      ON UPDATE NO ACTION)  
ENGINE = InnoDB;
```

-- Table `Homework4`.`retailSalesDetial`

```
CREATE TABLE IF NOT EXISTS `Homework4`.`retailSalesDetial` (  
  `ticketNumber` INT NOT NULL,  
  `retailSalesLineNumber` INT NOT NULL,  
  `retailDetailQuantity` INT NULL,  
  `itemSKU` INT NULL,  
  `retailDetailDescription` VARCHAR(90) NULL,  
  `retailDetailUnitPrice` DECIMAL(9,2) NULL,  
  `retailDetailTotal` DECIMAL(9,2) NULL,  
  `retailSales_ticketNumber` INT NOT NULL,  
  PRIMARY KEY (`ticketNumber`, `retailSalesLineNumber`, `retailSales_ticketNumber`),  
  INDEX `fk_retailSalesDetial_retailSales1_idx` (`retailSales_ticketNumber` ASC) VISIBLE,  
  CONSTRAINT `fk_retailSalesDetial_retailSales1`  
    FOREIGN KEY (`retailSales_ticketNumber`)  
      REFERENCES `Homework4`.`retailSales` (`ticketNumber`)  
      ON DELETE NO ACTION  
      ON UPDATE NO ACTION)  
ENGINE = InnoDB;
```

-- Table `Homework4`.`inventory`

```
CREATE TABLE IF NOT EXISTS `Homework4`.`inventory` (  
  `itemSKU` INT NOT NULL,  
  `materialsGravel` VARCHAR(45) NULL,  
  `materialsMulch` VARCHAR(45) NULL,  
  `materialsFabricatedStone` VARCHAR(45) NULL,  
  `materialsPatioStone` VARCHAR(45) NULL,  
  `materialsPatioPavers` VARCHAR(45) NULL,  
  `materialsTopsoil` VARCHAR(45) NULL,  
  `materialsSand` VARCHAR(45) NULL,  
  `materialsTimbers` VARCHAR(45) NULL,  
  `livestock_livestockId` INT NOT NULL,  
  `livestockTrees` VARCHAR(45) NULL,  
  `livestockShrubs` VARCHAR(45) NULL,  
  `livestockPerennials` VARCHAR(45) NULL,  
  `retailSalesDetial_ticketNumber` INT NOT NULL,  
  `retailSalesDetial_retailSalesLineNumber` INT NOT NULL,  
  `retailSalesDetial_retailSales_ticketNumber` INT NOT NULL,  
  `ladingDetail_billOfLadingNumber` INT NOT NULL,  
  `ladingDetail_bolLineNumber` INT NOT NULL,  
  `ladingDetail_billOfLading_supplierId` INT NOT NULL,  
  `ladingDetail_billOfLading_billOfLadingNumber` INT NOT NULL,  
  PRIMARY KEY (`itemSKU`),  
  INDEX `fk_inventory_retailSalesDetial1_idx` (`retailSalesDetial_ticketNumber` ASC,  
  `retailSalesDetial_retailSalesLineNumber` ASC, `retailSalesDetial_retailSales_ticketNumber`  
  ASC) VISIBLE,  
  INDEX `fk_inventory_ladingDetail1_idx` (`ladingDetail_billOfLadingNumber` ASC,  
  `ladingDetail_bolLineNumber` ASC, `ladingDetail_billOfLading_supplierId` ASC,  
  `ladingDetail_billOfLading_billOfLadingNumber` ASC) VISIBLE,  
  CONSTRAINT `fk_inventory_retailSalesDetial1`  
    FOREIGN KEY (`retailSalesDetial_ticketNumber` , `retailSalesDetial_retailSalesLineNumber` ,  
  `retailSalesDetial_retailSales_ticketNumber`)  
    REFERENCES `Homework4`.`retailSalesDetial` (`ticketNumber` , `retailSalesLineNumber` ,  
  `retailSales_ticketNumber`)  
    ON DELETE NO ACTION  
    ON UPDATE NO ACTION,  
  CONSTRAINT `fk_inventory_ladingDetail1`  
    FOREIGN KEY (`ladingDetail_billOfLadingNumber` , `ladingDetail_bolLineNumber` ,  
  `ladingDetail_billOfLading_supplierId` , `ladingDetail_billOfLading_billOfLadingNumber`)  
    REFERENCES `Homework4`.`ladingDetail` (`billOfLadingNumber` , `bolLineNumber` ,  
  `billOfLading_supplierId` , `billOfLading_billOfLadingNumber`)
```

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

```
-----
-- Table `Homework4`.`bids`
-----
```

```
CREATE TABLE IF NOT EXISTS `Homework4`.`bids` (
  `bidId` INT NOT NULL,
  `customerId` INT NULL,
  `bidDate` DATE NULL,
  `mondayTuesdayMowing` DECIMAL(9,2) NULL,
  `wednesdaySaturdayMowing` DECIMAL(9,2) NULL,
  `fertilizerTotal` DECIMAL(9,2) NULL,
  `dormantSprayPrice` DECIMAL(9,2) NULL,
  `insectControlPrice` DECIMAL(9,2) NULL,
  `deepRootPrice` DECIMAL(9,2) NULL,
  `treeCareTotal` DECIMAL(9,2) NULL,
  `additionalServicesTotal` DECIMAL(9,2) NULL,
  `bidAuthorized` VARCHAR(45) NULL,
  `bidDueDate` DATE NULL,
  `bidAccpetDate` DATE NULL,
  `bidTerms` VARCHAR(90) NULL,
  `customers_customerId` INT NOT NULL,
  `customers_customerId1` INT NOT NULL,
  PRIMARY KEY (`bidId`, `customers_customerId`),
  INDEX `fk_bids_customers1_idx` (`customers_customerId1` ASC) VISIBLE,
  CONSTRAINT `fk_bids_customers1`
    FOREIGN KEY (`customers_customerId1`)
      REFERENCES `Homework4`.`customers` (`customerId`)
    ON DELETE NO ACTION
    ON UPDATE NO ACTION)
ENGINE = InnoDB;
```

```
-----
-- Table `Homework4`.`additionalServices`
-----
```

```
CREATE TABLE IF NOT EXISTS `Homework4`.`additionalServices` (
  `bidId` INT NOT NULL,
  `coreAerationPrice` DECIMAL(9,2) NULL,
  `treePruningPrice` DECIMAL(9,2) NULL,
  `annualFlowersPrice` DECIMAL(9,2) NULL,
```



```

`gypsumPrice` DECIMAL(9,2) NULL,
`cultivateBedPrice` DECIMAL(9,2) NULL,
`irrigationPrice` DECIMAL(9,2) NULL,
`otherDescription` VARCHAR(90) NULL,
`powerEdgingPrice` DECIMAL(9,2) NULL,
`seedingPrice` DECIMAL(9,2) NULL,
`snowRemovalPrice` DECIMAL(9,2) NULL,
`leafRemovalPrice` DECIMAL(9,2) NULL,
`winterIrrigationPrice` DECIMAL(9,2) NULL,
`leafVacPrice` DECIMAL(9,2) NULL,
`shrubPruningPrice` DECIMAL(9,2) NULL,
`dethatchingPrice` DECIMAL(9,2) NULL,
`gutterCleaningPrice` DECIMAL(9,2) NULL,
`mulchingPrice` DECIMAL(9,2) NULL,
`startIrrigationPrice` DECIMAL(9,2) NULL,
`bids_bidId` INT NOT NULL,
`bids_customers_customerId` INT NOT NULL,
PRIMARY KEY (`bidId`, `bids_bidId`, `bids_customers_customerId`),
INDEX `fk_additionalServices_bids1_idx` (`bids_bidId` ASC, `bids_customers_customerId` ASC)
VISIBLE,
CONSTRAINT `fk_additionalServices_bids1`
FOREIGN KEY (`bids_bidId`, `bids_customers_customerId`)
REFERENCES `Homework4`.`bids` (`bidId`, `customers_customerId`)
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;

```