Jake Shay
CSCI 3287
HW 2

Section 1:

Customer
- CustomerID INT
- CustomerName VARCHAR(45)
- CustomerAddress1 VARCHAR(45)
- CustomerAddress2 VARCHAR(45)
- CustomerCity VARCHAR(45)
- CustomerState VARCHAR(45)
- CustomerZip INT
- CustomerPhone1 VARCHAR(45)
- CustomerPhone2 VARCHAR(45)
- ReferredBy VARCHAR(45)
- CustomerSince DATETIME
- CustomerTypeMowing VARCHAR(45)
- CustomerTypeLandscaping VARCHAR(45)
- CustomerPriorBalance DECIMAL(9,2)
- CustomerTotalNewCharges DECIMAL(9,2)
- CustomerTaxes DECIMAL(9,2)
- CustomerTotalCredits DECIMAL(9,2)
- CustomerTotalAmountDue DECIMAL(9,2)
- CustomerTypeOther VARCHAR(45)
- Notes VARCHAR(45)

Indexes

references   is referenced by

Invoice
- InvoiceID INT
- InvoiceDate DATETIME
- CustomerID INT
- InvoiceTotalAmountDue DECIMAL(9,2)
- InvoiveAmountRemitted DECIMAL(9,2)
- TotalCharges DECIMAL(9,2)
- TotalCredits DECIMAL(9,2)
- Customer_CustomerID INT

Indexes

composes   is composed of

InvoiceDetail
- InvoiceID INT
- InvoiceDetailID INT
- InvoiceDetailDate DATETIME
- Service_Material VARCHAR(45)
- Charges DECIMAL(9,2)
- Credits DECIMAL(9,2)
- Invoice_InvoiceID INT

Indexes
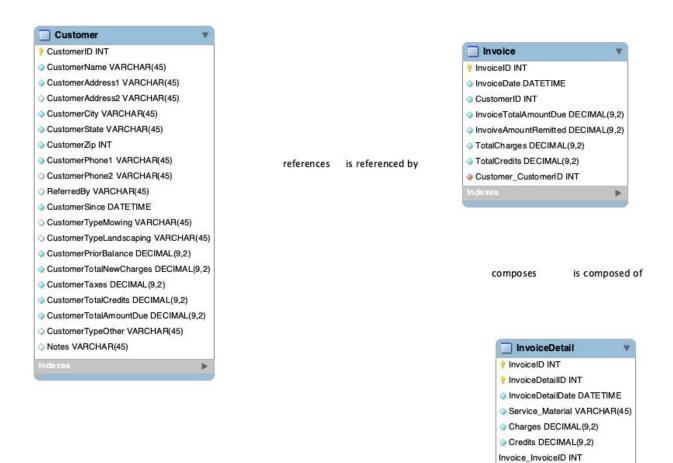
Section 2:
-- MySQL Script generated by MySQL Workbench
-- Sun Sep 29 19:38:13 2019
-- Model: New Model   Version: 1.0
-- MySQL Workbench Forward Engineering

SET @OLD_UNIQUE_CHECKS=@@UNIQUE_CHECKS, UNIQUE_CHECKS=0;
SET @OLD_FOREIGN_KEY_CHECKS=@@FOREIGN_KEY_CHECKS,
FOREIGN_KEY_CHECKS=0;

```sql
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 mydb
-- -----------------------------------------------------


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


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

CREATE TABLE IF NOT EXISTS `mydb`.`Customer` (
  `CustomerID` INT NOT NULL,
  `CustomerName` VARCHAR(45) NOT NULL,
  `CustomerAddress1` VARCHAR(45) NOT NULL,
  `CustomerAddress2` VARCHAR(45) NULL,
  `CustomerCity` VARCHAR(45) NOT NULL,
  `CustomerState` VARCHAR(45) NOT NULL,
  `CustomerZip` INT NOT NULL,
  `CustomerPhone1` VARCHAR(45) NOT NULL,
  `CustomerPhone2` VARCHAR(45) NULL,
  `ReferredBy` VARCHAR(45) NULL,
  `CustomerSince` DATETIME NOT NULL,
  `CustomerTypeMowing` VARCHAR(45) NULL,
  `CustomerTypeLandscaping` VARCHAR(45) NULL,
  `CustomerPriorBalance` DECIMAL(9,2) NOT NULL,
  `CustomerTotalNewCharges` DECIMAL(9,2) NOT NULL,
  `CustomerTaxes` DECIMAL(9,2) NOT NULL,
  `CustomerTotalCredits` DECIMAL(9,2) NOT NULL,
  `CustomerTotalAmountDue` DECIMAL(9,2) NOT NULL,
  `CustomerTypeOther` VARCHAR(45) NULL,
  `Notes` VARCHAR(45) NULL,
  PRIMARY KEY (`CustomerID`))
ENGINE = InnoDB;
```

```sql
-- -----------------------------------------------------
-- Table `mydb`.`Invoice`
-- -----------------------------------------------------
DROP TABLE IF EXISTS `mydb`.`Invoice` ;

CREATE TABLE IF NOT EXISTS `mydb`.`Invoice` (
  `InvoiceID` INT NOT NULL,
  `InvoiceDate` DATETIME NOT NULL,
  `CustomerID` INT NOT NULL,
  `InvoiceTotalAmountDue` DECIMAL(9,2) NOT NULL,
  `InvoiveAmountRemitted` DECIMAL(9,2) NOT NULL,
  `TotalCharges` DECIMAL(9,2) NOT NULL,
  `TotalCredits` DECIMAL(9,2) NOT NULL,
  `Customer_CustomerID` INT NOT NULL,
  PRIMARY KEY (`InvoiceID`),
  CONSTRAINT `fk_Invoice_Customer1`
    FOREIGN KEY (`Customer_CustomerID`)
    REFERENCES `mydb`.`Customer` (`CustomerID`)
    ON DELETE NO ACTION
    ON UPDATE NO ACTION)
ENGINE = InnoDB;

CREATE INDEX `fk_Invoice_Customer1_idx` ON `mydb`.`Invoice` (`Customer_CustomerID`
ASC) VISIBLE;



-- -----------------------------------------------------
-- Table `mydb`.`InvoiceDetail`
-- -----------------------------------------------------
DROP TABLE IF EXISTS `mydb`.`InvoiceDetail` ;

CREATE TABLE IF NOT EXISTS `mydb`.`InvoiceDetail` (
  `InvoiceID` INT NOT NULL,
  `InvoiceDetailID` INT NOT NULL,
  `InvoiceDetailDate` DATETIME NOT NULL,
  `Service_Material` VARCHAR(45) NOT NULL,
  `Charges` DECIMAL(9,2) NOT NULL,
  `Credits` DECIMAL(9,2) NOT NULL,
  `Invoice_InvoiceID` INT NOT NULL,
  PRIMARY KEY (`InvoiceID`, `InvoiceDetailID`, `Invoice_InvoiceID`),
  CONSTRAINT `fk_InvoiceDetail_Invoice`
    FOREIGN KEY (`Invoice_InvoiceID`)
```

```
    REFERENCES `mydb`.`Invoice` (`InvoiceID`)
    ON DELETE NO ACTION
    ON UPDATE NO ACTION)
ENGINE = InnoDB;

CREATE INDEX `fk_InvoiceDetail_Invoice_idx` ON `mydb`.`InvoiceDetail` (`Invoice_InvoiceID`
ASC) VISIBLE;


SET SQL_MODE=@OLD_SQL_MODE;
SET FOREIGN_KEY_CHECKS=@OLD_FOREIGN_KEY_CHECKS;
SET UNIQUE_CHECKS=@OLD_UNIQUE_CHECKS;
```