-- 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';

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-- Schema mydb

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-- Schema csdepartment

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

-- Schema csdepartment

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

USE `csdepartment` ;

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-- Table `csdepartment`.`teachers`

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CREATE TABLE IF NOT EXISTS `csdepartment`.`teachers` (

`teacherID` INT(11) NOT NULL AUTO\_INCREMENT,

`name` VARCHAR(45) NOT NULL,

`username` VARCHAR(45) NOT NULL,

`password` CHAR(5) NOT NULL,

PRIMARY KEY (`teacherID`),

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

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

UNIQUE INDEX `username\_UNIQUE` (`username` ASC))

ENGINE = InnoDB

AUTO\_INCREMENT = 9

DEFAULT CHARACTER SET = utf8;

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

-- Table `csdepartment`.`courses`

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

CREATE TABLE IF NOT EXISTS `csdepartment`.`courses` (

`courseID` INT(11) NOT NULL AUTO\_INCREMENT,

`name` VARCHAR(45) NOT NULL,

`teacherID` INT(11) NOT NULL,

`credits` INT(11) NOT NULL,

`room` VARCHAR(45) NOT NULL,

PRIMARY KEY (`courseID`),

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

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

INDEX `teacherID\_idx` (`teacherID` ASC),

CONSTRAINT `teacherID`

FOREIGN KEY (`teacherID`)

REFERENCES `csdepartment`.`teachers` (`teacherID`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB

AUTO\_INCREMENT = 8

DEFAULT CHARACTER SET = utf8;

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

-- Table `csdepartment`.`students`

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

CREATE TABLE IF NOT EXISTS `csdepartment`.`students` (

`studentID` INT(11) NOT NULL AUTO\_INCREMENT,

`name` VARCHAR(60) NOT NULL,

`cardID` CHAR(10) NOT NULL,

`cnp` CHAR(13) NOT NULL,

`address` VARCHAR(60) NOT NULL,

`groupID` CHAR(5) NOT NULL,

`username` VARCHAR(45) NOT NULL,

`password` CHAR(5) NOT NULL,

PRIMARY KEY (`studentID`),

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

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

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

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

UNIQUE INDEX `username\_UNIQUE` (`username` ASC))

ENGINE = InnoDB

AUTO\_INCREMENT = 17

DEFAULT CHARACTER SET = utf8;

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

-- Table `csdepartment`.`enrollments`

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

CREATE TABLE IF NOT EXISTS `csdepartment`.`enrollments` (

`enrollmentID` INT(11) NOT NULL AUTO\_INCREMENT,

`studentID` INT(11) NOT NULL,

`courseID` INT(11) NOT NULL,

`examGrade` FLOAT NULL DEFAULT NULL,

`startDate` DATE NULL DEFAULT NULL,

`endDate` DATE NULL DEFAULT NULL,

PRIMARY KEY (`enrollmentID`, `studentID`, `courseID`),

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

INDEX `studentID\_idx` (`studentID` ASC),

INDEX `courseID\_idx` (`courseID` ASC),

CONSTRAINT `courseID`

FOREIGN KEY (`courseID`)

REFERENCES `csdepartment`.`courses` (`courseID`)

ON DELETE CASCADE

ON UPDATE CASCADE,

CONSTRAINT `studentID`

FOREIGN KEY (`studentID`)

REFERENCES `csdepartment`.`students` (`studentID`)

ON DELETE CASCADE

ON UPDATE CASCADE)

ENGINE = InnoDB

AUTO\_INCREMENT = 20

DEFAULT CHARACTER SET = utf8;

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

-- Table `csdepartment`.`enrollment\_grades`

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

CREATE TABLE IF NOT EXISTS `csdepartment`.`enrollment\_grades` (

`id` INT(11) NOT NULL AUTO\_INCREMENT,

`enrollmentID` INT(11) NOT NULL,

`grade` FLOAT NOT NULL,

PRIMARY KEY (`id`),

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

INDEX `enrollmentID\_idx` (`enrollmentID` ASC),

CONSTRAINT `enrollmentID`

FOREIGN KEY (`enrollmentID`)

REFERENCES `csdepartment`.`enrollments` (`enrollmentID`)

ON DELETE CASCADE

ON UPDATE CASCADE)

ENGINE = InnoDB

AUTO\_INCREMENT = 14

DEFAULT CHARACTER SET = utf8;

SET SQL\_MODE=@OLD\_SQL\_MODE;

SET FOREIGN\_KEY\_CHECKS=@OLD\_FOREIGN\_KEY\_CHECKS;

SET UNIQUE\_CHECKS=@OLD\_UNIQUE\_CHECKS;