-- MySQL Workbench Forward Engineering

ENGINE = InnoDB

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,ERRO R_FOR_DIVISION_BY_ZERO,NO_ENGINE_SUBSTITUTION'; -- Schema mydb -- Schema G7AgileExperience -- Schema G7AgileExperience CREATE SCHEMA IF NOT EXISTS `G7AgileExperience` DEFAULT CHARACTER SET utf8mb4; USE `G7AgileExperience`; ------- Table `G7AgileExperience`. `Class` CREATE TABLE IF NOT EXISTS `G7AgileExperience`. `Class` ('idClass' INT(11) NOT NULL, `name` VARCHAR(45) NULL DEFAULT NULL, PRIMARY KEY ('idClass'))

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DEFAULT CHARACTER SET = utf8mb4;
-- Table `G7AgileExperience`.`Student`
CREATE TABLE IF NOT EXISTS `G7AgileExperience`.`Student` (
'idStudent' INT(11) NOT NULL,
 `fullName` VARCHAR(45) NULL DEFAULT NULL,
 PRIMARY KEY ('idStudent'))
ENGINE = InnoDB
DEFAULT CHARACTER SET = utf8mb4;
-- Table `G7AgileExperience`.`Grader`
CREATE TABLE IF NOT EXISTS `G7AgileExperience`.`Grader` (
 'idGrader' INT(11) NOT NULL,
PRIMARY KEY ('idGrader'))
ENGINE = InnoDB
DEFAULT CHARACTER SET = utf8mb4;
-- Table `G7AgileExperience`.`Professor`
CREATE TABLE IF NOT EXISTS `G7AgileExperience`.`Professor` (
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`professorID` INT(11) NOT NULL,

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'profName' VARCHAR(45) NULL DEFAULT NULL,
 PRIMARY KEY ('professorID'),
CONSTRAINT 'isA'
  FOREIGN KEY ('professorID')
  REFERENCES `G7AgileExperience`.`Grader` (`idGrader`)
  ON DELETE NO ACTION
  ON UPDATE NO ACTION)
ENGINE = InnoDB
DEFAULT CHARACTER SET = utf8mb4;
-- Table `G7AgileExperience`.`Section`
CREATE TABLE IF NOT EXISTS `G7AgileExperience`. `Section` (
 `sectionID` INT(11) NOT NULL,
 `classID` INT(11) NOT NULL,
 `skillsListID` INT(11) NOT NULL,
 'professorID' INT(11) NULL DEFAULT NULL,
 PRIMARY KEY ('sectionID', 'classID'),
INDEX 'belongsToClass' ('classID' ASC) VISIBLE,
INDEX 'teaches' ('professorID' ASC) VISIBLE,
CONSTRAINT `belongsToClass`
  FOREIGN KEY ('classID')
  REFERENCES `G7AgileExperience`.`Class` (`idClass`)
  ON DELETE NO ACTION
  ON UPDATE NO ACTION,
 CONSTRAINT `teaches`
  FOREIGN KEY ('professorID')
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REFERENCES `G7AgileExperience`.`Professor` (`professorID`)
  ON DELETE NO ACTION
  ON UPDATE NO ACTION)
ENGINE = InnoDB
DEFAULT CHARACTER SET = utf8mb4;
-- Table `G7AgileExperience`.`NoteSheet`
CREATE TABLE IF NOT EXISTS `G7AgileExperience`.`NoteSheet` (
`noteSheetID` INT(11) NOT NULL,
PRIMARY KEY (`noteSheetID`))
ENGINE = InnoDB
DEFAULT CHARACTER SET = utf8mb4;
-- Table `G7AgileExperience`. `GradeType`
CREATE TABLE IF NOT EXISTS `G7AgileExperience`.`GradeType` (
'ID' INT(11) NOT NULL,
`TypeOfGrade` VARCHAR(20) NOT NULL,
PRIMARY KEY ('ID'))
ENGINE = InnoDB
DEFAULT CHARACTER SET = utf8mb4;
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-- Table `G7AgileExperience`.`Lab`
CREATE TABLE IF NOT EXISTS `G7AgileExperience`.`Lab` (
 'idLab' INT(11) NOT NULL,
 `labName` VARCHAR(45) NULL DEFAULT NULL,
 `GradeType` INT(11) NULL DEFAULT NULL,
 `maxScore` VARCHAR(11) NULL DEFAULT '100',
 'sectionID' INT(11) NOT NULL,
 `classID` INT(11) NOT NULL,
 'noteSheetID' INT(11) NULL DEFAULT NULL,
 PRIMARY KEY ('idLab', 'sectionID', 'classID'),
INDEX 'belongsToClassSection' ('sectionID' ASC, 'classID' ASC) VISIBLE,
INDEX 'containsA' ('noteSheetID' ASC) VISIBLE,
INDEX `isOfGradeType` (`GradeType` ASC) VISIBLE,
CONSTRAINT `belongsToClassSection`
  FOREIGN KEY (`sectionID` , `classID`)
  REFERENCES `G7AgileExperience`.`Section` (`sectionID`, `classID`)
  ON DELETE NO ACTION
  ON UPDATE NO ACTION,
 CONSTRAINT `containsA`
  FOREIGN KEY ('noteSheetID')
  REFERENCES `G7AgileExperience`.`NoteSheet` (`noteSheetID`)
  ON DELETE NO ACTION
  ON UPDATE NO ACTION,
 CONSTRAINT `isOfGradeType`
  FOREIGN KEY ('GradeType')
  REFERENCES `G7AgileExperience`.`GradeType` (`ID`)
  ON DELETE NO ACTION
  ON UPDATE NO ACTION)
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ENGINE = InnoDB
DEFAULT CHARACTER SET = utf8mb4;
-- Table `G7AgileExperience`.`Grade`
CREATE TABLE IF NOT EXISTS `G7AgileExperience`.`Grade` (
 'gradeID' INT(11) NOT NULL,
 `assignedValue` VARCHAR(11) NOT NULL COMMENT 'A letter score/rubric score with max 100 as
default (3 digits) or complete/incomplete',
 'maxScore' VARCHAR(11) NULL DEFAULT '100',
 'labID' INT(11) NOT NULL,
 `classID` INT(11) NOT NULL,
 `sectionID` INT(11) NOT NULL,
 `studentID` INT(11) NOT NULL,
 `typeOfGrade` INT(11) NOT NULL,
 'graderID' INT(11) NOT NULL,
 PRIMARY KEY ('gradeID'),
INDEX 'for' ('classID' ASC) VISIBLE,
INDEX 'belongsTo' ('studentID' ASC) VISIBLE,
 INDEX 'gradedForLab' ('labID' ASC) VISIBLE,
INDEX 'gradedForSection' ('sectionID' ASC, 'classID' ASC) VISIBLE,
 INDEX 'typeOfGrade' ('typeOfGrade' ASC) VISIBLE,
 INDEX `gradedByGrader` (`graderID` ASC) VISIBLE,
 CONSTRAINT `belongsTo`
  FOREIGN KEY ('studentID')
  REFERENCES `G7AgileExperience`.`Student` (`idStudent`)
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ON DELETE NO ACTION

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ON UPDATE NO ACTION,
CONSTRAINT `gradedByGrader`
 FOREIGN KEY ('graderID')
 REFERENCES `G7AgileExperience`.`Grader` (`idGrader`)
  ON DELETE NO ACTION
 ON UPDATE NO ACTION,
CONSTRAINT `gradedForLab`
 FOREIGN KEY ('labID')
 REFERENCES `G7AgileExperience`.`Lab` (`idLab`)
 ON DELETE NO ACTION
 ON UPDATE NO ACTION,
CONSTRAINT `gradedForSection`
 FOREIGN KEY ('sectionID', 'classID')
 REFERENCES `G7AgileExperience`.`Lab` (`sectionID`, `classID`)
 ON DELETE NO ACTION
 ON UPDATE NO ACTION,
 CONSTRAINT 'typeOfGrade'
 FOREIGN KEY ('typeOfGrade')
 REFERENCES `G7AgileExperience`.`GradeType` (`ID`)
 ON DELETE NO ACTION
 ON UPDATE NO ACTION)
ENGINE = InnoDB
DEFAULT CHARACTER SET = utf8mb4;
-- Table `G7AgileExperience`. `CompleteIncomplete`
CREATE TABLE IF NOT EXISTS `G7AgileExperience`.`CompleteIncomplete` (
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'gradeID' INT(11) NOT NULL,
 `assignedValue` VARCHAR(20) NULL DEFAULT NULL,
 PRIMARY KEY ('gradeID'),
CONSTRAINT `isCompleteOrIncomplete`
  FOREIGN KEY ('gradeID')
  REFERENCES `G7AgileExperience`.`Grade` (`gradeID`)
  ON DELETE NO ACTION
  ON UPDATE NO ACTION)
ENGINE = InnoDB
DEFAULT CHARACTER SET = utf8mb4;
-- Table `G7AgileExperience`.`EnrollsIn`
CREATE TABLE IF NOT EXISTS `G7AgileExperience`.`EnrollsIn` (
 `studentID` INT(11) NOT NULL,
 `sectionID` INT(11) NOT NULL,
 'classID' INT(11) NOT NULL,
 PRIMARY KEY ('studentID', 'sectionID', 'classID'),
INDEX 'forClass' ('classID' ASC) VISIBLE,
CONSTRAINT 'enrolledin'
  FOREIGN KEY ('studentID')
  REFERENCES `G7AgileExperience`.`Student` ('idStudent')
  ON DELETE NO ACTION
  ON UPDATE NO ACTION,
CONSTRAINT `forClass`
  FOREIGN KEY ('classID')
  REFERENCES `G7AgileExperience`.`Section` (`classID`)
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ON DELETE NO ACTION
  ON UPDATE NO ACTION)
ENGINE = InnoDB
DEFAULT CHARACTER SET = utf8mb4;
-- Table `G7AgileExperience`.`Rubric`
CREATE TABLE IF NOT EXISTS `G7AgileExperience`.`Rubric` (
 'rubricID' INT(11) NOT NULL,
'maxPoints' DECIMAL(5,0) NULL DEFAULT NULL,
PRIMARY KEY (`rubricID`))
ENGINE = InnoDB
DEFAULT CHARACTER SET = utf8mb4;
-- Table `G7AgileExperience`.`GradeByRubric`
CREATE TABLE IF NOT EXISTS `G7AgileExperience`.`GradeByRubric` (
 'gradeID' INT(11) NOT NULL,
 `assignedScore` DECIMAL(5,0) NULL DEFAULT NULL,
 `rubricID` INT(11) NULL DEFAULT NULL,
 PRIMARY KEY ('gradeID'),
INDEX `basedOnRubric` (`rubricID` ASC) VISIBLE,
CONSTRAINT `basedOnRubric`
  FOREIGN KEY ('rubricID')
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REFERENCES `G7AgileExperience`.`Rubric` (`rubricID`)

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ON DELETE NO ACTION
  ON UPDATE NO ACTION,
 CONSTRAINT `gradedByRubric`
  FOREIGN KEY ('gradeID')
  REFERENCES `G7AgileExperience`.`Grade` (`gradeID`)
  ON DELETE NO ACTION
  ON UPDATE NO ACTION)
ENGINE = InnoDB
DEFAULT CHARACTER SET = utf8mb4;
-- Table `G7AgileExperience`.`Log`
CREATE TABLE IF NOT EXISTS `G7AgileExperience`.`Log` (
 `LogID` INT(11) NOT NULL,
 `TimeStamp` DATETIME NOT NULL,
 `gradeID` INT(11) NOT NULL,
 'graderID' INT(11) NOT NULL DEFAULT '7',
 `assignedValue` VARCHAR(11) NULL,
 PRIMARY KEY ('LogID', 'graderID'),
INDEX 'storesGrade' ('gradeID' ASC) VISIBLE,
INDEX `generatedByGraderID` (`graderID` ASC) VISIBLE,
 CONSTRAINT `generatedByGraderID`
  FOREIGN KEY ('graderID')
  REFERENCES `G7AgileExperience`.`Grader` (`idGrader`)
  ON DELETE NO ACTION
  ON UPDATE NO ACTION,
CONSTRAINT `storesGrade`
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FOREIGN KEY ('gradeID')
  REFERENCES `G7AgileExperience`.`Grade` (`gradeID`)
  ON DELETE NO ACTION
  ON UPDATE NO ACTION)
ENGINE = InnoDB
DEFAULT CHARACTER SET = utf8mb4;
-- Table `G7AgileExperience`.`Note`
CREATE TABLE IF NOT EXISTS `G7AgileExperience`.`Note` (
 'noteID' INT(11) NOT NULL,
'noteText' VARCHAR(200) NOT NULL,
 `graderID` INT(11) NOT NULL,
 `noteSheetID` INT(11) NOT NULL,
 PRIMARY KEY ('noteID', 'noteSheetID'),
INDEX 'enters' ('graderID' ASC) VISIBLE,
INDEX `isForNoteSheet` (`noteSheetID` ASC) VISIBLE,
CONSTRAINT 'enters'
  FOREIGN KEY ('graderID')
  REFERENCES `G7AgileExperience`.`Grader` (`idGrader`)
  ON DELETE NO ACTION
  ON UPDATE NO ACTION,
 CONSTRAINT `isForNoteSheet`
  FOREIGN KEY ('noteSheetID')
  REFERENCES `G7AgileExperience`.`NoteSheet` (`noteSheetID`)
  ON DELETE NO ACTION
  ON UPDATE NO ACTION)
```

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ENGINE = InnoDB
DEFAULT CHARACTER SET = utf8mb4;
-- Table `G7AgileExperience`.`RangedScore`
CREATE TABLE IF NOT EXISTS `G7AgileExperience`.`RangedScore` (
 `gradeID` INT(11) NOT NULL,
 `assignedScore` DECIMAL(5,0) NULL DEFAULT NULL,
 `maxScore` VARCHAR(11) NULL DEFAULT '100',
 PRIMARY KEY ('gradeID'),
CONSTRAINT `isRangedScore`
  FOREIGN KEY ('gradeID')
  REFERENCES `G7AgileExperience`.`Grade` (`gradeID`)
  ON DELETE NO ACTION
  ON UPDATE NO ACTION)
ENGINE = InnoDB
DEFAULT CHARACTER SET = utf8mb4;
-- Table `G7AgileExperience`.`RubricCriteria`
CREATE TABLE IF NOT EXISTS `G7AgileExperience`.`RubricCriteria` (
 'ID' INT(11) NOT NULL,
 `rubricID` INT(11) NULL DEFAULT NULL,
 `description` VARCHAR(45) NULL DEFAULT NULL,
 `maxPoints` DECIMAL(5,0) NULL DEFAULT NULL,
```

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PRIMARY KEY ('ID'),
INDEX 'belongsToRubric' ('rubricID' ASC) VISIBLE,
 CONSTRAINT `belongsToRubric`
  FOREIGN KEY ('rubricID')
  REFERENCES `G7AgileExperience`.`Rubric` (`rubricID`)
  ON DELETE NO ACTION
  ON UPDATE NO ACTION)
ENGINE = InnoDB
DEFAULT CHARACTER SET = utf8mb4;
-- Table `G7AgileExperience`.`SI`
CREATE TABLE IF NOT EXISTS `G7AgileExperience`.`SI` (
 'siID' INT(11) NOT NULL,
 `name` VARCHAR(45) NOT NULL,
 PRIMARY KEY ('siID'),
CONSTRAINT 'issA'
  FOREIGN KEY ('siID')
  REFERENCES `G7AgileExperience`.`Grader` (`idGrader`)
  ON DELETE NO ACTION
  ON UPDATE NO ACTION)
ENGINE = InnoDB
DEFAULT CHARACTER SET = utf8mb4;
-- Table `G7AgileExperience`.`SkillList`
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CREATE TABLE IF NOT EXISTS `G7AgileExperience`.`SkillList` (
 `skillListID` INT(11) NOT NULL,
 `siID` INT(11) NULL DEFAULT NULL,
PRIMARY KEY (`skillListID`))
ENGINE = InnoDB
DEFAULT CHARACTER SET = utf8mb4;
-- Table `G7AgileExperience`.`Skill`
CREATE TABLE IF NOT EXISTS `G7AgileExperience`. `Skill` (
'skillID' INT(11) NOT NULL,
 `description` VARCHAR(45) NULL DEFAULT NULL,
 `siID` INT(11) NULL DEFAULT NULL,
 `skillListID` INT(11) NULL DEFAULT NULL,
 `isLearned` INT(1) NOT NULL DEFAULT '0',
PRIMARY KEY ('skillD'),
INDEX 'isPartOf' ('skillListID' ASC) VISIBLE,
INDEX 'enteredBy' ('siID' ASC) VISIBLE,
CONSTRAINT `enteredBy`
  FOREIGN KEY ('siID')
  REFERENCES `G7AgileExperience`.`SI` (`siID`)
  ON DELETE NO ACTION
  ON UPDATE NO ACTION,
CONSTRAINT `isPartOf`
  FOREIGN KEY ('skillListID')
  REFERENCES `G7AgileExperience`.`SkillList` (`skillListID`)
```

```
ON DELETE NO ACTION
 ON UPDATE NO ACTION)
ENGINE = InnoDB
DEFAULT CHARACTER SET = utf8mb4;
-- Table `G7AgileExperience`.`ViewsNoteSheet`
CREATE TABLE IF NOT EXISTS `G7AgileExperience`.`ViewsNoteSheet` (
 'graderID' INT(11) NOT NULL,
 'noteSheetID' INT(11) NOT NULL,
 PRIMARY KEY ('graderID', 'noteSheetID'),
INDEX 'ReferencesA' ('noteSheetID' ASC) VISIBLE,
CONSTRAINT 'ReferencesA'
 FOREIGN KEY ('noteSheetID')
 REFERENCES `G7AgileExperience`.`NoteSheet` (`noteSheetID`)
  ON DELETE NO ACTION
 ON UPDATE NO ACTION,
 CONSTRAINT `toBeViewedBy`
 FOREIGN KEY ('graderID')
 REFERENCES `G7AgileExperience`.`Grader` (`idGrader`)
  ON DELETE NO ACTION
 ON UPDATE NO ACTION)
ENGINE = InnoDB
DEFAULT CHARACTER SET = utf8mb4
COMMENT = 'New relation generated by the Views relationship between Grader and Notesheet since
M:N relationship';
```

```
-- Table `G7AgileExperience`.`ViewsSkillList`
CREATE TABLE IF NOT EXISTS `G7AgileExperience`. `ViewsSkillList` (
`siID` INT(11) NOT NULL,
 `skillsListID` INT(11) NOT NULL,
 PRIMARY KEY ('siID', 'skillsListID'),
 INDEX 'References' ('skillsListID' ASC) VISIBLE,
 CONSTRAINT `IsViewedBy`
  FOREIGN KEY ('siID')
  REFERENCES `G7AgileExperience`.`SI` (`siID`)
  ON DELETE NO ACTION
  ON UPDATE NO ACTION,
 CONSTRAINT `References`
  FOREIGN KEY ('skillsListID')
  REFERENCES `G7AgileExperience`.`SkillList` (`skillListID`)
  ON DELETE NO ACTION
  ON UPDATE NO ACTION)
ENGINE = InnoDB
DEFAULT CHARACTER SET = utf8mb4;
SET SQL_MODE=@OLD_SQL_MODE;
SET FOREIGN_KEY_CHECKS=@OLD_FOREIGN_KEY_CHECKS;
SET UNIQUE_CHECKS=@OLD_UNIQUE_CHECKS;
```