

-- 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 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`))

ENGINE = InnoDB

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` (

 `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;

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-- Table `G7AgileExperience`.`Section`
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```

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`)

```

```
REFERENCES `G7AgileExperience`.`Professor` (`professorID`)
ON DELETE NO ACTION
ON UPDATE NO ACTION)
ENGINE = InnoDB
DEFAULT CHARACTER SET = utf8mb4;
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```
-- 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 `forSection` (`sectionID` ASC) VISIBLE,
  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`)
    ON DELETE NO ACTION
    ON UPDATE NO ACTION,
  CONSTRAINT `forSection`
    FOREIGN KEY (`sectionID`)
```

```
REFERENCES `G7AgileExperience`.`Section` (`sectionID`)
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`
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```

```
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;
```

-- 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)
```

ENGINE = InnoDB

DEFAULT CHARACTER SET = utf8mb4;

```
-----  
-- Table `G7AgileExperience`.`Grade`  
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```

```
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`)  
  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;

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-- Table `G7AgileExperience`.`Log`
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```

CREATE TABLE IF NOT EXISTS `G7AgileExperience`.`Log` (

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`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 DEFAULT '100',
PRIMARY KEY (`LogID`),
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`
    FOREIGN KEY (`gradeID`)
    REFERENCES `G7AgileExperience`.`Grade` (`gradeID`)
    ON DELETE NO ACTION
    ON UPDATE NO ACTION)
ENGINE = InnoDB
DEFAULT CHARACTER SET = utf8mb4;

```

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-----
-- Table `G7AgileExperience`.`Note`
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```

CREATE TABLE IF NOT EXISTS `G7AgileExperience`.`Note` (
  `noteID` INT(11) NOT NULL,
  `noteText` VARCHAR(300) NOT NULL,
  `graderID` INT(11) NOT NULL,

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`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)
ENGINE = InnoDB
DEFAULT CHARACTER SET = utf8mb4;

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-----
-- Table `G7AgileExperience`.`Rubric`
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```

CREATE TABLE IF NOT EXISTS `G7AgileExperience`.`Rubric` (
  `rubricID` INT(11) NOT NULL,
  `maxPoints` DECIMAL(5,0) NULL DEFAULT NULL,
  `labID` INT(11) NULL DEFAULT '16',
  PRIMARY KEY (`rubricID`),
  INDEX `forLab` (`labID` ASC) VISIBLE,
  CONSTRAINT `forLab`
    FOREIGN KEY (`labID`)

```

```

REFERENCES `G7AgileExperience`.`Lab` (`idLab`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB

DEFAULT CHARACTER SET = utf8mb4;

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-- Table `G7AgileExperience`.`RubricCriteria`
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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,
  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;

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-- Table `G7AgileExperience`.`SI`
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```

CREATE TABLE IF NOT EXISTS `G7AgileExperience`.`Sl` (
  `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`
```

```

CREATE TABLE IF NOT EXISTS `G7AgileExperience`.`SkillList` (
  `skillListID` INT(11) NOT 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,

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```
`siID` INT(11) NULL DEFAULT NULL,  
`skillListID` INT(11) NULL DEFAULT NULL,  
`isLearned` INT(1) NOT NULL DEFAULT '0',  
PRIMARY KEY (`skillID`),  
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;
```

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