```
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';
- -----
-- Schema student_db
CREATE SCHEMA IF NOT EXISTS 'student_db' DEFAULT CHARACTER SET utf8;
USE `student_db`;
-- Table `student_db`.`students`
DROP TABLE IF EXISTS 'student db'.'students';
CREATE TABLE IF NOT EXISTS `student_db`.`students` (
 `student_id` INT NOT NULL AUTO_INCREMENT,
 `student_fname` VARCHAR(45) NOT NULL,
 `student_Iname` VARCHAR(45) NOT NULL,
 `student_dob` DATE NOT NULL,
 `student_email` VARCHAR(45) NULL,
 `student_tel` VARCHAR(45) NULL,
 `student_address` VARCHAR(45) NULL,
PRIMARY KEY (`student_id`))
ENGINE = InnoDB;
CREATE UNIQUE INDEX 'student_id_UNIQUE' ON 'student_db'.'students' ('student_id' ASC);
-- Table `student_db`.`courses`
```

```
DROP TABLE IF EXISTS 'student_db'.'courses';
CREATE TABLE IF NOT EXISTS 'student_db'.'courses' (
`course_code` INT NOT NULL,
 `course_name` VARCHAR(45) NOT NULL,
 `course_credithours` VARCHAR(45) NULL,
 `description` TEXT NULL,
PRIMARY KEY ('course_code'))
ENGINE = InnoDB;
CREATE UNIQUE INDEX 'course_code_UNIQUE' ON 'student_db'.'courses' ('course_code' ASC);
-- Table `student_db`.`professors`
DROP TABLE IF EXISTS `student_db`.`professors`;
CREATE TABLE IF NOT EXISTS `student_db`.`professors` (
`professor_id` INT NOT NULL AUTO_INCREMENT,
 `professor_name` VARCHAR(45) NOT NULL,
 `professor_qualification` VARCHAR(45) NULL,
PRIMARY KEY (`professor_id`))
ENGINE = InnoDB;
CREATE UNIQUE INDEX 'professor_id_UNIQUE' ON 'student_db'.'professors' ('professor_id' ASC);
-- Table `student_db`.`semester`
```

```
DROP TABLE IF EXISTS `student_db`.`semester`;
CREATE TABLE IF NOT EXISTS 'student_db'.'semester' (
`semester_season` VARCHAR(45) NOT NULL,
 `semester_year` VARCHAR(45) NOT NULL,
 PRIMARY KEY ('semester season', 'semester year'))
ENGINE = InnoDB;
-- Table `student_db`.`student_course`
DROP TABLE IF EXISTS 'student db'. 'student course';
CREATE TABLE IF NOT EXISTS 'student_db'.'student_course' (
 `s_id` INT NOT NULL,
 `c_id` INT NOT NULL,
 `semester_season` VARCHAR(45) NULL,
 `semester_year` VARCHAR(45) NULL,
 'grade' INT NULL,
 `students_student_id` INT NOT NULL,
 `courses_course_code` INT NOT NULL,
 `semester_semester_season` VARCHAR(45) NOT NULL,
 `semester_semester_year` VARCHAR(45) NOT NULL,
 `semester_semester_season1` VARCHAR(45) NOT NULL,
 `semester_semester_year1` VARCHAR(45) NOT NULL,
 PRIMARY KEY ('students student id', 'courses course code', 'semester semester season',
`semester_semester_year`, `semester_semester_season1`, `semester_semester_year1`),
CONSTRAINT `fk_student_course_students1`
  FOREIGN KEY ('students_student_id')
```

```
REFERENCES `student_db`.`students` (`student_id`)
  ON DELETE NO ACTION
 ON UPDATE NO ACTION,
 CONSTRAINT `fk_student_course_courses1`
  FOREIGN KEY ('courses course code')
  REFERENCES `student_db`.`courses` (`course_code`)
  ON DELETE NO ACTION
  ON UPDATE NO ACTION,
 CONSTRAINT 'fk student course semester1'
  FOREIGN KEY ('semester_semester_season', 'semester_semester_year')
  REFERENCES `student_db`.`semester` (`semester_season`, `semester_year`)
  ON DELETE NO ACTION
  ON UPDATE NO ACTION,
 CONSTRAINT `fk student course semester2`
  FOREIGN KEY ('semester semester season1', 'semester semester year1')
  REFERENCES 'student db'.'semester' ('semester season', 'semester year')
  ON DELETE NO ACTION
  ON UPDATE NO ACTION)
ENGINE = InnoDB;
CREATE INDEX `fk_student_course courses1_idx` ON `student_db`.`student_course`
(`courses_course_code` ASC);
CREATE INDEX `fk_student_course_semester1_idx` ON `student_db`.`student_course`
('semester semester season' ASC, 'semester semester year' ASC);
CREATE INDEX 'fk student course semester2 idx' ON 'student db'.'student course'
(`semester_semester_season1` ASC, `semester_semester_year1` ASC);
-- Table `student db`. `semester course`
```

```
DROP TABLE IF EXISTS `student_db`.`semester_course`;
CREATE TABLE IF NOT EXISTS 'student_db'.'semester_course' (
`c id` INT NULL,
 `prof_id` INT NULL,
 `semester_season` VARCHAR(45) NULL,
 `semester_year` VARCHAR(45) NULL,
 `semester_semester_season` VARCHAR(45) NOT NULL,
 `semester_semester_year` VARCHAR(45) NOT NULL,
 `semester_semester_season1` VARCHAR(45) NOT NULL,
 `semester_semester_year1` VARCHAR(45) NOT NULL,
 `courses_course_code` INT NOT NULL,
 'professors professor id' INT NOT NULL,
 PRIMARY KEY ('semester semester season', 'semester semester year',
`semester_semester_season1`, `semester_semester_year1`, `courses_course_code`,
`professors_professor_id`),
CONSTRAINT `fk_semester_course_semester1`
  FOREIGN KEY ('semester_semester_season', 'semester_semester_year')
  REFERENCES 'student_db'.'semester' ('semester_season', 'semester_year')
  ON DELETE NO ACTION
  ON UPDATE NO ACTION,
 CONSTRAINT `fk_semester_course_semester2`
  FOREIGN KEY ('semester semester season1', 'semester semester year1')
  REFERENCES 'student_db'.'semester' ('semester_season', 'semester_year')
  ON DELETE NO ACTION
  ON UPDATE NO ACTION,
 CONSTRAINT 'fk semester course courses1'
 FOREIGN KEY ('courses_course_code')
  REFERENCES `student_db`.`courses` (`course_code`)
```

ON DELETE NO ACTION

```
ON UPDATE NO ACTION,
 CONSTRAINT `fk_semester_course_professors1`
  FOREIGN KEY (`professors_professor_id`)
  REFERENCES `student_db`.`professors` (`professor_id`)
  ON DELETE NO ACTION
  ON UPDATE NO ACTION)
ENGINE = InnoDB;
CREATE INDEX `fk_semester_course_semester2_idx` ON `student_db`.`semester_course`
(`semester_semester_season1` ASC, `semester_semester_year1` ASC);
CREATE INDEX `fk_semester_course_courses1_idx` ON `student_db`.`semester_course`
('courses course code' ASC);
CREATE INDEX 'fk semester course professors1 idx' ON 'student db'.'semester course'
(`professors_professor_id` ASC);
SET SQL_MODE=@OLD_SQL_MODE;
SET FOREIGN_KEY_CHECKS=@OLD_FOREIGN_KEY_CHECKS;
SET UNIQUE_CHECKS=@OLD_UNIQUE_CHECKS;
```