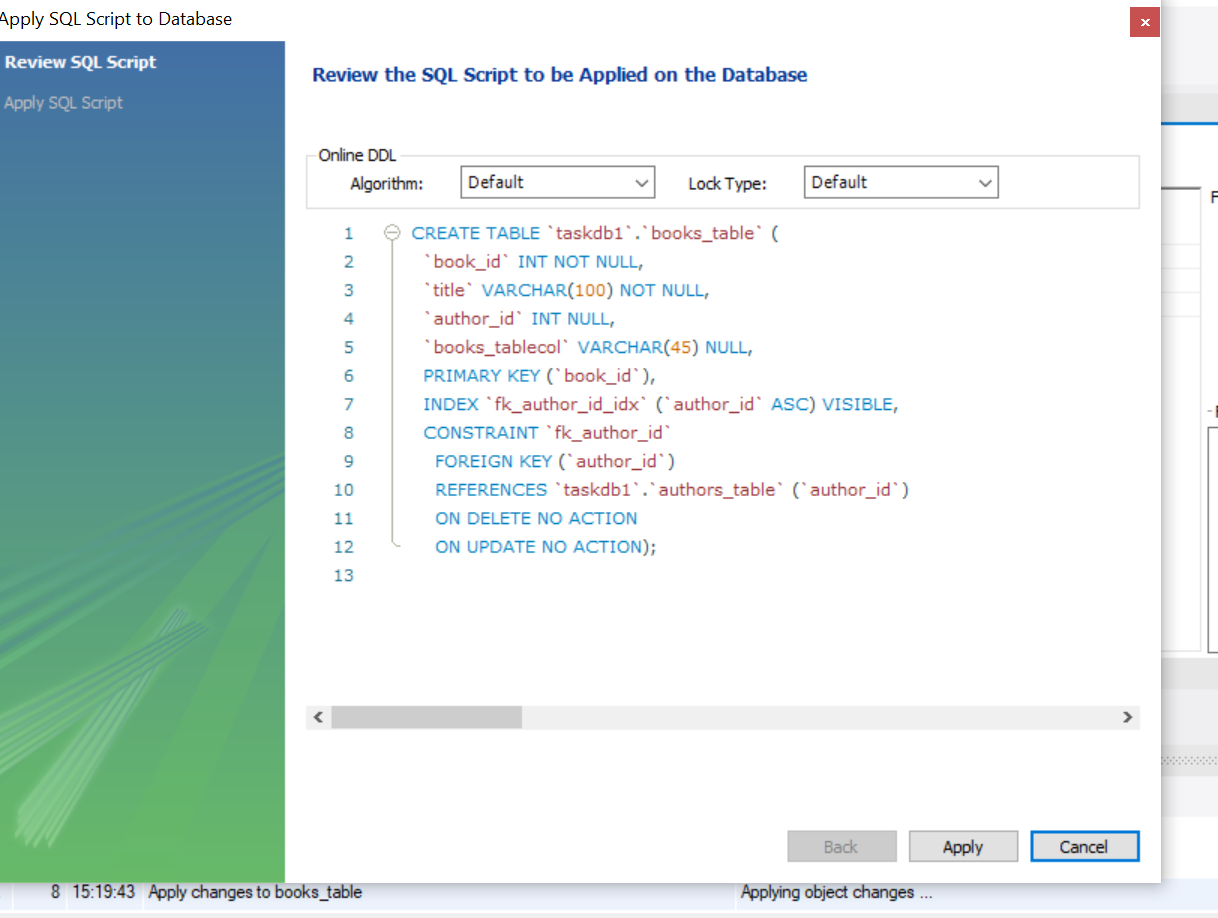
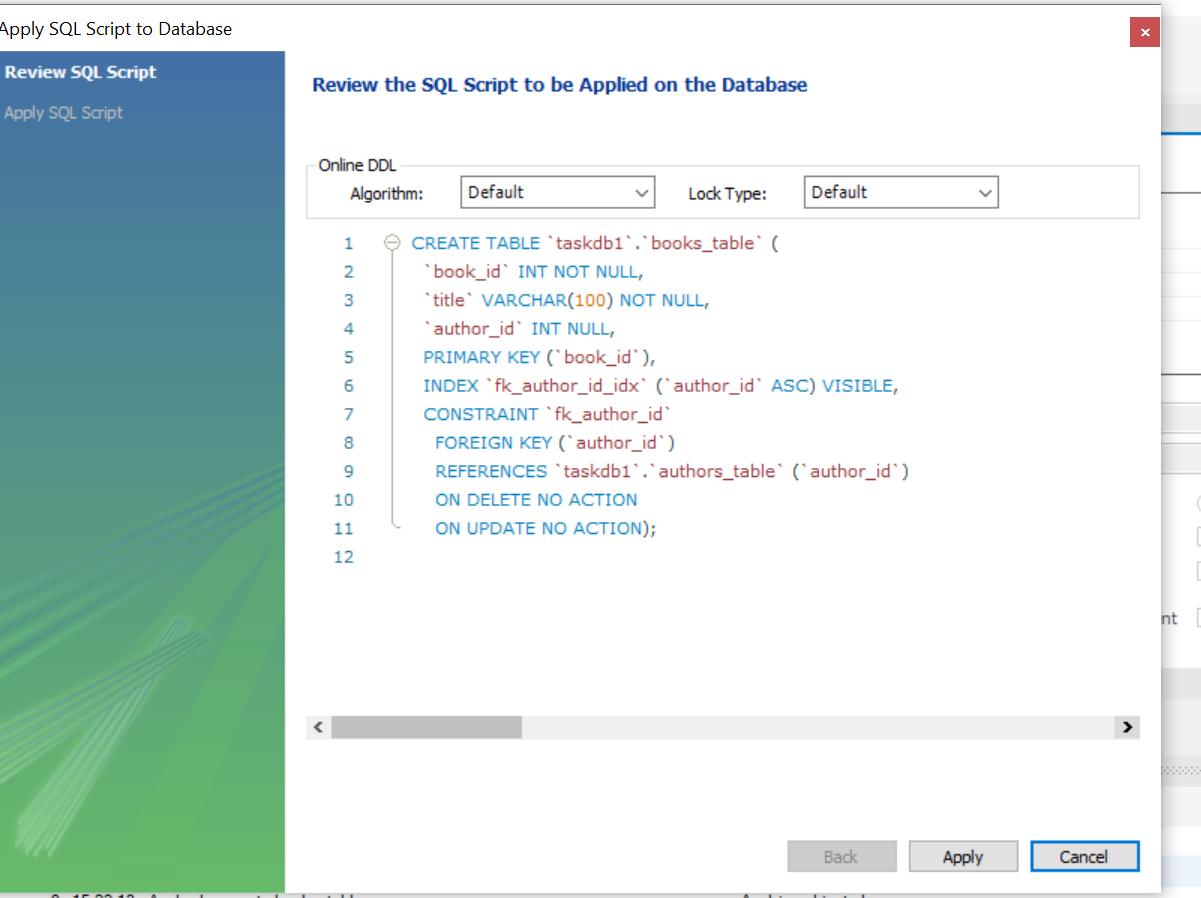


BOOKS TABLE





CREATE TABLE `taskdb1`.`books\_table` (

`book\_id` INT NOT NULL,

`title` VARCHAR(100) NOT NULL,

`author\_id` INT NULL,

PRIMARY KEY (`book\_id`),

INDEX `fk\_author\_id\_idx` (`author\_id` ASC) VISIBLE,

CONSTRAINT `fk\_author\_id`

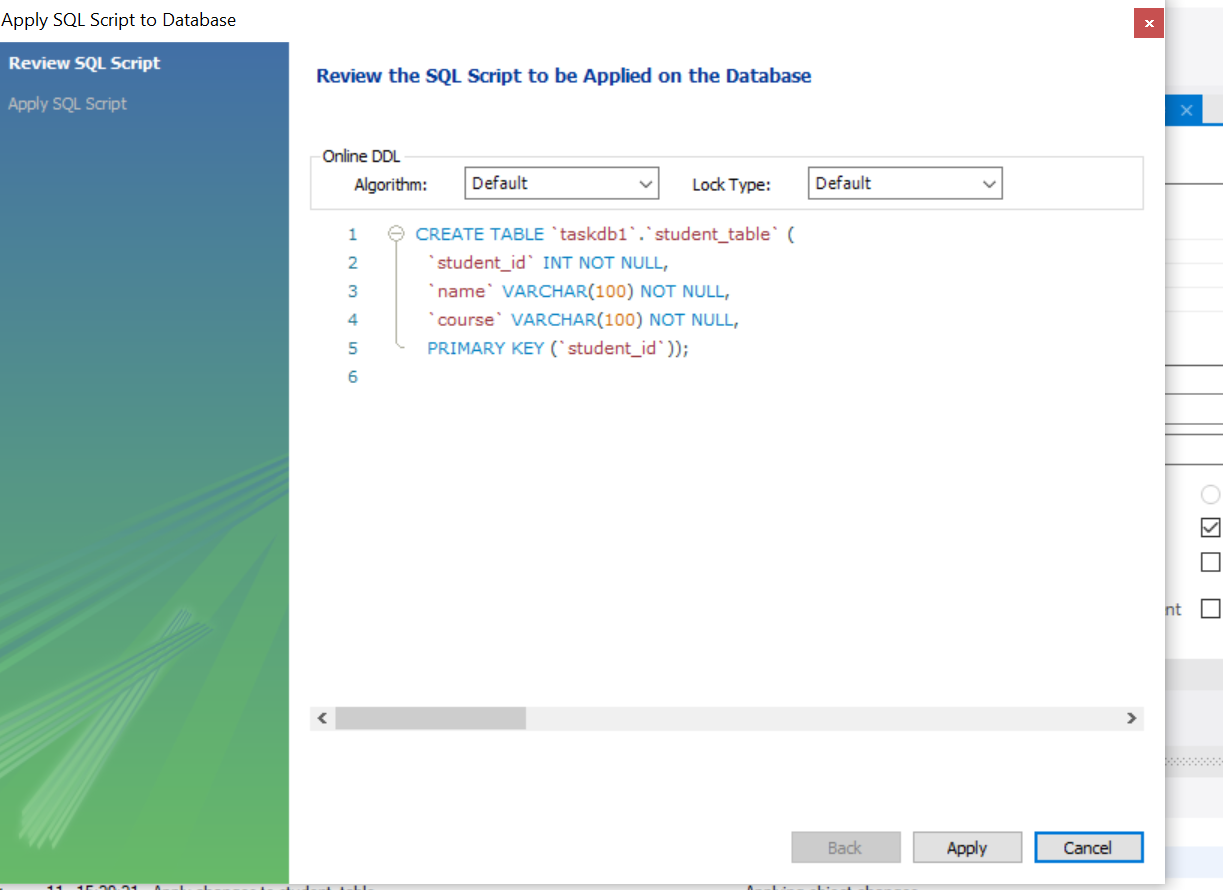
FOREIGN KEY (`author\_id`)

REFERENCES `taskdb1`.`authors\_table` (`author\_id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION);

STUDENT TABLE



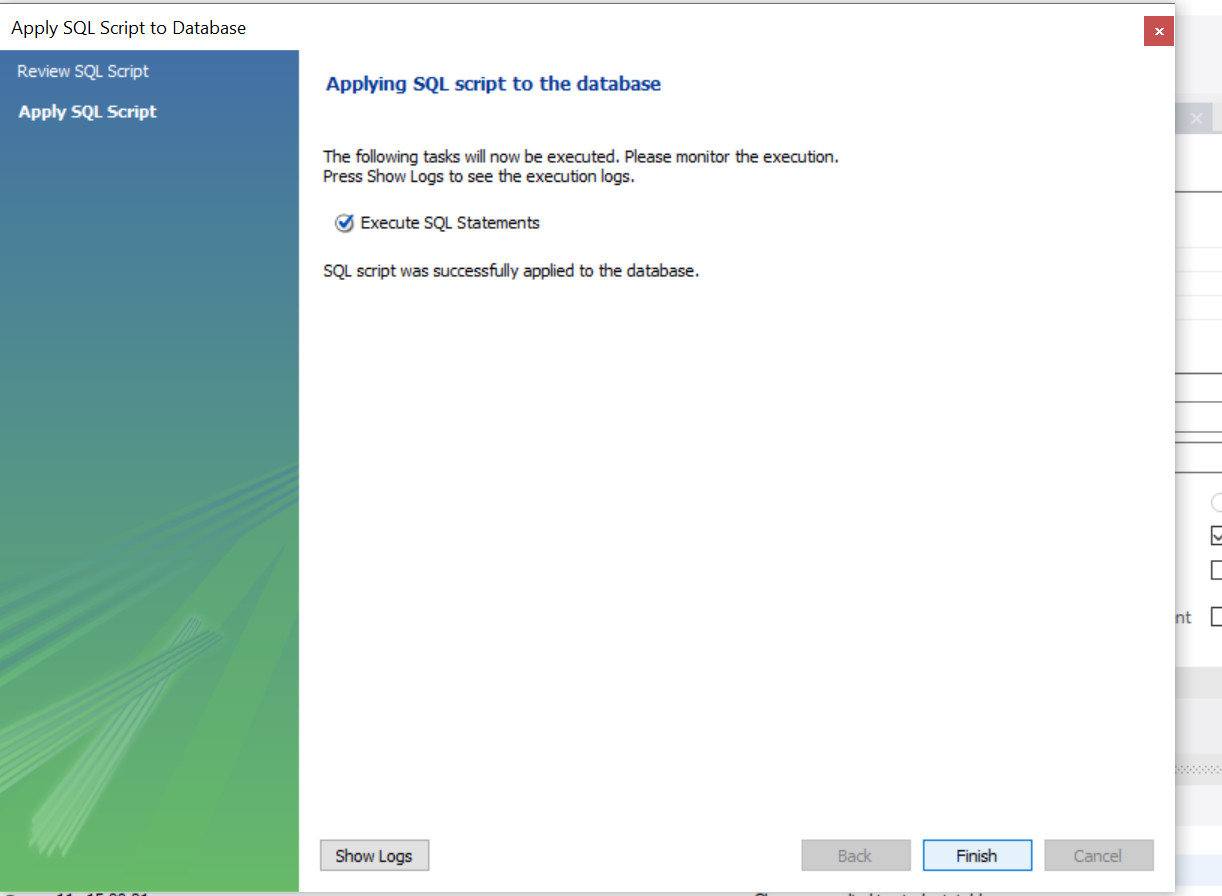
CREATE TABLE `taskdb1`.`student\_table` (

`student\_id` INT NOT NULL,

`name` VARCHAR(100) NOT NULL,

`course` VARCHAR(100) NOT NULL,

PRIMARY KEY (`student\_id`));



ISSUE TABLE

CREATE TABLE `taskdb1`.`issue\_table` (

`issue\_id` INT NOT NULL,

`book\_id` INT NULL,

`student\_id` INT NULL,

`issue\_date` DATE NULL,

`return\_date` DATE NULL,

PRIMARY KEY (`issue\_id`),

INDEX `book\_id\_idx` (`book\_id` ASC) VISIBLE,

INDEX `fk\_student\_id\_idx` (`student\_id` ASC) VISIBLE,

CONSTRAINT `fk\_book\_id`

FOREIGN KEY (`book\_id`)

REFERENCES `taskdb1`.`books\_table` (`book\_id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION,

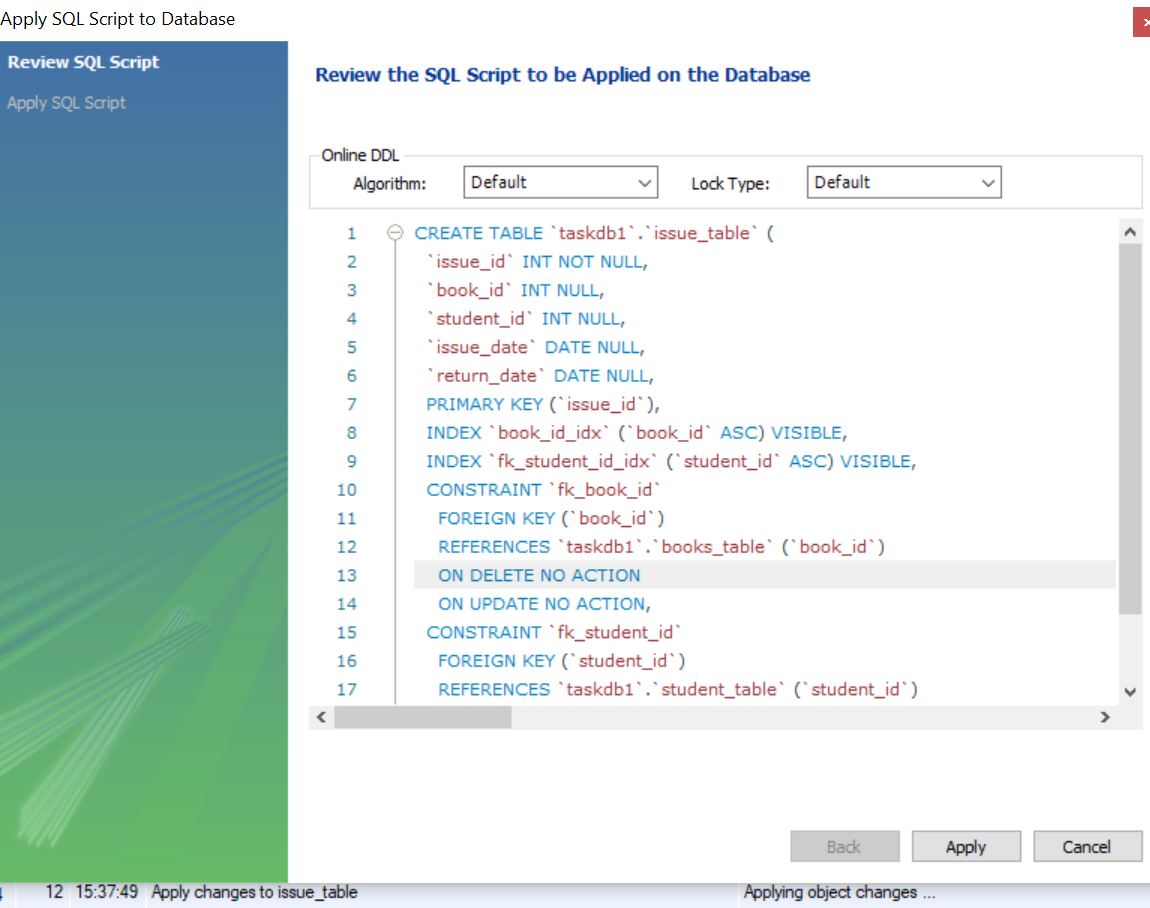
CONSTRAINT `fk\_student\_id`

FOREIGN KEY (`student\_id`)

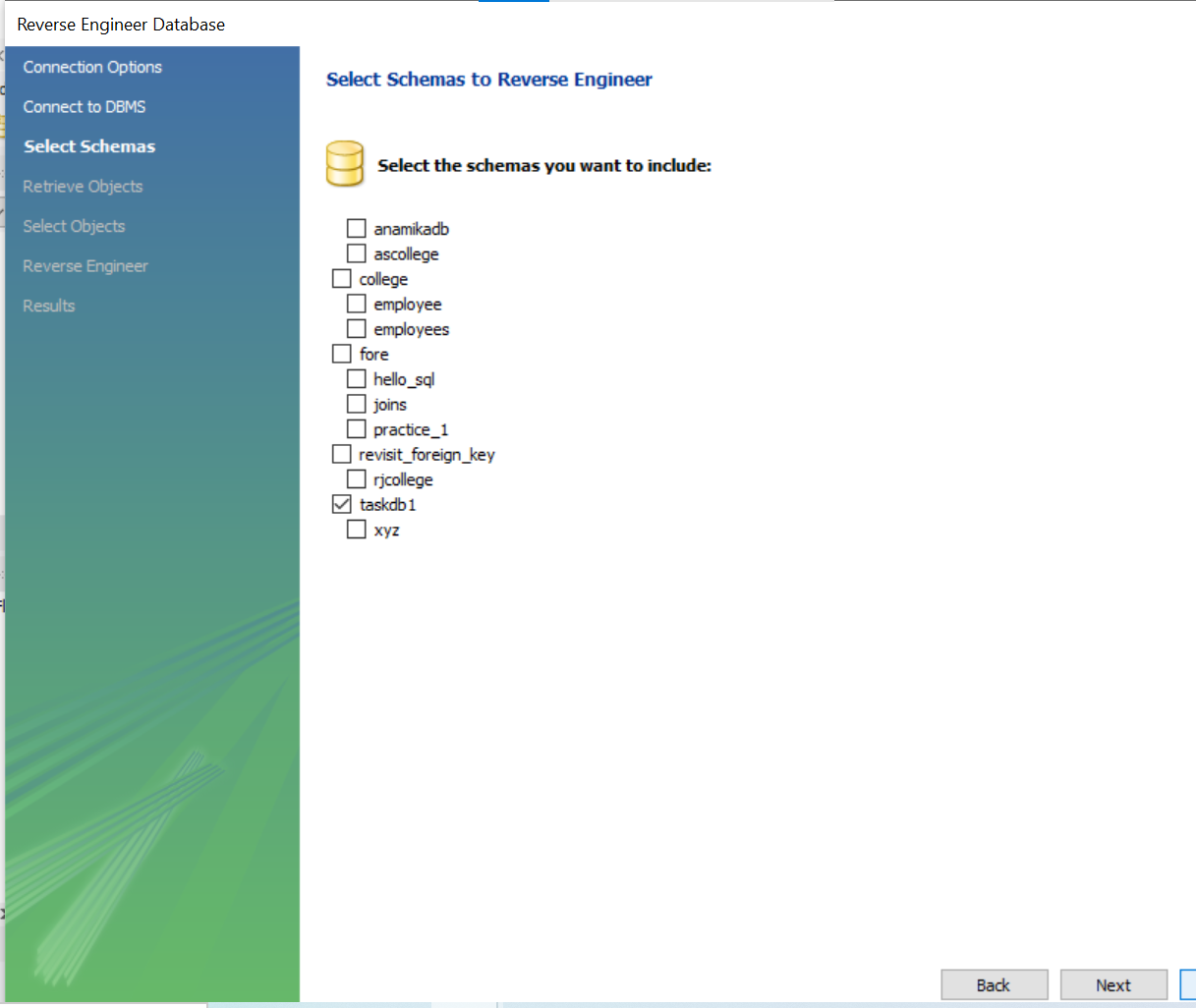
REFERENCES `taskdb1`.`student\_table` (`student\_id`)

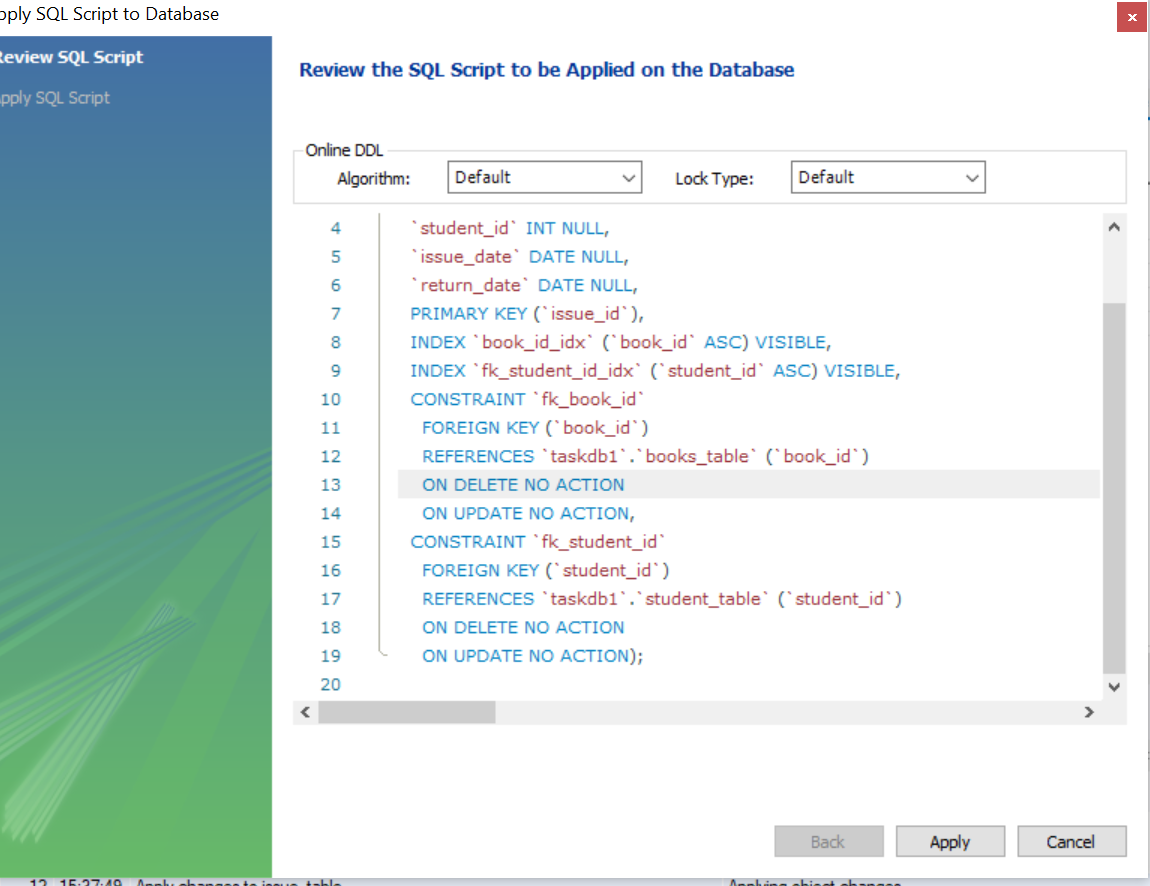
ON DELETE NO ACTION

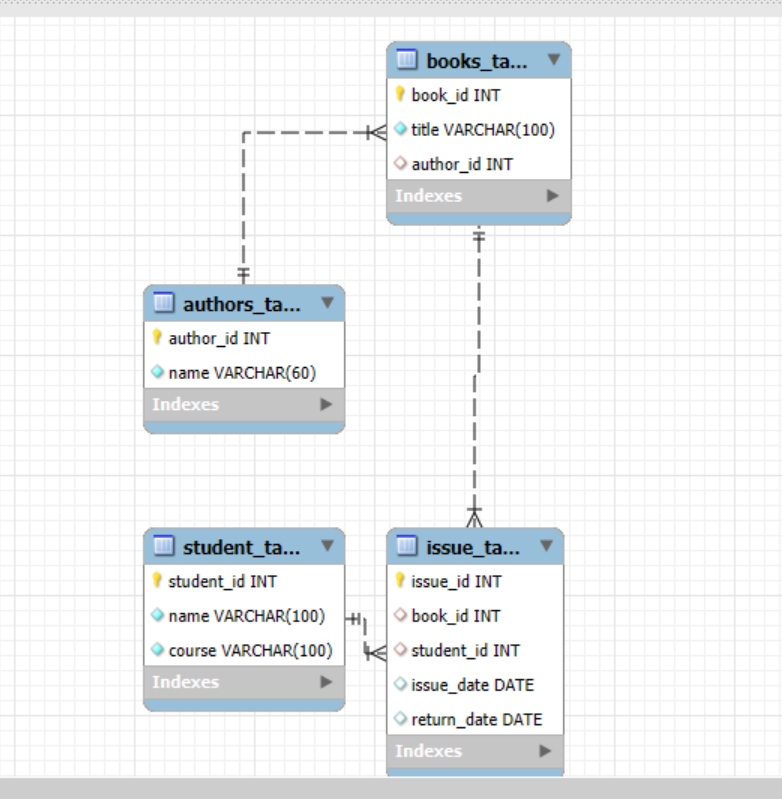
ON UPDATE NO ACTION);

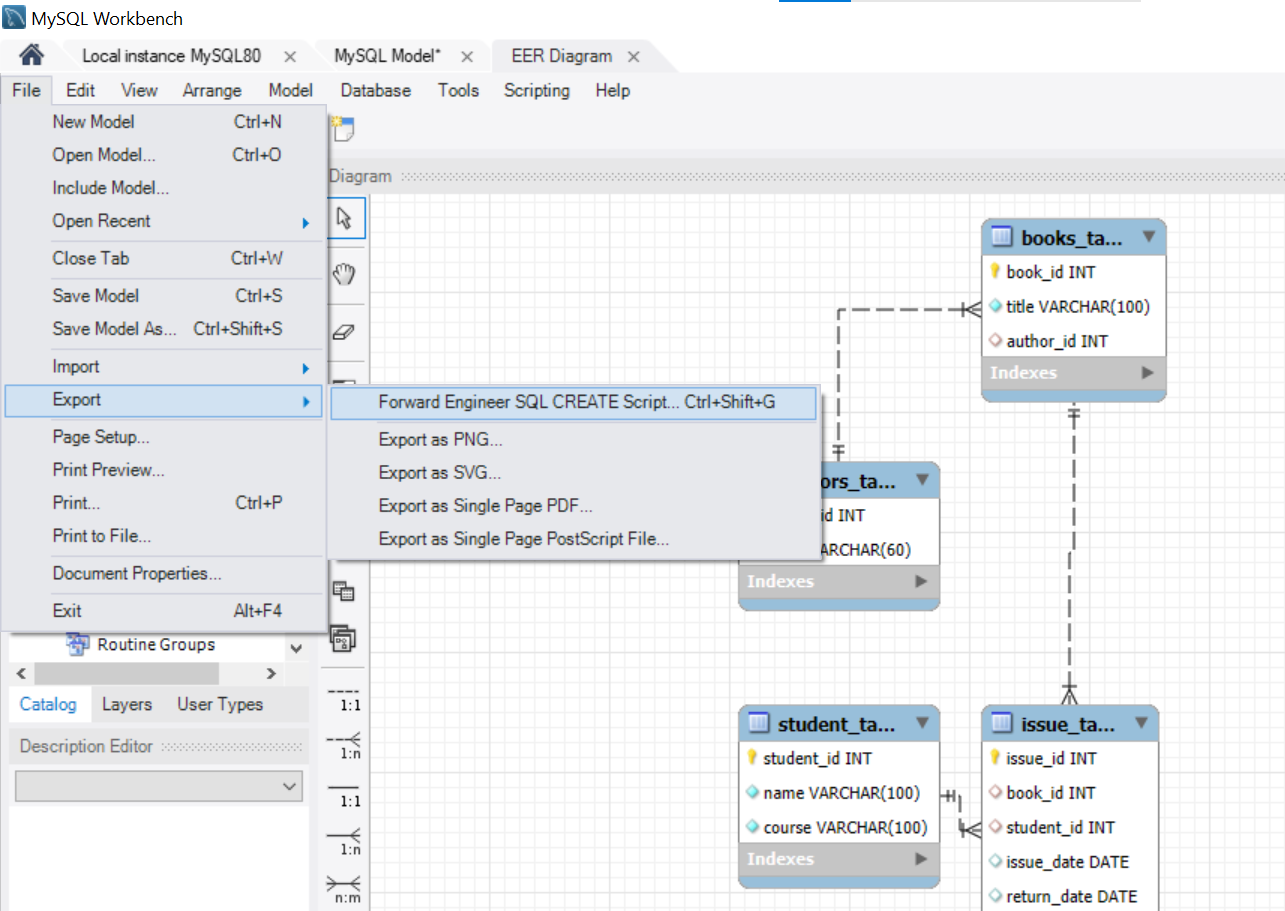


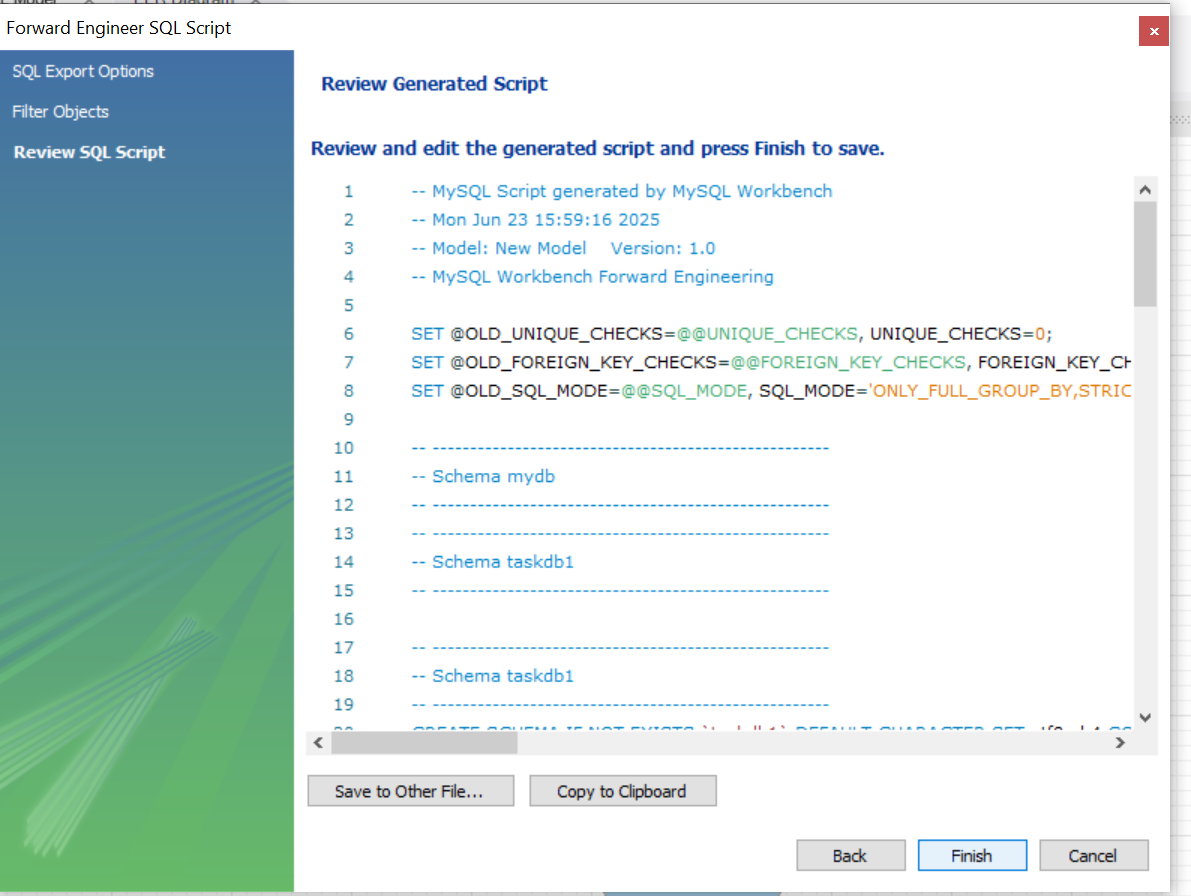
CREATE ER DIAGRAM













-- MySQL Script generated by MySQL Workbench

-- Mon Jun 23 15:59:16 2025

-- 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;

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 taskdb1

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

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

-- Schema taskdb1

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

CREATE SCHEMA IF NOT EXISTS `taskdb1` DEFAULT CHARACTER SET utf8mb4 COLLATE utf8mb4\_0900\_ai\_ci ;

USE `taskdb1` ;

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

-- Table `taskdb1`.`authors\_table`

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

CREATE TABLE IF NOT EXISTS `taskdb1`.`authors\_table` (

`author\_id` INT NOT NULL,

`name` VARCHAR(60) NOT NULL,

PRIMARY KEY (`author\_id`))

ENGINE = InnoDB

DEFAULT CHARACTER SET = utf8mb4

COLLATE = utf8mb4\_0900\_ai\_ci;

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

-- Table `taskdb1`.`books\_table`

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

CREATE TABLE IF NOT EXISTS `taskdb1`.`books\_table` (

`book\_id` INT NOT NULL,

`title` VARCHAR(100) NOT NULL,

`author\_id` INT NULL DEFAULT NULL,

PRIMARY KEY (`book\_id`),

INDEX `fk\_author\_id\_idx` (`author\_id` ASC) VISIBLE,

CONSTRAINT `fk\_author\_id`

FOREIGN KEY (`author\_id`)

REFERENCES `taskdb1`.`authors\_table` (`author\_id`))

ENGINE = InnoDB

DEFAULT CHARACTER SET = utf8mb4

COLLATE = utf8mb4\_0900\_ai\_ci;

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

-- Table `taskdb1`.`student\_table`

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

CREATE TABLE IF NOT EXISTS `taskdb1`.`student\_table` (

`student\_id` INT NOT NULL,

`name` VARCHAR(100) NOT NULL,

`course` VARCHAR(100) NOT NULL,

PRIMARY KEY (`student\_id`))

ENGINE = InnoDB

DEFAULT CHARACTER SET = utf8mb4

COLLATE = utf8mb4\_0900\_ai\_ci;

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

-- Table `taskdb1`.`issue\_table`

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

CREATE TABLE IF NOT EXISTS `taskdb1`.`issue\_table` (

`issue\_id` INT NOT NULL,

`book\_id` INT NULL DEFAULT NULL,

`student\_id` INT NULL DEFAULT NULL,

`issue\_date` DATE NULL DEFAULT NULL,

`return\_date` DATE NULL DEFAULT NULL,

PRIMARY KEY (`issue\_id`),

INDEX `book\_id\_idx` (`book\_id` ASC) VISIBLE,

INDEX `fk\_student\_id\_idx` (`student\_id` ASC) VISIBLE,

CONSTRAINT `fk\_book\_id`

FOREIGN KEY (`book\_id`)

REFERENCES `taskdb1`.`books\_table` (`book\_id`),

CONSTRAINT `fk\_student\_id`

FOREIGN KEY (`student\_id`)

REFERENCES `taskdb1`.`student\_table` (`student\_id`))

ENGINE = InnoDB

DEFAULT CHARACTER SET = utf8mb4

COLLATE = utf8mb4\_0900\_ai\_ci;

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

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

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