Task 4

**a)**

CREATE DATABASE IF NOT EXISTS `education`

USE `education`;

CREATE TABLE IF NOT EXISTS `institution` (

`institutionid` int(11) NOT NULL,

`name` varchar(250) DEFAULT NULL,

PRIMARY KEY (`institutionid`)

) ;

CREATE TABLE IF NOT EXISTS `course` (

`courseid` int(11) NOT NULL,

`name` varchar(250) DEFAULT NULL,

`institution` int(11) DEFAULT NULL,

PRIMARY KEY (`courseid`),

KEY `FK\_course\_institution` (`institution`),

CONSTRAINT `FK\_course\_institution` FOREIGN KEY (`institution`) REFERENCES `institution` (`institutionid`)

);

CREATE TABLE IF NOT EXISTS `student` (

`studentid` int(11) NOT NULL,

`name` varchar(250) NOT NULL DEFAULT '',

`course` int(11) NOT NULL DEFAULT 0,

PRIMARY KEY (`studentid`),

KEY `FK\_student\_course` (`course`),

CONSTRAINT `FK\_student\_course` FOREIGN KEY (`course`) REFERENCES `course` (`courseid`)

);

**B)**

**SELECT** (**SELECT** **name** **FROM** institution **WHERE** institutionid = C.institution) **AS** 'INSTITUTION NAME',**NAME** **AS** 'COURSE NAME', (**SELECT** **COUNT**(\*) **FROM** student **WHERE** course = C.courseid) **AS** 'NUMBER OF STUDENTS' **FROM** course C