**Database script –**

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 mydb

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

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

-- Schema mydb

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

CREATE SCHEMA IF NOT EXISTS `mydb` DEFAULT CHARACTER SET utf8 ;

USE `mydb` ;

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

-- Table `mydb`.`Department`

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

CREATE TABLE IF NOT EXISTS `mydb`.`Department` (

`DepartmentID` INT NOT NULL AUTO\_INCREMENT,

`DepartmentName` VARCHAR(45) NOT NULL,

PRIMARY KEY (`DepartmentID`))

ENGINE = InnoDB;

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

-- Table `mydb`.`Major`

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

CREATE TABLE IF NOT EXISTS `mydb`.`Major` (

`MajorCode` VARCHAR(20) NOT NULL,

`MajorName` VARCHAR(45) NOT NULL,

`DepartmentID` INT NULL,

PRIMARY KEY (`MajorCode`),

INDEX `DepartmentID\_idx` (`DepartmentID` ASC),

CONSTRAINT `DepartmentID`

FOREIGN KEY (`DepartmentID`)

REFERENCES `mydb`.`Department` (`DepartmentID`)

ON DELETE CASCADE

ON UPDATE CASCADE)

ENGINE = InnoDB;

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

-- Table `mydb`.`Minor`

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

CREATE TABLE IF NOT EXISTS `mydb`.`Minor` (

`MinorCode` VARCHAR(20) NOT NULL,

`MinorName` VARCHAR(45) NOT NULL,

`DepartmentIDMinor` INT NULL,

PRIMARY KEY (`MinorCode`),

INDEX `DepartmentID\_idx` (`DepartmentIDMinor` ASC),

CONSTRAINT `DepartmentIDMinor`

FOREIGN KEY (`DepartmentIDMinor`)

REFERENCES `mydb`.`Department` (`DepartmentID`)

ON DELETE CASCADE

ON UPDATE CASCADE)

ENGINE = InnoDB;

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

-- Table `mydb`.`FacultyAdviser`

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

CREATE TABLE IF NOT EXISTS `mydb`.`FacultyAdviser` (

`ID` INT NOT NULL AUTO\_INCREMENT,

`FirstName` VARCHAR(45) NOT NULL,

`LastName` VARCHAR(45) NOT NULL,

`Email` VARCHAR(45) NULL,

`Dob` DATE NOT NULL,

`Age` INT NOT NULL,

`Phone` VARCHAR(45) NULL,

`Position` VARCHAR(45) NOT NULL,

`HighestDegree` VARCHAR(45) NOT NULL,

`DepartmentID` INT NULL,

PRIMARY KEY (`ID`),

INDEX `DepartmentID\_idx` (`DepartmentID` ASC),

CONSTRAINT `DepartmentIDFaculty`

FOREIGN KEY (`DepartmentID`)

REFERENCES `mydb`.`Department` (`DepartmentID`)

ON DELETE CASCADE

ON UPDATE CASCADE)

ENGINE = InnoDB;

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

-- Table `mydb`.`Student`

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

CREATE TABLE IF NOT EXISTS `mydb`.`Student` (

`ID` INT NOT NULL AUTO\_INCREMENT,

`FirstName` VARCHAR(45) NOT NULL,

`LastName` VARCHAR(45) NOT NULL,

`Email` VARCHAR(45) NULL,

`Dob` DATE NOT NULL,

`Age` INT NOT NULL,

`Phone` VARCHAR(45) NULL,

`Year` VARCHAR(45) NOT NULL,

`OnCampus` TINYINT(1) NOT NULL,

`MajorCode` VARCHAR(20) NULL,

`MinorCode` VARCHAR(20) NULL,

`Advisor` INT NULL,

PRIMARY KEY (`ID`),

INDEX `MajorCode\_idx` (`MajorCode` ASC),

INDEX `MinorCode\_idx` (`MinorCode` ASC),

INDEX `ID\_idx` (`Advisor` ASC),

CONSTRAINT `MajorCode`

FOREIGN KEY (`MajorCode`)

REFERENCES `mydb`.`Major` (`MajorCode`)

ON DELETE CASCADE

ON UPDATE CASCADE,

CONSTRAINT `MinorCode`

FOREIGN KEY (`MinorCode`)

REFERENCES `mydb`.`Minor` (`MinorCode`)

ON DELETE CASCADE

ON UPDATE CASCADE,

CONSTRAINT `FacultyID`

FOREIGN KEY (`Advisor`)

REFERENCES `mydb`.`FacultyAdviser` (`ID`)

ON DELETE CASCADE

ON UPDATE CASCADE)

ENGINE = InnoDB;

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

-- Table `mydb`.`Category`

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

CREATE TABLE IF NOT EXISTS `mydb`.`Category` (

`ID` INT NOT NULL AUTO\_INCREMENT,

`CategoryName` VARCHAR(45) NOT NULL,

PRIMARY KEY (`ID`))

ENGINE = InnoDB;

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

-- Table `mydb`.`Event`

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

CREATE TABLE IF NOT EXISTS `mydb`.`Event` (

`ID` INT NOT NULL AUTO\_INCREMENT,

`StartDate` DATE NOT NULL,

`EndDate` DATE NULL,

`Location` VARCHAR(45) NOT NULL,

`CategoryID` INT NULL,

PRIMARY KEY (`ID`),

INDEX `CategoryID\_idx` (`CategoryID` ASC),

CONSTRAINT `CategoryID`

FOREIGN KEY (`CategoryID`)

REFERENCES `mydb`.`Category` (`ID`)

ON DELETE CASCADE

ON UPDATE CASCADE)

ENGINE = InnoDB;

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

-- Table `mydb`.`EventAttend`

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

CREATE TABLE IF NOT EXISTS `mydb`.`EventAttend` (

`StudentID` INT NOT NULL,

`EventID` INT NOT NULL,

PRIMARY KEY (`StudentID`),

INDEX `EventID\_idx` (`EventID` ASC),

CONSTRAINT `StudentID`

FOREIGN KEY (`StudentID`)

REFERENCES `mydb`.`Student` (`ID`)

ON DELETE CASCADE

ON UPDATE CASCADE,

CONSTRAINT `EventID`

FOREIGN KEY (`EventID`)

REFERENCES `mydb`.`Event` (`ID`)

ON DELETE CASCADE

ON UPDATE CASCADE)

ENGINE = InnoDB;

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

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

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

**Department Insertion -**

INSERT INTO `mydb`.`Department` (`DepartmentID`, `DepartmentName`) VALUES ('1', 'CS');

INSERT INTO `mydb`.`Department` (`DepartmentID`, `DepartmentName`) VALUES ('2', 'IT');

INSERT INTO `mydb`.`Department` (`DepartmentID`, `DepartmentName`) VALUES ('3', 'EE');

INSERT INTO `mydb`.`Department` (`DepartmentID`, `DepartmentName`) VALUES ('4', 'IC');

INSERT INTO `mydb`.`Department` (`DepartmentID`, `DepartmentName`) VALUES ('5', 'EC');

INSERT INTO `mydb`.`Department` (`DepartmentID`, `DepartmentName`) VALUES ('6', 'DSBA');

INSERT INTO `mydb`.`Department` (`DepartmentID`, `DepartmentName`) VALUES ('7', 'CHHS');

INSERT INTO `mydb`.`Department` (`DepartmentID`, `DepartmentName`) VALUES ('8', 'Mechanical');

INSERT INTO `mydb`.`Department` (`DepartmentID`, `DepartmentName`) VALUES ('9', 'Civil');

INSERT INTO `mydb`.`Department` (`DepartmentID`, `DepartmentName`) VALUES ('10', 'ES');

**Major Insertion**

INSERT INTO `mydb`.`Major` (`MajorCode`, `MajorName`, `DepartmentID`) VALUES ('1', 'Data Science', '1');

INSERT INTO `mydb`.`Major` (`MajorCode`, `MajorName`, `DepartmentID`) VALUES ('2', 'Intelligent Systems', '1');

INSERT INTO `mydb`.`Major` (`MajorCode`, `MajorName`, `DepartmentID`) VALUES ('3', 'Embedded Systems', '3');

INSERT INTO `mydb`.`Major` (`MajorCode`, `MajorName`, `DepartmentID`) VALUES ('4', 'Information Security', '2');

INSERT INTO `mydb`.`Major` (`MajorCode`, `MajorName`, `DepartmentID`) VALUES ('5', 'Fluid Mechanics', '8');

INSERT INTO `mydb`.`Major` (`MajorCode`, `MajorName`, `DepartmentID`) VALUES ('6', 'Structural engineering', '9');

INSERT INTO `mydb`.`Major` (`MajorCode`, `MajorName`, `DepartmentID`) VALUES ('7', 'Renewable energy', '10');

INSERT INTO `mydb`.`Major` (`MajorCode`, `MajorName`, `DepartmentID`) VALUES ('8', 'Health management', '7');

INSERT INTO `mydb`.`Major` (`MajorCode`, `MajorName`, `DepartmentID`) VALUES ('9', 'Telecommunications', '5');

INSERT INTO `mydb`.`Major` (`MajorCode`, `MajorName`, `DepartmentID`) VALUES ('10', 'Control and Automation', '4');

INSERT INTO `mydb`.`Major` (`MajorCode`, `MajorName`, `DepartmentID`) VALUES ('11', 'Business Intelligence', '6');

**Minor Code insertions -**

INSERT INTO `mydb`.`Minor` (`MinorCode`, `MinorName`, `DepartmentIDMinor`) VALUES ('1', 'Data Privacy', '2');

INSERT INTO `mydb`.`Minor` (`MinorCode`, `MinorName`, `DepartmentIDMinor`) VALUES ('2', 'Computer Vision', '1');

INSERT INTO `mydb`.`Minor` (`MinorCode`, `MinorName`, `DepartmentIDMinor`) VALUES ('3', 'Website development', '2');

INSERT INTO `mydb`.`Minor` (`MinorCode`, `MinorName`, `DepartmentIDMinor`) VALUES ('4', 'Cloud computing', '1');

INSERT INTO `mydb`.`Minor` (`MinorCode`, `MinorName`, `DepartmentIDMinor`) VALUES ('5', 'Instrumentation Systems', '4');

INSERT INTO `mydb`.`Minor` (`MinorCode`, `MinorName`, `DepartmentIDMinor`) VALUES ('6', 'Power Transmission', '3');

INSERT INTO `mydb`.`Minor` (`MinorCode`, `MinorName`, `DepartmentIDMinor`) VALUES ('7', 'Fiber communication', '5');

INSERT INTO `mydb`.`Minor` (`MinorCode`, `MinorName`, `DepartmentIDMinor`) VALUES ('8', 'Financial Econometrics', '6');

INSERT INTO `mydb`.`Minor` (`MinorCode`, `MinorName`, `DepartmentIDMinor`) VALUES ('9', 'Autocad', '8');

INSERT INTO `mydb`.`Minor` (`MinorCode`, `MinorName`, `DepartmentIDMinor`) VALUES ('10', 'Nursing', '7');

INSERT INTO `mydb`.`Minor` (`MinorCode`, `MinorName`, `DepartmentIDMinor`) VALUES ('11', 'Bridge basics', '9');

INSERT INTO `mydb`.`Minor` (`MinorCode`, `MinorName`, `DepartmentIDMinor`) VALUES ('12', 'Coal energy plants', '10');