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 ezc353\_4

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

CREATE SCHEMA IF NOT EXISTS `ezc353\_4` DEFAULT CHARACTER SET utf8 ;

USE `ezc353\_4` ;

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

-- Table `ezc353\_4`.`Department`

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

CREATE TABLE `ezc353\_4`.`Department` (

`DID` INT NOT NULL,

`Dept\_Name` VARCHAR(45) NOT NULL,

`Manager\_SIN` CHAR(11) NOT NULL,

`Manager\_StartDate` DATE NULL,

PRIMARY KEY (`DID`),

UNIQUE INDEX `DID\_UNIQUE` (`DID` ASC),

UNIQUE INDEX `Dept\_Name\_UNIQUE` (`Dept\_Name` ASC),

UNIQUE INDEX `Manager\_SIN\_UNIQUE` (`Manager\_SIN` ASC),

CONSTRAINT `fk\_Deparment\_Employee1`

FOREIGN KEY (`Manager\_SIN`)

REFERENCES `ezc353\_4`.`Employee` (`Employee\_SIN`)

ON DELETE NO ACTION

ON UPDATE CASCADE)

ENGINE = InnoDB;

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

-- Table `ezc353\_4`.`Employee`

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

CREATE TABLE IF NOT EXISTS `ezc353\_4`.`Employee` (

`Employee\_SIN` CHAR(11) NOT NULL,

`Gender` CHAR(1) CHECK (`Gender`=`F` OR `Gender`=`M`),

`Salary` DOUBLE CHECK (`Salary` >= 15000),

`Address` VARCHAR(45) NULL,

`Employee\_Name` VARCHAR(45) NULL,

`DateOfBirth` DATE NULL,

`DID` INT NULL,

PRIMARY KEY (`Employee\_SIN`),

UNIQUE INDEX `SIN\_UNIQUE` (`Employee\_SIN` ASC),

INDEX `fk\_Employee\_Deparment1\_idx` (`DID` ASC),

CONSTRAINT `fk\_Employee\_Deparment1`

FOREIGN KEY (`DID`)

REFERENCES `ezc353\_4`.`Department` (`DID`)

ON DELETE SET NULL

ON UPDATE CASCADE)

ENGINE = InnoDB;

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

-- Table `ezc353\_4`.`Location`

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

CREATE TABLE IF NOT EXISTS `ezc353\_4`.`Location` (

`LID` INT NOT NULL,

`DID` INT NOT NULL,

`Address` VARCHAR(45) NULL,

PRIMARY KEY (`LID`),

UNIQUE INDEX `LID\_UNIQUE` (`LID` ASC),

INDEX `fk\_Location\_Department\_idx` (`DID` ASC),

CONSTRAINT `fk\_Location\_Department`

FOREIGN KEY (`DID`)

REFERENCES `ezc353\_4`.`Department` (`DID`)

ON DELETE NO ACTION

ON UPDATE CASCADE)

ENGINE = InnoDB;

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

-- Table `ezc353\_4`.`Project`

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

CREATE TABLE IF NOT EXISTS `ezc353\_4`.`Project` (

`PID` INT NOT NULL,

`Proj\_Name` VARCHAR(45) NOT NULL,

`Proj\_StartDate` DATE NULL,

`DeadLine` DATE NULL,

`Leader\_SIN` CHAR(11) NULL,

`LID` INT NOT NULL,

PRIMARY KEY (`PID`),

UNIQUE INDEX `PID\_UNIQUE` (`PID` ASC),

INDEX `fk\_Dependent\_Employee1\_idx` (`Leader\_SIN` ASC),

UNIQUE INDEX `Proj\_Name\_UNIQUE` (`Proj\_Name` ASC),

CONSTRAINT `fk\_Project\_Employee1`

FOREIGN KEY (`Leader\_SIN`)

REFERENCES `ezc353\_4`.`Employee` (`Employee\_SIN`)

ON DELETE SET NULL

ON UPDATE CASCADE,

CONSTRAINT `fk\_Project\_Location1`

FOREIGN KEY (`LID`)

REFERENCES `ezc353\_4`.`Location` (`LID`)

ON DELETE NO ACTION

ON UPDATE CASCADE)

ENGINE = InnoDB;

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

-- Table `ezc353\_4`.`WorksOn`

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

CREATE TABLE IF NOT EXISTS `ezc353\_4`.`WorksOn` (

`Hours` INT NULL,

`Employee\_SIN` CHAR(11) NOT NULL,

`PID` INT NOT NULL,

PRIMARY KEY (`Employee\_SIN`, `PID`),

INDEX `fk\_WorksOn\_Project1\_idx` (`PID` ASC),

CONSTRAINT `fk\_WorksOn\_Employee`

FOREIGN KEY (`Employee\_SIN`)

REFERENCES `ezc353\_4`.`Employee` (`Employee\_SIN`)

ON DELETE CASCADE

ON UPDATE CASCADE,

CONSTRAINT `fk\_WorksOn\_Project1`

FOREIGN KEY (`PID`)

REFERENCES `ezc353\_4`.`Project` (`PID`)

ON DELETE CASCADE

ON UPDATE CASCADE)

ENGINE = InnoDB;

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

-- Table `ezc353\_4`.`SuperVising`

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

CREATE TABLE IF NOT EXISTS `ezc353\_4`.`SuperVising` (

`Sup\_SIN` CHAR(11) NOT NULL,

`Sub\_SIN` CHAR(11) NOT NULL,

PRIMARY KEY (`Sub\_SIN`),

INDEX `fk\_SuperVising\_Employee2\_idx` (`Sub\_SIN` ASC),

UNIQUE INDEX `Sub\_SIN\_UNIQUE` (`Sub\_SIN` ASC),

CONSTRAINT `fk\_SuperVising\_Employee1`

FOREIGN KEY (`Sup\_SIN`)

REFERENCES `ezc353\_4`.`Employee` (`Employee\_SIN`)

ON DELETE CASCADE

ON UPDATE CASCADE,

CONSTRAINT `fk\_SuperVising\_Employee2`

FOREIGN KEY (`Sub\_SIN`)

REFERENCES `ezc353\_4`.`Employee` (`Employee\_SIN`)

ON DELETE CASCADE

ON UPDATE CASCADE)

ENGINE = InnoDB;

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

-- Table `ezc353\_4`.`Phone`

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

CREATE TABLE IF NOT EXISTS `ezc353\_4`.`Phone` (

`Phone\_Number` CHAR(12) NOT NULL,

`Employee\_SIN` CHAR(11) NOT NULL,

`Phone\_Type` CHAR(4) NULL,

PRIMARY KEY (`Phone\_Number`),

CONSTRAINT `fk\_Phone\_Employee1`

FOREIGN KEY (`Employee\_SIN`)

REFERENCES `ezc353\_4`.`Employee` (`Employee\_SIN`)

ON DELETE CASCADE

ON UPDATE CASCADE)

ENGINE = InnoDB;

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

-- Table `ezc353\_4`.`Dependent`

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

CREATE TABLE IF NOT EXISTS `ezc353\_4`.`Dependent` (

`Dep\_SIN` CHAR(11) NOT NULL,

`DEP\_Name` VARCHAR(45) NULL,

`DateOfBirth` DATE NULL,

`Address` VARCHAR(45) NULL,

`Gender` CHAR(1) CHECK (`Gender`=`F` OR `Gender`=`M`),

`Relationship` VARCHAR(45) NULL,

`Employee\_SIN` CHAR(11) NOT NULL,

PRIMARY KEY (`Dep\_SIN`, `Employee\_SIN`),

INDEX `fk\_Dependent\_Employee1\_idx` (`Employee\_SIN` ASC),

CONSTRAINT `fk\_Dependent\_Employee1`

FOREIGN KEY (`Employee\_SIN`)

REFERENCES `ezc353\_4`.`Employee` (`Employee\_SIN`)

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;