-- 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 VU

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

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

-- Schema VU

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

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

USE `VU` ;

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

-- Table `VU`.`Patient`

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

CREATE TABLE IF NOT EXISTS `VU`.`Patient` (

`id\_patient` INT NOT NULL,

`name` VARCHAR(100) NOT NULL,

`birth` DATE NOT NULL,

`gender` ENUM('Male', 'Female') NOT NULL,

`weight` DOUBLE NULL,

`height` DOUBLE NULL,

`street` VARCHAR(100) NULL,

`zone` VARCHAR(45) NULL,

`companion\_name` VARCHAR(100) NULL,

`companion\_phone` CHAR(11) NULL,

`patient\_phone` CHAR(11) NULL,

PRIMARY KEY (`id\_patient`))

ENGINE = InnoDB;

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

-- Table `VU`.`Doctor`

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

CREATE TABLE IF NOT EXISTS `VU`.`Doctor` (

`id\_doctor` INT NOT NULL,

`name` VARCHAR(100) NOT NULL,

`specialize` VARCHAR(100) NULL,

`street` VARCHAR(100) NULL,

`zone` VARCHAR(45) NULL,

`password` INT NULL,

PRIMARY KEY (`id\_doctor`))

ENGINE = InnoDB;

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

-- Table `VU`.`ICU`

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

CREATE TABLE IF NOT EXISTS `VU`.`ICU` (

`id\_icu` INT NOT NULL,

`name` VARCHAR(45) NOT NULL,

`id\_doctor` INT NOT NULL,

PRIMARY KEY (`id\_icu`),

INDEX `id\_doctor\_idx` (`id\_doctor` ASC) VISIBLE,

FOREIGN KEY (`id\_doctor`)

REFERENCES `VU`.`Doctor` (`id\_doctor`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

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

-- Table `VU`.`Unit`

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

CREATE TABLE IF NOT EXISTS `VU`.`Unit` (

`id\_unit` INT NOT NULL,

`name` VARCHAR(45) NOT NULL,

`id\_icu` INT NOT NULL,

PRIMARY KEY (`id\_unit`),

INDEX `id\_icu\_idx` (`id\_icu` ASC) VISIBLE,

FOREIGN KEY (`id\_icu`)

REFERENCES `VU`.`ICU` (`id\_icu`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

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

-- Table `VU`.`Device`

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

CREATE TABLE IF NOT EXISTS `VU`.`Device` (

`id\_device` INT NOT NULL,

`name` VARCHAR(45) NOT NULL,

`id\_patient` INT NULL,

`id\_unit` INT NOT NULL,

PRIMARY KEY (`id\_device`),

INDEX `id\_patient\_idx` (`id\_patient` ASC) VISIBLE,

INDEX `id\_unit\_idx` (`id\_unit` ASC) VISIBLE,

FOREIGN KEY (`id\_patient`)

REFERENCES `VU`.`Patient` (`id\_patient`)

ON DELETE NO ACTION

ON UPDATE NO ACTION,

FOREIGN KEY (`id\_unit`)

REFERENCES `VU`.`Unit` (`id\_unit`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

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

-- Table `VU`.`Sign`

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

CREATE TABLE IF NOT EXISTS `VU`.`Sign` (

`id\_sign` INT NOT NULL AUTO\_INCREMENT,

`name` VARCHAR(45) NOT NULL,

PRIMARY KEY (`id\_sign`))

ENGINE = InnoDB;

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

-- Table `VU`.`Coordinate`

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

CREATE TABLE IF NOT EXISTS `VU`.`Coordinate` (

`id\_coordinate` INT NOT NULL AUTO\_INCREMENT,

`x1` DOUBLE NOT NULL,

`y1` DOUBLE NOT NULL,

`x2` DOUBLE NOT NULL,

`y2` DOUBLE NOT NULL,

`id\_sign` INT NOT NULL,

PRIMARY KEY (`id\_coordinate`),

INDEX `id\_sign\_idx` (`id\_sign` ASC) VISIBLE,

FOREIGN KEY (`id\_sign`)

REFERENCES `VU`.`Sign` (`id\_sign`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

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

-- Table `VU`.`ShiftDoctor`

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

CREATE TABLE IF NOT EXISTS `VU`.`ShiftDoctor` (

`id\_shiftdoctor` INT NOT NULL AUTO\_INCREMENT,

`start` DATETIME NOT NULL,

`end` DATETIME NOT NULL,

PRIMARY KEY (`id\_shiftdoctor`))

ENGINE = InnoDB;

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

-- Table `VU`.`Medicine`

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

CREATE TABLE IF NOT EXISTS `VU`.`Medicine` (

`id\_medicine` INT NOT NULL AUTO\_INCREMENT,

`name` VARCHAR(45) NOT NULL,

`amount` INT NOT NULL,

PRIMARY KEY (`id\_medicine`))

ENGINE = InnoDB;

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

-- Table `VU`.`Nurse`

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

CREATE TABLE IF NOT EXISTS `VU`.`Nurse` (

`id\_nurse` INT NOT NULL,

`name` VARCHAR(100) NOT NULL,

`street` VARCHAR(100) NULL,

`zone` VARCHAR(45) NULL,

`password` INT NULL,

PRIMARY KEY (`id\_nurse`))

ENGINE = InnoDB;

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

-- Table `VU`.`Task`

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

CREATE TABLE IF NOT EXISTS `VU`.`Task` (

`id\_task` INT NOT NULL AUTO\_INCREMENT,

`discription` VARCHAR(500) NULL,

`status` ENUM('done', 'not done') NOT NULL,

`donedate` TIMESTAMP NULL,

`duedate` DATETIME NULL,

`id\_doctor` INT NOT NULL,

`id\_patient` INT NOT NULL,

`id\_medicine` INT NULL,

`id\_nurse` INT NULL,

PRIMARY KEY (`id\_task`),

INDEX `id\_doctor\_idx` (`id\_doctor` ASC) VISIBLE,

INDEX `id\_patient\_idx` (`id\_patient` ASC) VISIBLE,

INDEX `id\_medicine\_idx` (`id\_medicine` ASC) VISIBLE,

INDEX `id\_nurse\_idx` (`id\_nurse` ASC) VISIBLE,

FOREIGN KEY (`id\_doctor`)

REFERENCES `VU`.`Doctor` (`id\_doctor`)

ON DELETE NO ACTION

ON UPDATE NO ACTION,

FOREIGN KEY (`id\_patient`)

REFERENCES `VU`.`Patient` (`id\_patient`)

ON DELETE NO ACTION

ON UPDATE NO ACTION,

FOREIGN KEY (`id\_medicine`)

REFERENCES `VU`.`Medicine` (`id\_medicine`)

ON DELETE NO ACTION

ON UPDATE NO ACTION,

FOREIGN KEY (`id\_nurse`)

REFERENCES `VU`.`Nurse` (`id\_nurse`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

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

-- Table `VU`.`Report`

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

CREATE TABLE IF NOT EXISTS `VU`.`Report` (

`id\_report` INT NOT NULL AUTO\_INCREMENT,

`name` VARCHAR(45) NOT NULL,

`date` DATE NOT NULL DEFAULT (current\_date()),

`id\_patient` INT NOT NULL,

PRIMARY KEY (`id\_report`),

INDEX `FK\_id\_patient\_idx` (`id\_patient` ASC) VISIBLE,

FOREIGN KEY (`id\_patient`)

REFERENCES `VU`.`Patient` (`id\_patient`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

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

-- Table `VU`.`Image`

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

CREATE TABLE IF NOT EXISTS `VU`.`Image` (

`id\_image` INT NOT NULL AUTO\_INCREMENT,

`path` BLOB NOT NULL,

`id\_task` INT NULL,

`id\_report` INT NULL,

PRIMARY KEY (`id\_image`),

INDEX `id\_task\_idx` (`id\_task` ASC) VISIBLE,

INDEX `id\_report\_idx` (`id\_report` ASC) VISIBLE,

FOREIGN KEY (`id\_task`)

REFERENCES `VU`.`Task` (`id\_task`)

ON DELETE NO ACTION

ON UPDATE NO ACTION,

FOREIGN KEY (`id\_report`)

REFERENCES `VU`.`Report` (`id\_report`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

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

-- Table `VU`.`ShiftNurse`

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

CREATE TABLE IF NOT EXISTS `VU`.`ShiftNurse` (

`id\_shiftnurse` INT NOT NULL AUTO\_INCREMENT,

`start` TIME NOT NULL,

`end` TIME NOT NULL,

PRIMARY KEY (`id\_shiftnurse`))

ENGINE = InnoDB;

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

-- Table `VU`.`VitalSignsRecord`

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

CREATE TABLE IF NOT EXISTS `VU`.`VitalSignsRecord` (

`id\_record` INT NOT NULL AUTO\_INCREMENT,

`date` DATE NOT NULL DEFAULT (current\_date()),

`id\_patient` INT NOT NULL,

PRIMARY KEY (`id\_record`),

INDEX `id\_patient\_idx` (`id\_patient` ASC) VISIBLE,

FOREIGN KEY (`id\_patient`)

REFERENCES `VU`.`Patient` (`id\_patient`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

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

-- Table `VU`.`Device\_Sign`

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

CREATE TABLE IF NOT EXISTS `VU`.`Device\_Sign` (

`id\_device` INT NOT NULL,

`id\_sign` INT NOT NULL,

PRIMARY KEY (`id\_device`, `id\_sign`),

INDEX `id\_sign\_idx` (`id\_sign` ASC) VISIBLE,

FOREIGN KEY (`id\_device`)

REFERENCES `VU`.`Device` (`id\_device`)

ON DELETE NO ACTION

ON UPDATE NO ACTION,

FOREIGN KEY (`id\_sign`)

REFERENCES `VU`.`Sign` (`id\_sign`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

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

-- Table `VU`.`Patient\_ICU`

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

CREATE TABLE IF NOT EXISTS `VU`.`Patient\_ICU` (

`id\_patient` INT NOT NULL,

`id\_icu` INT NOT NULL,

`date\_in` DATE NOT NULL DEFAULT (current\_date()),

`date\_out` DATE NOT NULL,

PRIMARY KEY (`id\_patient`, `id\_icu`),

INDEX `id\_icu\_idx` (`id\_icu` ASC) VISIBLE,

FOREIGN KEY (`id\_patient`)

REFERENCES `VU`.`Patient` (`id\_patient`)

ON DELETE NO ACTION

ON UPDATE NO ACTION,

FOREIGN KEY (`id\_icu`)

REFERENCES `VU`.`ICU` (`id\_icu`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

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

-- Table `VU`.`Doctor\_Shift\_Unit`

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

CREATE TABLE IF NOT EXISTS `VU`.`Doctor\_Shift\_Unit` (

`id\_doctor` INT NOT NULL,

`id\_unit` INT NOT NULL,

`id\_shiftdoctor` INT NOT NULL,

PRIMARY KEY (`id\_doctor`, `id\_unit`, `id\_shiftdoctor`),

INDEX `id\_unit\_idx` (`id\_unit` ASC) VISIBLE,

INDEX `id\_shiftdoctor\_idx` (`id\_shiftdoctor` ASC) VISIBLE,

FOREIGN KEY (`id\_doctor`)

REFERENCES `VU`.`Doctor` (`id\_doctor`)

ON DELETE NO ACTION

ON UPDATE NO ACTION,

FOREIGN KEY (`id\_unit`)

REFERENCES `VU`.`Unit` (`id\_unit`)

ON DELETE NO ACTION

ON UPDATE NO ACTION,

FOREIGN KEY (`id\_shiftdoctor`)

REFERENCES `VU`.`ShiftDoctor` (`id\_shiftdoctor`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

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

-- Table `VU`.`Doctor\_Phone`

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

CREATE TABLE IF NOT EXISTS `VU`.`Doctor\_Phone` (

`id\_doctor` INT NOT NULL,

`phone` INT NOT NULL,

PRIMARY KEY (`id\_doctor`, `phone`),

FOREIGN KEY (`id\_doctor`)

REFERENCES `VU`.`Doctor` (`id\_doctor`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

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

-- Table `VU`.`Nurse\_Phone`

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

CREATE TABLE IF NOT EXISTS `VU`.`Nurse\_Phone` (

`id\_nurse` INT NOT NULL,

`phone` INT NOT NULL,

PRIMARY KEY (`id\_nurse`, `phone`),

FOREIGN KEY (`id\_nurse`)

REFERENCES `VU`.`Nurse` (`id\_nurse`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

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

-- Table `VU`.`Nurse\_Shift\_Patient`

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

CREATE TABLE IF NOT EXISTS `VU`.`Nurse\_Shift\_Patient` (

`id\_nurse` INT NOT NULL,

`id\_shiftnurse` INT NOT NULL,

`id\_patient` INT NOT NULL,

PRIMARY KEY (`id\_nurse`, `id\_shiftnurse`, `id\_patient`),

INDEX `id\_shiftnurse\_idx` (`id\_shiftnurse` ASC) VISIBLE,

INDEX `id\_patient\_idx` (`id\_patient` ASC) VISIBLE,

FOREIGN KEY (`id\_nurse`)

REFERENCES `VU`.`Nurse` (`id\_nurse`)

ON DELETE NO ACTION

ON UPDATE NO ACTION,

FOREIGN KEY (`id\_shiftnurse`)

REFERENCES `VU`.`ShiftNurse` (`id\_shiftnurse`)

ON DELETE NO ACTION

ON UPDATE NO ACTION,

FOREIGN KEY (`id\_patient`)

REFERENCES `VU`.`Patient` (`id\_patient`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

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

-- Table `VU`.`HR`

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

CREATE TABLE IF NOT EXISTS `VU`.`HR` (

`id\_record` INT NOT NULL,

`time` TIME NOT NULL DEFAULT (current\_time()),

`value` DOUBLE NOT NULL,

PRIMARY KEY (`id\_record`, `time`),

FOREIGN KEY (`id\_record`)

REFERENCES `VU`.`VitalSignsRecord` (`id\_record`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

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

-- Table `VU`.`Temprature`

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

CREATE TABLE IF NOT EXISTS `VU`.`Temprature` (

`id\_record` INT NOT NULL,

`time` TIME NOT NULL DEFAULT (current\_time()),

`value` DOUBLE NOT NULL,

PRIMARY KEY (`id\_record`, `time`),

FOREIGN KEY (`id\_record`)

REFERENCES `VU`.`VitalSignsRecord` (`id\_record`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

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

-- Table `VU`.`SPO2`

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

CREATE TABLE IF NOT EXISTS `VU`.`SPO2` (

`id\_record` INT NOT NULL,

`time` TIME NOT NULL DEFAULT (current\_time()),

`value` DOUBLE NOT NULL,

PRIMARY KEY (`id\_record`, `time`),

FOREIGN KEY (`id\_record`)

REFERENCES `VU`.`VitalSignsRecord` (`id\_record`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

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

-- Table `VU`.`ETCO2`

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

CREATE TABLE IF NOT EXISTS `VU`.`ETCO2` (

`id\_record` INT NOT NULL,

`time` TIME NOT NULL DEFAULT (current\_time()),

`value` TIME NOT NULL,

PRIMARY KEY (`id\_record`, `time`),

FOREIGN KEY (`id\_record`)

REFERENCES `VU`.`VitalSignsRecord` (`id\_record`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

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

-- Table `VU`.`Pulse`

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

CREATE TABLE IF NOT EXISTS `VU`.`Pulse` (

`id\_record` INT NOT NULL,

`time` TIME NOT NULL DEFAULT (current\_time()),

`value` DOUBLE NOT NULL,

PRIMARY KEY (`id\_record`, `time`),

FOREIGN KEY (`id\_record`)

REFERENCES `VU`.`VitalSignsRecord` (`id\_record`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

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

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

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