-- MySQL Script generated by MySQL Workbench

-- Wed Jul 14 08:34:07 2021

-- 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 horseracing

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

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

-- Schema horseracing

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

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

USE `horseracing` ;

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

-- Table `horseracing`.`yard`

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

CREATE TABLE IF NOT EXISTS `horseracing`.`yard` (

`yardID` INT NOT NULL,

`yard\_name` VARCHAR(50) NULL DEFAULT NULL,

`regNUM` INT NOT NULL,

PRIMARY KEY (`yardID`))

ENGINE = InnoDB

DEFAULT CHARACTER SET = utf8mb4

COLLATE = utf8mb4\_0900\_ai\_ci;

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

-- Table `horseracing`.`horse`

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

CREATE TABLE IF NOT EXISTS `horseracing`.`horse` (

`yardID` INT NOT NULL,

`HorseName` VARCHAR(50) NOT NULL,

`regNUM` INT NOT NULL,

`gender` VARCHAR(10) NULL DEFAULT NULL,

`DOB` DATE NULL DEFAULT NULL,

`RaceCode` CHAR(2) NULL DEFAULT NULL,

INDEX `yardID` (`yardID` ASC) VISIBLE,

CONSTRAINT `horse\_ibfk\_1`

FOREIGN KEY (`yardID`)

REFERENCES `horseracing`.`yard` (`yardID`))

ENGINE = InnoDB

DEFAULT CHARACTER SET = utf8mb4

COLLATE = utf8mb4\_0900\_ai\_ci;

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

-- Table `horseracing`.`person`

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

CREATE TABLE IF NOT EXISTS `horseracing`.`person` (

`personID` INT NOT NULL,

`f\_name` VARCHAR(50) NOT NULL,

`surname` VARCHAR(50) NOT NULL,

`address` VARCHAR(100) NULL DEFAULT NULL,

`phone` VARCHAR(50) NULL DEFAULT NULL,

PRIMARY KEY (`personID`))

ENGINE = InnoDB

DEFAULT CHARACTER SET = utf8mb4

COLLATE = utf8mb4\_0900\_ai\_ci;

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

-- Table `horseracing`.`owner`

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

CREATE TABLE IF NOT EXISTS `horseracing`.`owner` (

`personID` INT NULL DEFAULT NULL,

`regNUM` INT NOT NULL,

INDEX `personID` (`personID` ASC) VISIBLE,

CONSTRAINT `owner\_ibfk\_1`

FOREIGN KEY (`personID`)

REFERENCES `horseracing`.`person` (`personID`))

ENGINE = InnoDB

DEFAULT CHARACTER SET = utf8mb4

COLLATE = utf8mb4\_0900\_ai\_ci;

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

-- Table `horseracing`.`race`

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

CREATE TABLE IF NOT EXISTS `horseracing`.`race` (

`RaceDate` DATE NOT NULL,

`Course` VARCHAR(50) NULL DEFAULT NULL,

`HorseName` VARCHAR(50) NULL DEFAULT NULL,

`RaceCode` CHAR(2) NULL DEFAULT NULL)

ENGINE = InnoDB

DEFAULT CHARACTER SET = utf8mb4

COLLATE = utf8mb4\_0900\_ai\_ci;

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

-- Table `horseracing`.`trainer`

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

CREATE TABLE IF NOT EXISTS `horseracing`.`trainer` (

`yardID` INT NOT NULL,

`personID` INT NULL DEFAULT NULL,

`regNUM` INT NOT NULL,

INDEX `yardID` (`yardID` ASC) VISIBLE,

INDEX `personID` (`personID` ASC) VISIBLE,

CONSTRAINT `trainer\_ibfk\_1`

FOREIGN KEY (`yardID`)

REFERENCES `horseracing`.`yard` (`yardID`),

CONSTRAINT `trainer\_ibfk\_2`

FOREIGN KEY (`personID`)

REFERENCES `horseracing`.`person` (`personID`))

ENGINE = InnoDB

DEFAULT CHARACTER SET = utf8mb4

COLLATE = utf8mb4\_0900\_ai\_ci;

USE `horseracing` ;

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

-- Placeholder table for view `horseracing`.`trainer\_info`

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

CREATE TABLE IF NOT EXISTS `horseracing`.`trainer\_info` (`f\_name` INT, `surname` INT, `address` INT, `yardID` INT, `yard\_name` INT);

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

-- procedure get\_horse

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

DELIMITER $$

USE `horseracing`$$

CREATE DEFINER=`root`@`localhost` PROCEDURE `get\_horse`(yardID INT)

BEGIN

IF yardID IS NULL THEN

SELECT \* FROM horse;

ELSE

SELECT \* FROM horse h

WHERE h.yardID = yardID;

END IF;

END$$

DELIMITER ;

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

-- function horse\_age

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

DELIMITER $$

USE `horseracing`$$

CREATE DEFINER=`root`@`localhost` FUNCTION `horse\_age`(date1 date) RETURNS int

DETERMINISTIC

BEGIN

DECLARE date2 DATE;

SELECT current\_date() into date2;

RETURN year(date2)-year(date1);

END$$

DELIMITER ;

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

-- View `horseracing`.`trainer\_info`

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

DROP TABLE IF EXISTS `horseracing`.`trainer\_info`;

USE `horseracing`;

CREATE OR REPLACE ALGORITHM=UNDEFINED DEFINER=`root`@`localhost` SQL SECURITY DEFINER VIEW `horseracing`.`trainer\_info` AS select `horseracing`.`person`.`f\_name` AS `f\_name`,`horseracing`.`person`.`surname` AS `surname`,`horseracing`.`person`.`address` AS `address`,`horseracing`.`trainer`.`yardID` AS `yardID`,`horseracing`.`yard`.`yard\_name` AS `yard\_name` from ((`horseracing`.`person` join `horseracing`.`trainer` on((`horseracing`.`person`.`personID` = `horseracing`.`trainer`.`personID`))) join `horseracing`.`yard` on((`horseracing`.`trainer`.`yardID` = `horseracing`.`yard`.`yardID`)));

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

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

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