CREATE SCHEMA IF NOT EXISTS sbb;

CREATE TABLE `sbb`.`station` (

`id` INT NOT NULL,

`name` VARCHAR(45) NOT NULL,

PRIMARY KEY (`id`));

CREATE TABLE `sbb`.`route` (

`id` INT NOT NULL,

`name` VARCHAR(100) NOT NULL,

PRIMARY KEY (`id`));

CREATE TABLE `sbb`.`train` (

`id` INT NOT NULL,

`name` VARCHAR(45) NOT NULL,

`capacity` INT NOT NULL,

PRIMARY KEY (`id`));

CREATE TABLE `sbb`.`trip` (

`id` INT NOT NULL,

`train\_id` INT NOT NULL,

`route\_id` INT NOT NULL,

`departure\_time` DATETIME NOT NULL,

PRIMARY KEY (`id`));

ALTER TABLE `sbb`.`trip`

ADD INDEX `fk\_trip\_to\_train\_idx` (`train\_id` ASC) VISIBLE,

ADD INDEX `fk\_trip\_to\_route\_idx` (`route\_id` ASC) VISIBLE;

;

ALTER TABLE `sbb`.`trip`

ADD CONSTRAINT `fk\_trip\_to\_train`

FOREIGN KEY (`train\_id`)

REFERENCES `sbb`.`train` (`id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION,

ADD CONSTRAINT `fk\_trip\_to\_route`

FOREIGN KEY (`route\_id`)

REFERENCES `sbb`.`route` (`id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION;

CREATE TABLE `sbb`.`schedule` (

`id` INT NOT NULL,

`route\_id` INT NOT NULL,

`stationindex` INT NOT NULL,

`station\_from` INT NOT NULL,

`station\_to` INT NOT NULL,

`duration` VARCHAR(45) NOT NULL,

PRIMARY KEY (`id`),

INDEX `fk\_schedule\_to\_route\_idx` (`route\_id` ASC) VISIBLE,

INDEX `fk\_shedule\_to\_stationfrom\_idx` (`station\_from` ASC) VISIBLE,

INDEX `fk\_schedule\_to\_stationto\_idx` (`station\_to` ASC) VISIBLE,

CONSTRAINT `fk\_schedule\_to\_route`

FOREIGN KEY (`route\_id`)

REFERENCES `sbb`.`route` (`id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION,

CONSTRAINT `fk\_schedule\_to\_stationfrom`

FOREIGN KEY (`station\_from`)

REFERENCES `sbb`.`station` (`id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION,

CONSTRAINT `fk\_schedule\_to\_stationto`

FOREIGN KEY (`station\_to`)

REFERENCES `sbb`.`station` (`id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION);

CREATE TABLE `sbb`.`passenger` (

`id` INT NOT NULL,

`firstname` VARCHAR(45) NOT NULL,

`lastname` VARCHAR(45) NOT NULL,

`birthdate` DATE NOT NULL,

PRIMARY KEY (`id`));

CREATE TABLE `sbb`.`ticket` (

`id` INT NOT NULL,

`trip\_id` INT NOT NULL,

`passenger\_id` INT NOT NULL,

PRIMARY KEY (`id`),

INDEX `fk\_ticket\_to\_trip\_idx` (`trip\_id` ASC) VISIBLE,

INDEX `fk\_ticket\_to\_pass\_idx` (`passenger\_id` ASC) VISIBLE,

CONSTRAINT `fk\_ticket\_to\_trip`

FOREIGN KEY (`trip\_id`)

REFERENCES `sbb`.`trip` (`id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION,

CONSTRAINT `fk\_ticket\_to\_pass`

FOREIGN KEY (`passenger\_id`)

REFERENCES `sbb`.`passenger` (`id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION);