Министерство образования Республики Беларусь

Учреждение образования

БЕЛОРУССКИЙ ГОСУДАРСТВЕННЫЙ УНИВЕРСИТЕТ

ИНФОРМАТИКИ И РАДИОЭЛЕКТРОННИКИ

КАФЕДРА ИНФОРМАТИКИ

Отчёт по лабораторной работе №1

по дисциплине «Модели данных и системы управления базами данных»

по теме «Интернет площадка услуг по аренде легковых автомобилией(каршеринг)»

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Проверил:

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Минск 2020

**1. Техническое задание для системы.**

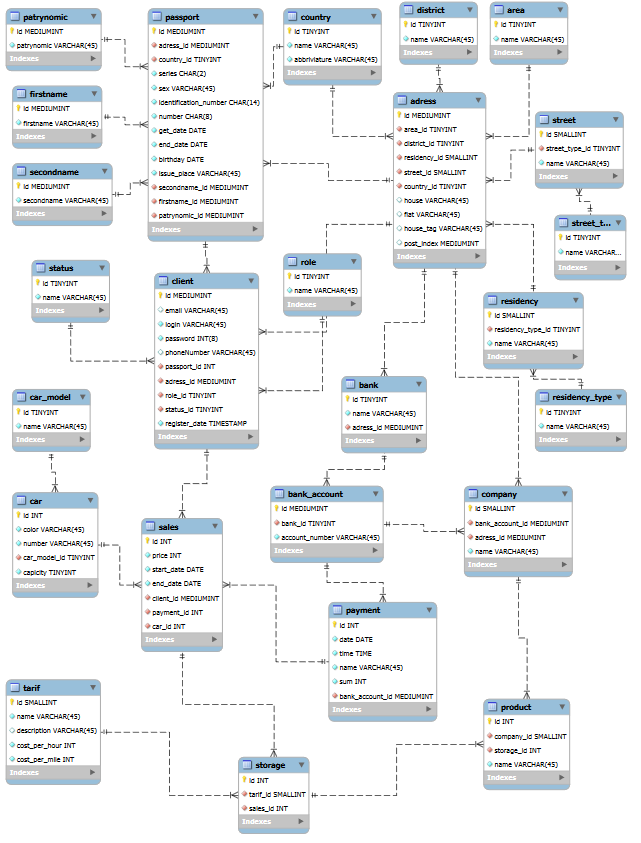
**Обязательные функции:**

1. Авторизация пользователей (гость авторизуется как администратор, оператор, авторизованный пользователь).
2. Управление пользователями (создание, изменение прав, блокировка пользователя, поиск пользователей по различным критериям).
3. Поиск услуг по различным критериям (характеристикам автомобиля , тарифу).

**Функции:**

1. Изменение прав доступа пользователя (для администратора).
2. Регистрация пользователя по электронной почте или мобильному телефону (для гостя).
3. Редактирование пользовательской информации (для администратора или владельца профиля).
4. Добавление новых тарифов (для администратора).
5. Изменение тарифов (для администратора).
6. Добавление автомобилей для аренды (для администратора).
7. Изменение информации о автомобиле (для администратора).
8. Просмотр информации о клиенте (для администратора и оператора).
9. Просмотр списка доступных для аренды автомобилей (для оператора, клиента).
10. Сортировка автомобилей по стоимости , доступности , модели (для пользователя и оператора).
11. Просмотр всех услуг (для оператора, клиента).
12. Сортировка услуг по стоимости, названию (для оператора, клиента).
13. Аренда автомобиля (для пользователя).
14. Добавление новых компаний (для администратора).
15. Изменение информации о компании (для администратора).
16. Просмотр статистики о продаже услуг за промежуток времени (для администратора).
17. Просмотр информации о платеже клиента (для администратора и оператора).
18. Просмотр информации о банке клиента (для администратора).
19. Добавление новых банков (для администратора).
20. Изменение существующей информации о банке (для администратора).

**2. Модель базы данных.**



**3. Набор SQL-запросов по созданию схемы данных в СУБД.**

-- MySQL Script generated by MySQL Workbench

-- MySQL Script generated by MySQL Workbench

-- Thu Apr 16 19:35:29 2020

-- 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 app\_schema

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

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

-- Schema app\_schema

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

CREATE SCHEMA IF NOT EXISTS `app\_schema` DEFAULT CHARACTER SET utf8 ;

USE `app\_schema` ;

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

-- Table `app\_schema`.`area`

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

CREATE TABLE IF NOT EXISTS `app\_schema`.`area` (

`id` TINYINT NOT NULL,

`name` VARCHAR(45) NOT NULL,

PRIMARY KEY (`id`))

ENGINE = InnoDB;

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

-- Table `app\_schema`.`district`

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

CREATE TABLE IF NOT EXISTS `app\_schema`.`district` (

`id` TINYINT NOT NULL,

`name` VARCHAR(45) NOT NULL,

PRIMARY KEY (`id`))

ENGINE = InnoDB;

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

-- Table `app\_schema`.`residency\_type`

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

CREATE TABLE IF NOT EXISTS `app\_schema`.`residency\_type` (

`id` TINYINT NOT NULL AUTO\_INCREMENT,

`name` VARCHAR(45) NOT NULL,

PRIMARY KEY (`id`))

ENGINE = InnoDB;

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

-- Table `app\_schema`.`residency`

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

CREATE TABLE IF NOT EXISTS `app\_schema`.`residency` (

`id` SMALLINT NOT NULL AUTO\_INCREMENT,

`residency\_type\_id` TINYINT NOT NULL,

`name` VARCHAR(45) NOT NULL,

PRIMARY KEY (`id`),

INDEX `fk\_residency\_residency\_type1\_idx` (`residency\_type\_id` ASC) VISIBLE,

CONSTRAINT `fk\_residency\_residency\_type1`

FOREIGN KEY (`residency\_type\_id`)

REFERENCES `app\_schema`.`residency\_type` (`id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

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

-- Table `app\_schema`.`street\_type`

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

CREATE TABLE IF NOT EXISTS `app\_schema`.`street\_type` (

`id` TINYINT NOT NULL,

`name` VARCHAR(45) NOT NULL,

PRIMARY KEY (`id`))

ENGINE = InnoDB;

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

-- Table `app\_schema`.`street`

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

CREATE TABLE IF NOT EXISTS `app\_schema`.`street` (

`id` SMALLINT NOT NULL,

`street\_type\_id` TINYINT NOT NULL,

`name` VARCHAR(45) NOT NULL,

PRIMARY KEY (`id`),

INDEX `fk\_street\_street\_type\_idx` (`street\_type\_id` ASC) VISIBLE,

CONSTRAINT `fk\_street\_street\_type`

FOREIGN KEY (`street\_type\_id`)

REFERENCES `app\_schema`.`street\_type` (`id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

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

-- Table `app\_schema`.`country`

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

CREATE TABLE IF NOT EXISTS `app\_schema`.`country` (

`id` TINYINT NOT NULL AUTO\_INCREMENT,

`name` VARCHAR(45) NOT NULL,

`abbriviature` VARCHAR(45) NOT NULL,

PRIMARY KEY (`id`))

ENGINE = InnoDB;

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

-- Table `app\_schema`.`adress`

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

CREATE TABLE IF NOT EXISTS `app\_schema`.`adress` (

`id` MEDIUMINT NOT NULL,

`area\_id` TINYINT NOT NULL,

`district\_id` TINYINT NOT NULL,

`residency\_id` SMALLINT NOT NULL,

`street\_id` SMALLINT NOT NULL,

`country\_id` TINYINT NOT NULL,

`house` VARCHAR(45) NULL,

`flat` VARCHAR(45) NULL,

`house\_tag` VARCHAR(45) NULL,

`post\_index` MEDIUMINT NULL,

PRIMARY KEY (`id`),

INDEX `fk\_adress\_area1\_idx` (`area\_id` ASC) VISIBLE,

INDEX `fk\_adress\_district1\_idx` (`district\_id` ASC) VISIBLE,

INDEX `fk\_adress\_residency1\_idx` (`residency\_id` ASC) VISIBLE,

INDEX `fk\_adress\_street1\_idx` (`street\_id` ASC) VISIBLE,

INDEX `fk\_adress\_country1\_idx` (`country\_id` ASC) VISIBLE,

CONSTRAINT `fk\_adress\_area1`

FOREIGN KEY (`area\_id`)

REFERENCES `app\_schema`.`area` (`id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION,

CONSTRAINT `fk\_adress\_district1`

FOREIGN KEY (`district\_id`)

REFERENCES `app\_schema`.`district` (`id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION,

CONSTRAINT `fk\_adress\_residency1`

FOREIGN KEY (`residency\_id`)

REFERENCES `app\_schema`.`residency` (`id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION,

CONSTRAINT `fk\_adress\_street1`

FOREIGN KEY (`street\_id`)

REFERENCES `app\_schema`.`street` (`id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION,

CONSTRAINT `fk\_adress\_country1`

FOREIGN KEY (`country\_id`)

REFERENCES `app\_schema`.`country` (`id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

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

-- Table `app\_schema`.`secondname`

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

CREATE TABLE IF NOT EXISTS `app\_schema`.`secondname` (

`id` MEDIUMINT NOT NULL AUTO\_INCREMENT,

`secondname` VARCHAR(45) NOT NULL,

PRIMARY KEY (`id`))

ENGINE = InnoDB;

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

-- Table `app\_schema`.`firstname`

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

CREATE TABLE IF NOT EXISTS `app\_schema`.`firstname` (

`id` MEDIUMINT NOT NULL AUTO\_INCREMENT,

`firstname` VARCHAR(45) NOT NULL,

PRIMARY KEY (`id`))

ENGINE = InnoDB;

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

-- Table `app\_schema`.`patrynomic`

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

CREATE TABLE IF NOT EXISTS `app\_schema`.`patrynomic` (

`id` MEDIUMINT NOT NULL AUTO\_INCREMENT,

`patrynomic` VARCHAR(45) NOT NULL,

PRIMARY KEY (`id`))

ENGINE = InnoDB;

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

-- Table `app\_schema`.`passport`

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

CREATE TABLE IF NOT EXISTS `app\_schema`.`passport` (

`id` MEDIUMINT NOT NULL AUTO\_INCREMENT,

`adress\_id` MEDIUMINT NOT NULL,

`country\_id` TINYINT NOT NULL,

`series` CHAR(2) NOT NULL,

`sex` VARCHAR(45) NOT NULL,

`identification\_number` CHAR(14) NOT NULL,

`number` CHAR(8) NOT NULL,

`get\_date` DATE NOT NULL,

`end\_date` DATE NOT NULL,

`birthday` DATE NOT NULL,

`issue\_place` VARCHAR(45) NOT NULL,

`secondname\_id` MEDIUMINT NOT NULL,

`firstname\_id` MEDIUMINT NOT NULL,

`patrynomic\_id` MEDIUMINT NOT NULL,

PRIMARY KEY (`id`),

INDEX `fk\_passport\_adress1\_idx` (`adress\_id` ASC) VISIBLE,

INDEX `fk\_passport\_country1\_idx` (`country\_id` ASC) VISIBLE,

INDEX `fk\_passport\_secondname1\_idx` (`secondname\_id` ASC) VISIBLE,

INDEX `fk\_passport\_firstname1\_idx` (`firstname\_id` ASC) VISIBLE,

INDEX `fk\_passport\_patrynomic1\_idx` (`patrynomic\_id` ASC) VISIBLE,

CONSTRAINT `fk\_passport\_adress1`

FOREIGN KEY (`adress\_id`)

REFERENCES `app\_schema`.`adress` (`id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION,

CONSTRAINT `fk\_passport\_country1`

FOREIGN KEY (`country\_id`)

REFERENCES `app\_schema`.`country` (`id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION,

CONSTRAINT `fk\_passport\_secondname1`

FOREIGN KEY (`secondname\_id`)

REFERENCES `app\_schema`.`secondname` (`id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION,

CONSTRAINT `fk\_passport\_firstname1`

FOREIGN KEY (`firstname\_id`)

REFERENCES `app\_schema`.`firstname` (`id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION,

CONSTRAINT `fk\_passport\_patrynomic1`

FOREIGN KEY (`patrynomic\_id`)

REFERENCES `app\_schema`.`patrynomic` (`id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

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

-- Table `app\_schema`.`car\_model`

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

CREATE TABLE IF NOT EXISTS `app\_schema`.`car\_model` (

`id` TINYINT NOT NULL AUTO\_INCREMENT,

`name` VARCHAR(45) NOT NULL,

PRIMARY KEY (`id`))

ENGINE = InnoDB;

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

-- Table `app\_schema`.`car`

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

CREATE TABLE IF NOT EXISTS `app\_schema`.`car` (

`id` INT NOT NULL AUTO\_INCREMENT,

`color` VARCHAR(45) NOT NULL,

`number` VARCHAR(45) NOT NULL,

`car\_model\_id` TINYINT NOT NULL,

`capicity` TINYINT NOT NULL,

PRIMARY KEY (`id`),

INDEX `fk\_car\_car\_model1\_idx` (`car\_model\_id` ASC) VISIBLE,

CONSTRAINT `fk\_car\_car\_model1`

FOREIGN KEY (`car\_model\_id`)

REFERENCES `app\_schema`.`car\_model` (`id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

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

-- Table `app\_schema`.`role`

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

CREATE TABLE IF NOT EXISTS `app\_schema`.`role` (

`id` TINYINT NOT NULL,

`name` VARCHAR(45) NOT NULL,

PRIMARY KEY (`id`))

ENGINE = InnoDB;

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

-- Table `app\_schema`.`status`

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

CREATE TABLE IF NOT EXISTS `app\_schema`.`status` (

`id` TINYINT NOT NULL,

`name` VARCHAR(45) NOT NULL,

PRIMARY KEY (`id`))

ENGINE = InnoDB;

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

-- Table `app\_schema`.`client`

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

CREATE TABLE IF NOT EXISTS `app\_schema`.`client` (

`id` MEDIUMINT NOT NULL AUTO\_INCREMENT,

`email` VARCHAR(45) NULL,

`login` VARCHAR(45) NOT NULL,

`password` INT(8) NOT NULL,

`phoneNumber` VARCHAR(45) NULL,

`passport\_id` INT NOT NULL,

`adress\_id` MEDIUMINT NOT NULL,

`role\_id` TINYINT NOT NULL,

`status\_id` TINYINT NOT NULL,

`register\_date` TIMESTAMP NOT NULL,

PRIMARY KEY (`id`),

INDEX `fk\_client\_adress1\_idx` (`adress\_id` ASC) VISIBLE,

INDEX `fk\_client\_passport1\_idx` (`passport\_id` ASC) VISIBLE,

INDEX `fk\_client\_role1\_idx` (`role\_id` ASC) VISIBLE,

INDEX `fk\_client\_status1\_idx` (`status\_id` ASC) VISIBLE,

CONSTRAINT `fk\_client\_adress1`

FOREIGN KEY (`adress\_id`)

REFERENCES `app\_schema`.`adress` (`id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION,

CONSTRAINT `fk\_client\_passport1`

FOREIGN KEY (`passport\_id`)

REFERENCES `app\_schema`.`passport` (`id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION,

CONSTRAINT `fk\_client\_role1`

FOREIGN KEY (`role\_id`)

REFERENCES `app\_schema`.`role` (`id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION,

CONSTRAINT `fk\_client\_status1`

FOREIGN KEY (`status\_id`)

REFERENCES `app\_schema`.`status` (`id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

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

-- Table `app\_schema`.`tarif`

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

CREATE TABLE IF NOT EXISTS `app\_schema`.`tarif` (

`id` SMALLINT NOT NULL,

`name` VARCHAR(45) NOT NULL,

`description` VARCHAR(45) NULL,

`cost\_per\_hour` INT NOT NULL,

`cost\_per\_mile` INT NOT NULL,

PRIMARY KEY (`id`))

ENGINE = InnoDB;

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

-- Table `app\_schema`.`bank`

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

CREATE TABLE IF NOT EXISTS `app\_schema`.`bank` (

`id` TINYINT NOT NULL AUTO\_INCREMENT,

`name` VARCHAR(45) NOT NULL,

`adress\_id` MEDIUMINT NOT NULL,

PRIMARY KEY (`id`),

INDEX `fk\_bank\_adress1\_idx` (`adress\_id` ASC) VISIBLE,

CONSTRAINT `fk\_bank\_adress1`

FOREIGN KEY (`adress\_id`)

REFERENCES `app\_schema`.`adress` (`id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

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

-- Table `app\_schema`.`bank\_account`

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

CREATE TABLE IF NOT EXISTS `app\_schema`.`bank\_account` (

`id` MEDIUMINT NOT NULL AUTO\_INCREMENT,

`bank\_id` TINYINT NOT NULL,

`account\_number` VARCHAR(45) NOT NULL,

PRIMARY KEY (`id`),

INDEX `fk\_bank\_account\_bank1\_idx` (`bank\_id` ASC) VISIBLE,

CONSTRAINT `fk\_bank\_account\_bank1`

FOREIGN KEY (`bank\_id`)

REFERENCES `app\_schema`.`bank` (`id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

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

-- Table `app\_schema`.`payment`

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

CREATE TABLE IF NOT EXISTS `app\_schema`.`payment` (

`id` INT NOT NULL AUTO\_INCREMENT,

`date` DATE NOT NULL,

`time` TIME NOT NULL,

`name` VARCHAR(45) NOT NULL,

`sum` INT NOT NULL,

`bank\_account\_id` MEDIUMINT NOT NULL,

PRIMARY KEY (`id`),

INDEX `fk\_payment\_bank\_account1\_idx` (`bank\_account\_id` ASC) VISIBLE,

CONSTRAINT `fk\_payment\_bank\_account1`

FOREIGN KEY (`bank\_account\_id`)

REFERENCES `app\_schema`.`bank\_account` (`id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

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

-- Table `app\_schema`.`sales`

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

CREATE TABLE IF NOT EXISTS `app\_schema`.`sales` (

`id` INT NOT NULL AUTO\_INCREMENT,

`price` INT NOT NULL,

`start\_date` DATE NOT NULL,

`end\_date` DATE NOT NULL,

`client\_id` MEDIUMINT NOT NULL,

`payment\_id` INT NOT NULL,

`car\_id` INT NOT NULL,

PRIMARY KEY (`id`),

INDEX `fk\_order\_client1\_idx` (`client\_id` ASC) VISIBLE,

INDEX `fk\_order\_payment1\_idx` (`payment\_id` ASC) VISIBLE,

INDEX `fk\_sales\_car1\_idx` (`car\_id` ASC) VISIBLE,

CONSTRAINT `fk\_order\_client1`

FOREIGN KEY (`client\_id`)

REFERENCES `app\_schema`.`client` (`id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION,

CONSTRAINT `fk\_order\_payment1`

FOREIGN KEY (`payment\_id`)

REFERENCES `app\_schema`.`payment` (`id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION,

CONSTRAINT `fk\_sales\_car1`

FOREIGN KEY (`car\_id`)

REFERENCES `app\_schema`.`car` (`id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

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

-- Table `app\_schema`.`order\_status`

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

CREATE TABLE IF NOT EXISTS `app\_schema`.`order\_status` (

`id` TINYINT NOT NULL,

`name` VARCHAR(45) NOT NULL,

PRIMARY KEY (`id`))

ENGINE = InnoDB;

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

-- Table `app\_schema`.`company`

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

CREATE TABLE IF NOT EXISTS `app\_schema`.`company` (

`id` SMALLINT NOT NULL AUTO\_INCREMENT,

`bank\_account\_id` MEDIUMINT NOT NULL,

`adress\_id` MEDIUMINT NOT NULL,

`name` VARCHAR(45) NOT NULL,

PRIMARY KEY (`id`),

INDEX `fk\_company\_bank\_account1\_idx` (`bank\_account\_id` ASC) VISIBLE,

INDEX `fk\_company\_adress1\_idx` (`adress\_id` ASC) VISIBLE,

CONSTRAINT `fk\_company\_bank\_account1`

FOREIGN KEY (`bank\_account\_id`)

REFERENCES `app\_schema`.`bank\_account` (`id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION,

CONSTRAINT `fk\_company\_adress1`

FOREIGN KEY (`adress\_id`)

REFERENCES `app\_schema`.`adress` (`id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

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

-- Table `app\_schema`.`storage`

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

CREATE TABLE IF NOT EXISTS `app\_schema`.`storage` (

`id` INT NOT NULL AUTO\_INCREMENT,

`tarif\_id` SMALLINT NOT NULL,

`sales\_id` INT NOT NULL,

PRIMARY KEY (`id`),

INDEX `fk\_storage\_tarif1\_idx` (`tarif\_id` ASC) VISIBLE,

INDEX `fk\_storage\_sales1\_idx` (`sales\_id` ASC) VISIBLE,

CONSTRAINT `fk\_storage\_tarif1`

FOREIGN KEY (`tarif\_id`)

REFERENCES `app\_schema`.`tarif` (`id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION,

CONSTRAINT `fk\_storage\_sales1`

FOREIGN KEY (`sales\_id`)

REFERENCES `app\_schema`.`sales` (`id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

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

-- Table `app\_schema`.`product`

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

CREATE TABLE IF NOT EXISTS `app\_schema`.`product` (

`id` INT NOT NULL AUTO\_INCREMENT,

`company\_id` SMALLINT NOT NULL,

`storage\_id` INT NOT NULL,

`name` VARCHAR(45) NOT NULL,

PRIMARY KEY (`id`),

INDEX `fk\_product\_company1\_idx` (`company\_id` ASC) VISIBLE,

INDEX `fk\_product\_storage1\_idx` (`storage\_id` ASC) VISIBLE,

CONSTRAINT `fk\_product\_company1`

FOREIGN KEY (`company\_id`)

REFERENCES `app\_schema`.`company` (`id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION,

CONSTRAINT `fk\_product\_storage1`

FOREIGN KEY (`storage\_id`)

REFERENCES `app\_schema`.`storage` (`id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB

COMMENT = ' ';

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

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

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