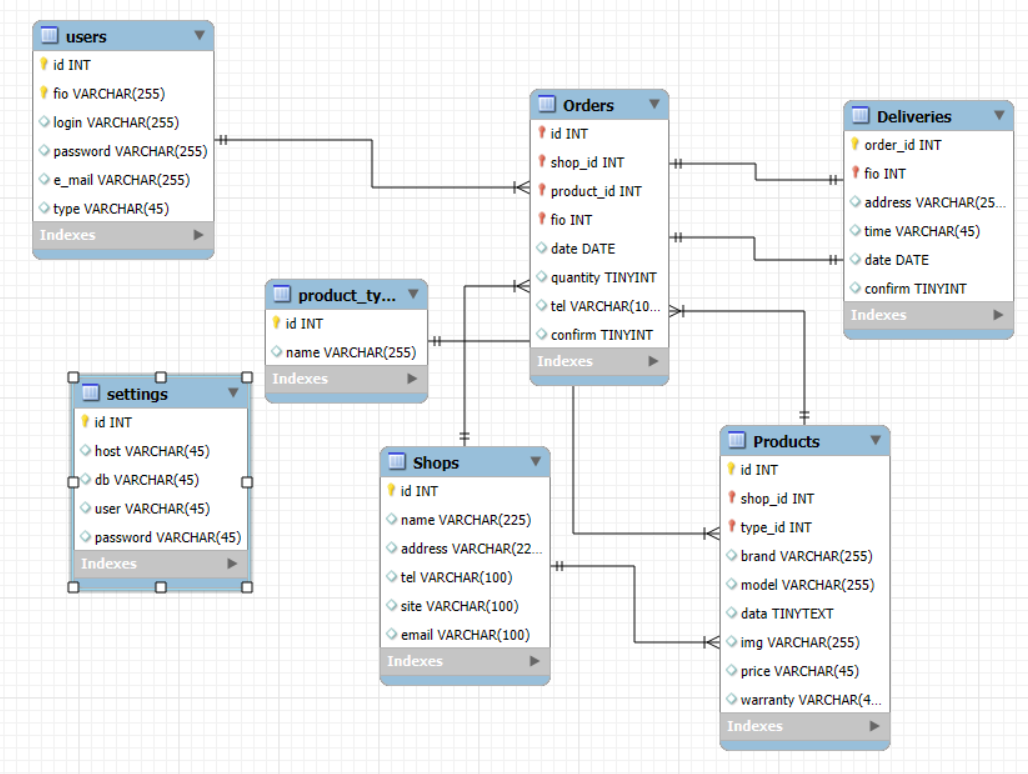
**Лабораторная работа № 2**

**Задание 2**

Схема



Запрос:

-- 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 mydb

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

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

USE `mydb` ;

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

-- Table `mydb`.`users`

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

CREATE TABLE IF NOT EXISTS `mydb`.`users` (

`id` INT NOT NULL AUTO\_INCREMENT,

`fio` VARCHAR(255) NOT NULL,

`login` VARCHAR(255) NULL,

`password` VARCHAR(255) NULL,

`e\_mail` VARCHAR(255) NULL,

`type` VARCHAR(45) NULL,

PRIMARY KEY (`id`, `fio`),

UNIQUE INDEX `id\_UNIQUE` (`id` ASC) VISIBLE,

UNIQUE INDEX `login\_UNIQUE` (`login` ASC) VISIBLE)

ENGINE = InnoDB;

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

-- Table `mydb`.`settings`

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

CREATE TABLE IF NOT EXISTS `mydb`.`settings` (

`id` INT NOT NULL AUTO\_INCREMENT,

`host` VARCHAR(45) NULL,

`db` VARCHAR(45) NULL,

`user` VARCHAR(45) NULL,

`password` VARCHAR(45) NULL,

PRIMARY KEY (`id`),

UNIQUE INDEX `id\_UNIQUE` (`id` ASC) VISIBLE)

ENGINE = InnoDB;

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

-- Table `mydb`.`Shops`

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

CREATE TABLE IF NOT EXISTS `mydb`.`Shops` (

`id` INT NOT NULL AUTO\_INCREMENT,

`name` VARCHAR(225) NULL,

`address` VARCHAR(225) NULL,

`tel` VARCHAR(100) NULL,

`site` VARCHAR(100) NULL,

`email` VARCHAR(100) NULL,

PRIMARY KEY (`id`),

UNIQUE INDEX `id\_UNIQUE` (`id` ASC) VISIBLE)

ENGINE = InnoDB;

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

-- Table `mydb`.`product\_type`

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

CREATE TABLE IF NOT EXISTS `mydb`.`product\_type` (

`id` INT NOT NULL AUTO\_INCREMENT,

`name` VARCHAR(255) NULL,

PRIMARY KEY (`id`),

UNIQUE INDEX `id\_UNIQUE` (`id` ASC) VISIBLE)

ENGINE = InnoDB;

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

-- Table `mydb`.`Products`

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

CREATE TABLE IF NOT EXISTS `mydb`.`Products` (

`id` INT NOT NULL AUTO\_INCREMENT,

`shop\_id` INT NOT NULL,

`type\_id` INT NOT NULL,

`brand` VARCHAR(255) NULL,

`model` VARCHAR(255) NULL,

`data` TINYTEXT NULL,

`img` VARCHAR(255) NULL,

`price` VARCHAR(45) NULL,

`warranty` VARCHAR(45) NULL,

PRIMARY KEY (`id`, `shop\_id`, `type\_id`),

UNIQUE INDEX `id\_UNIQUE` (`id` ASC) VISIBLE,

INDEX `shop\_to\_products\_idx` (`shop\_id` ASC) VISIBLE,

INDEX `product\_to\_type\_idx` (`type\_id` ASC) VISIBLE,

CONSTRAINT `shop\_to\_products`

FOREIGN KEY (`shop\_id`)

REFERENCES `mydb`.`Shops` (`id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION,

CONSTRAINT `product\_to\_type`

FOREIGN KEY (`type\_id`)

REFERENCES `mydb`.`product\_type` (`id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

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

-- Table `mydb`.`Deliveries`

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

CREATE TABLE IF NOT EXISTS `mydb`.`Deliveries` (

`order\_id` INT NOT NULL AUTO\_INCREMENT,

`fio` INT NOT NULL,

`address` VARCHAR(255) NULL,

`time` VARCHAR(45) NULL,

`date` DATE NULL,

`confirm` TINYINT NULL,

PRIMARY KEY (`order\_id`, `fio`),

UNIQUE INDEX `order\_id\_UNIQUE` (`order\_id` ASC) VISIBLE,

INDEX `deliveries\_to\_orders\_idx` (`fio` ASC) VISIBLE,

CONSTRAINT `deliveries\_to\_orders`

FOREIGN KEY (`fio`)

REFERENCES `mydb`.`Orders` (`fio`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

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

-- Table `mydb`.`Orders`

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

CREATE TABLE IF NOT EXISTS `mydb`.`Orders` (

`id` INT NOT NULL AUTO\_INCREMENT,

`shop\_id` INT NOT NULL,

`product\_id` INT NOT NULL,

`fio` INT NOT NULL,

`date` DATE NULL,

`quantity` TINYINT NULL,

`tel` VARCHAR(100) NULL,

`confirm` TINYINT NULL,

PRIMARY KEY (`id`, `shop\_id`, `product\_id`, `fio`),

UNIQUE INDEX `id\_UNIQUE` (`id` ASC) VISIBLE,

INDEX `orders\_to\_users\_idx` (`fio` ASC) VISIBLE,

INDEX `orders\_to\_products\_idx` (`product\_id` ASC) VISIBLE,

INDEX `orders\_to\_shops\_idx` (`shop\_id` ASC) VISIBLE,

CONSTRAINT `orders\_to\_users`

FOREIGN KEY (`fio`)

REFERENCES `mydb`.`users` (`id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION,

CONSTRAINT `orders\_to\_shops`

FOREIGN KEY (`shop\_id`)

REFERENCES `mydb`.`Shops` (`id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION,

CONSTRAINT `orders\_to\_products`

FOREIGN KEY (`product\_id`)

REFERENCES `mydb`.`Products` (`id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION,

CONSTRAINT `orders\_to\_deliveries`

FOREIGN KEY (`id`)

REFERENCES `mydb`.`Deliveries` (`order\_id`)

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;

Фрагмент запроса, касающийся создания и настройки таблицы *Orders*:

CREATE TABLE IF NOT EXISTS `mydb`.`Orders` (

`id` INT NOT NULL AUTO\_INCREMENT,

`shop\_id` INT NOT NULL,

`product\_id` INT NOT NULL,

`fio` INT NOT NULL,

`date` DATE NULL,

`quantity` TINYINT NULL,

`tel` VARCHAR(100) NULL,

`confirm` TINYINT NULL,

PRIMARY KEY (`id`, `shop\_id`, `product\_id`, `fio`),

UNIQUE INDEX `id\_UNIQUE` (`id` ASC) VISIBLE,

INDEX `orders\_to\_users\_idx` (`fio` ASC) VISIBLE,

INDEX `orders\_to\_products\_idx` (`product\_id` ASC) VISIBLE,

INDEX `orders\_to\_shops\_idx` (`shop\_id` ASC) VISIBLE,

CONSTRAINT `orders\_to\_users`

FOREIGN KEY (`fio`)

REFERENCES `mydb`.`users` (`id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION,

CONSTRAINT `orders\_to\_shops`

FOREIGN KEY (`shop\_id`)

REFERENCES `mydb`.`Shops` (`id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION,

CONSTRAINT `orders\_to\_products`

FOREIGN KEY (`product\_id`)

REFERENCES `mydb`.`Products` (`id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION,

CONSTRAINT `orders\_to\_deliveries`

FOREIGN KEY (`id`)

REFERENCES `mydb`.`Deliveries` (`order\_id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB

**Задание 3**

Операция не получилось – ошибка

