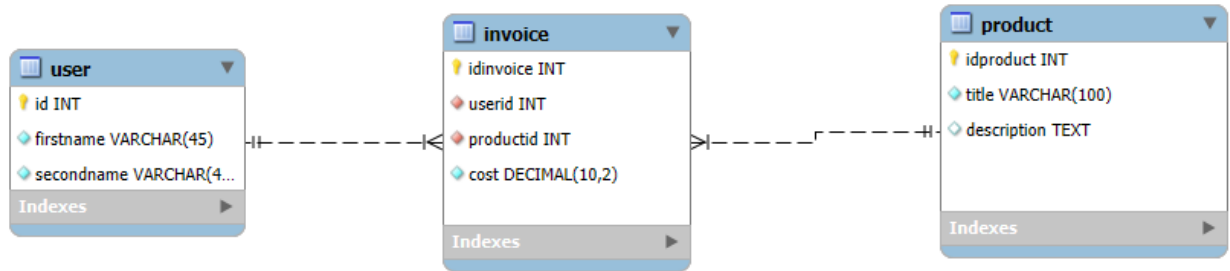


Лабораторная работа №2: Схема данных. EER-диаграмма.

Задание №1:

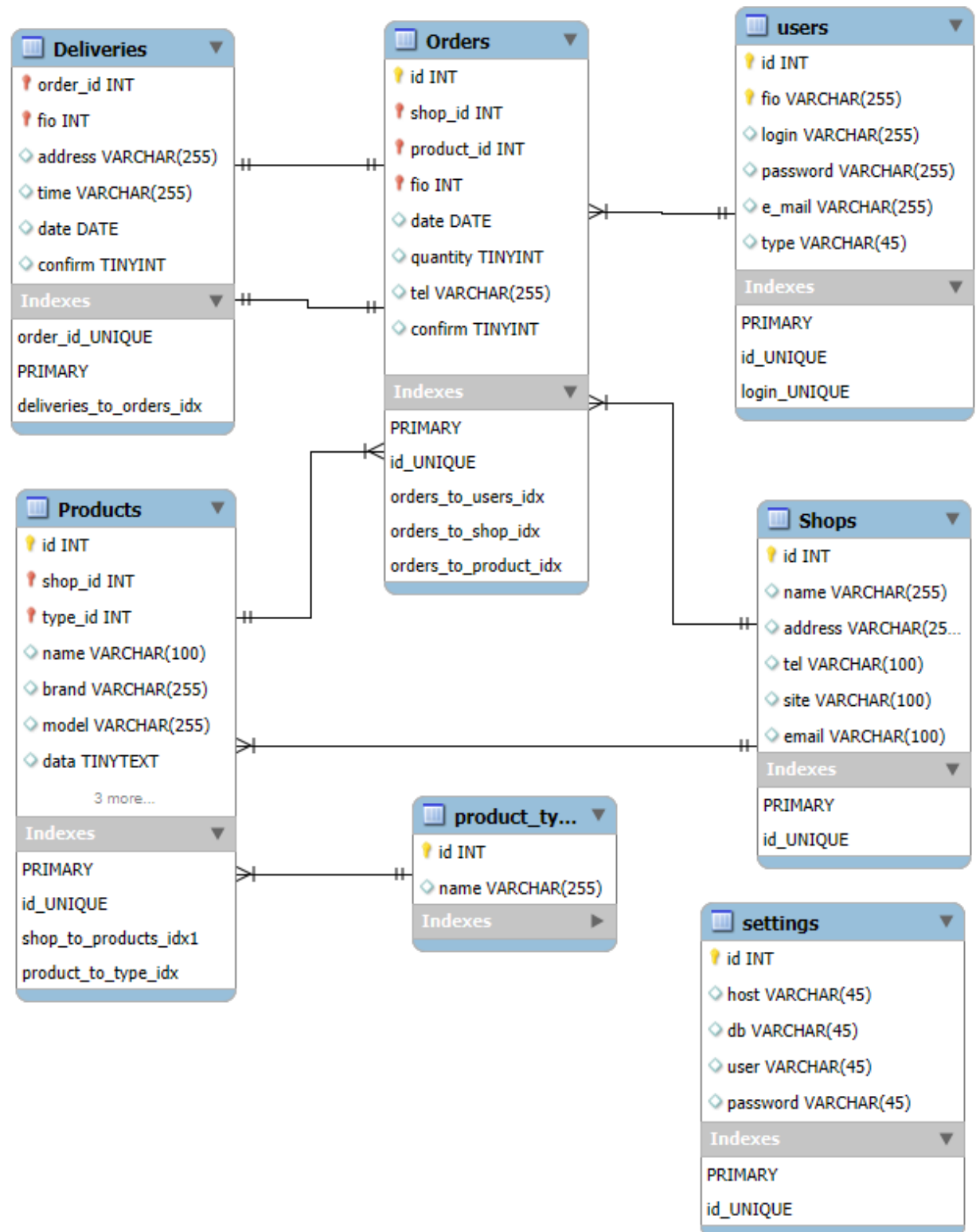


Ссылка на запрос:

<https://gist.github.com/A1adriel/0ea69e7abe454de1ab5a6796d80d6f20>

```
CREATE TABLE IF NOT EXISTS `firstModel`.`invoice` (  
  `idinvoice` INT NOT NULL AUTO_INCREMENT,  
  `userid` INT NOT NULL,  
  `productid` INT NOT NULL,  
  `cost` DECIMAL(10,2) NOT NULL,  
  PRIMARY KEY (`idinvoice`),  
  INDEX `user_idx` (`userid` ASC) VISIBLE,  
  INDEX `prod_idx` (`productid` ASC) VISIBLE,  
  CONSTRAINT `user`  
    FOREIGN KEY (`userid`)  
      REFERENCES `firstModel`.`user` (`id`)  
      ON DELETE CASCADE  
      ON UPDATE CASCADE,  
  CONSTRAINT `prod`  
    FOREIGN KEY (`productid`)  
      REFERENCES `firstModel`.`product` (`idproduct`)  
      ON DELETE CASCADE  
      ON UPDATE CASCADE)  
ENGINE = InnoDB
```

Задание №2:



Ссылка на запрос:

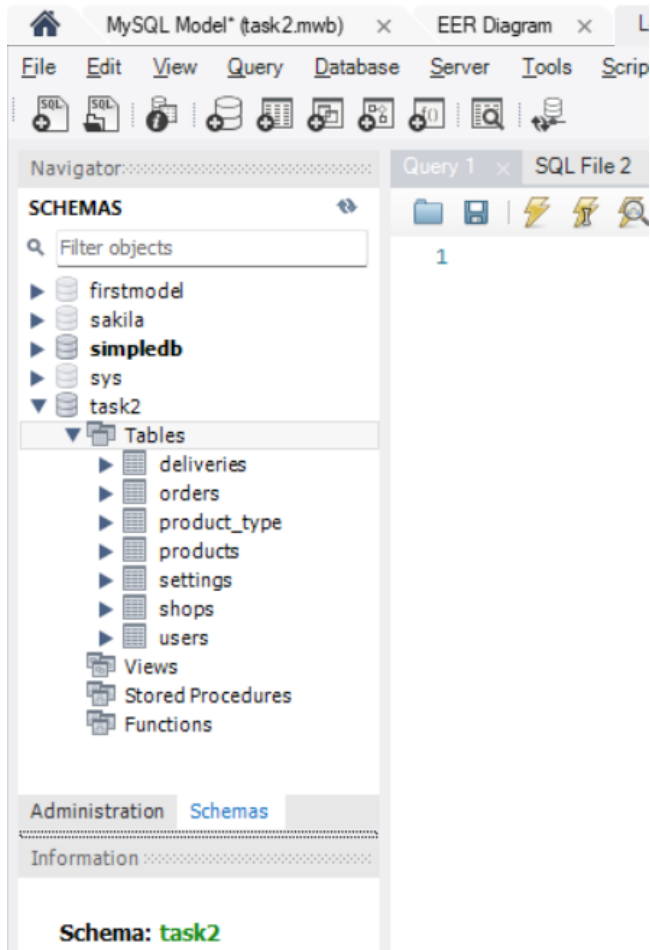
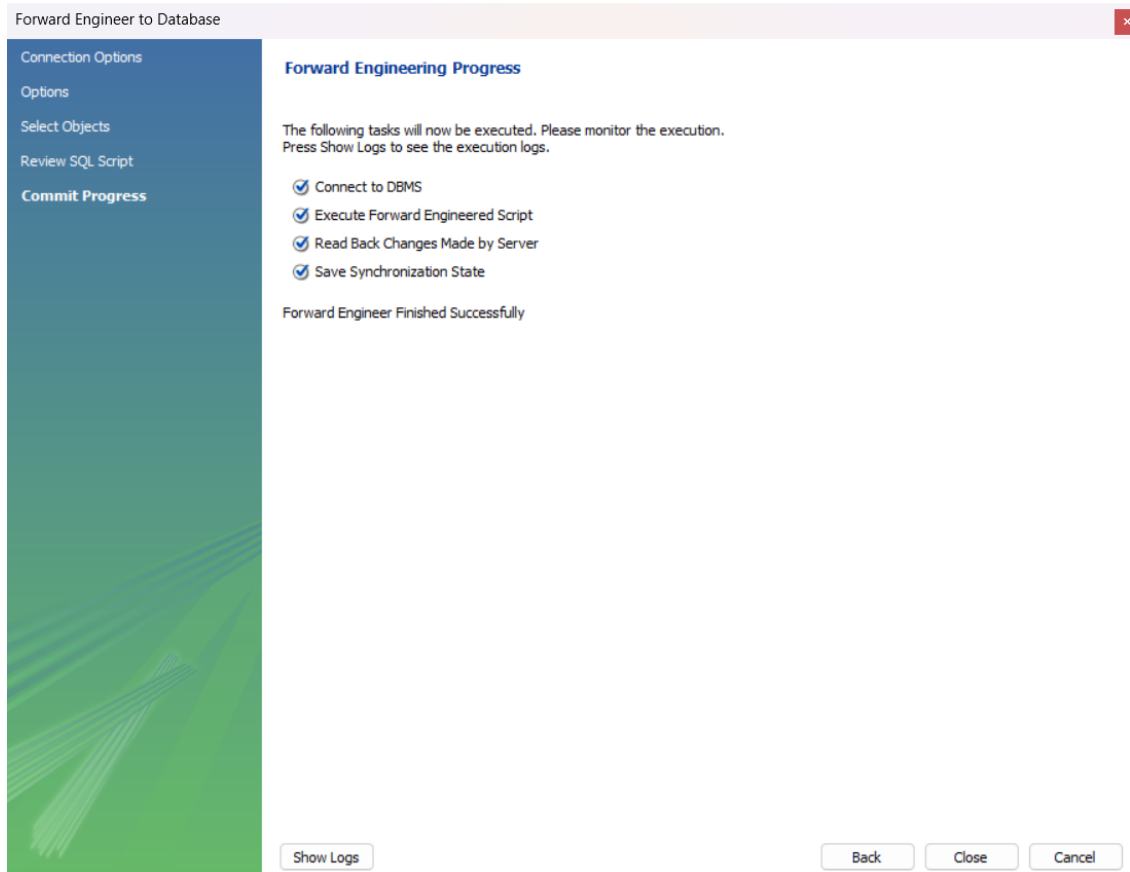
<https://gist.github.com/A1adriel/9d9f9810fd9d9f17c38d2c435c4ef378>

```

CREATE TABLE IF NOT EXISTS `task2`.`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(255) 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_shop_idx` (`shop_id` ASC) VISIBLE,
  INDEX `orders_to_product_idx` (`product_id` ASC) VISIBLE,
  CONSTRAINT `orders_to_users`
    FOREIGN KEY (`fio`)
    REFERENCES `task2`.`users` (`id`)
    ON DELETE NO ACTION
    ON UPDATE NO ACTION,
  CONSTRAINT `orders_to_shop`
    FOREIGN KEY (`shop_id`)
    REFERENCES `task2`.`Shops` (`id`)
    ON DELETE NO ACTION
    ON UPDATE NO ACTION,
  CONSTRAINT `orders_to_product`
    FOREIGN KEY (`product_id`)
    REFERENCES `task2`.`Products` (`id`)
    ON DELETE NO ACTION
    ON UPDATE NO ACTION)
ENGINE = InnoDB

```

Задание №3:



Задание №4:

Navigator

SCHEMAS

Filter objects

Tables

- deliveries
- orders
- product_type
- products
- settings
- shops
- users

Views

Administration Schemas

Information

No object selected

product_type users shops products

1

SELECT * FROM task2.users;

Result Grid

	id	fio	login	password	e_mail	type
	1	Ast...	s2noff	123	s2nof...	1
	2	Sam...	alad...	321	aladir...	2
*	NULL	NULL	NULL	NULL	NULL	NULL

Navigator

SCHEMAS

Filter objects

Tables

- deliveries
- orders
- product_type
- products
- settings
- shops
- users

Views

Administration Schemas

Information

No object selected

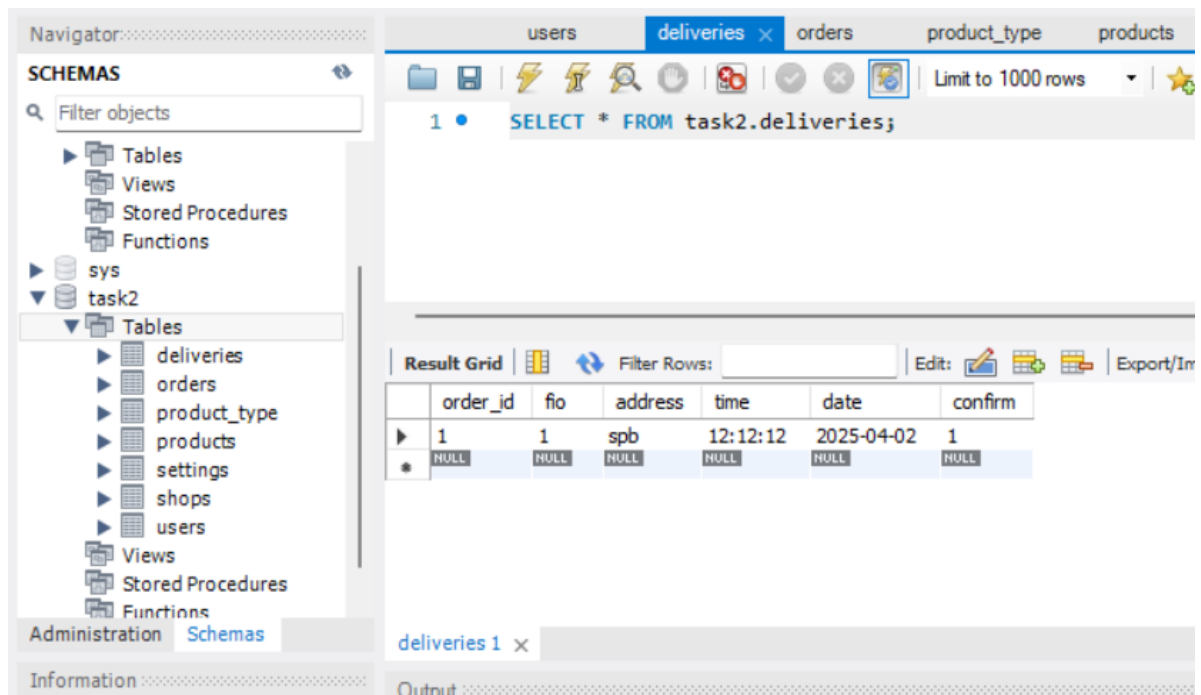
product_type users

1

SELECT * FROM

Result Grid

	id	name
	1	Milk
	2	Bread
	3	Sugar
*	NULL	NULL



В результате удаления из таблицы «users» одной строки, в таблице «orders» также пропала строка, в которой была информация о заказе пользователя, чьи данные мы удалили.