Лабораторная работа №3

Цель: познакомится с OrientDB. Создать тестовую базу данных, создать 2 коллекции, внести 5 записей, связать коллекции.

Ход работы:

Создали базу данных TEST (рис. 1)

```
orientdb {server=remote:localhost/data/db_orient/test}> CREATE DATABASE remote:localhost/data/db_orient/test root 1234 ploca l

Creating database [remote:localhost/data/db_orient/test] using the storage type [PLOCAL]...

Database created successfully.

Current database is: remote:localhost/data/db_orient/test
orientdb {db=test}> ____
```

Рис. 1

Создали вершины Product и Shop через команду CREATE CLASS <name>. Добавили поле name в каждую из коллекций через команду CREATE Property <name_class>.<name> <type>. Внесли по 5 записей в каждую коллекцию через команду CREATE VERTEX < name_class > set name = <name>. Результат на рис. 2-3.

```
orientdb {db=test}> CREATE CLASS Product extends V
Class created successfully.
orientdb {db=test}> CREATE CLASS Shop extends V
Class created successfully.
orientdb {db=test}> CREATE Property Shop.name STRING
Property created successfully.
orientdb {db=test}> CREATE Property PRODUCT.name STRING
Property created successfully.
orientdb {db=test}> CREATE VERTEX Product set name = 'Book'
Created vertex '[Product#40:0{name:Book} v1]' in 0,005000 sec(s).
orientdb {db=test}> CREATE VERTEX Product set name = 'Notebook'
Created vertex '[Product#41:0{name:Notebook} v1]' in 0,001000 sec(s).
orientdb {db=test}> CREATE VERTEX Product set name = 'Pen'
Created vertex '[Product#42:0{name:Pen} v1]' in 0,001000 sec(s).
orientdb {db=test}> CREATE VERTEX Product set name = 'n'
Created vertex '[Product#43:0{name:n} v1]' in 0,002000 sec(s).
orientdb {db=test}> CREATE VERTEX Product set name = 'Ruler'
Created vertex '[Product#44:0{name:Ruler} v1]' in 0,002000 sec(s).
orientdb {db=test}> CREATE VERTEX Product set name = 'Eraser'
```

Рис. 2

```
crientdb {db=test}> CREATE VERTEX Shop set name = 'Shop_1'
Created vertex '[Shop#46:0{name:Shop_1} v1]' in 0,001000 sec(s).
crientdb {db=test}> CREATE VERTEX Shop set name = 'Shop_2'
Created vertex '[Shop#47:0{name:Shop_2} v1]' in 0,001000 sec(s).
crientdb {db=test}> CREATE VERTEX Shop set name = 'Shop_3'
Created vertex '[Shop#48:0{name:Shop_3} v1]' in 0,001000 sec(s).
crientdb {db=test}> CREATE VERTEX Shop set name = 'Shop_4'
Created vertex '[Shop#49:0{name:Shop_4} v1]' in 0,002000 sec(s).
crientdb {db=test}> CREATE VERTEX Shop set name = 'Shop_5'
Created vertex '[Shop#50:0{name:Shop_5} v1]' in 0,002000 sec(s).
```

Рис. 3

Создали связь между некоторыми записями (рис. 4)

Рис. 4

Все записи между таблицами на рис. 5

```
orientdb {db=test}> select from V
        |@RID |@CLASS |name
                                             |out_Connection|in_Connection|
        |#40:0|Product|Book
|#41:0|Product|Notebook
|#42:0|Product|Pen
                                               [#53:0]
         |#43:0|Product|n
|#44:0|Product|Ruler
                                               [#54:0]
         |#45:0|Product|Eraser
|#46:0|Shop |Shop_1
                                Shop_1
                                                                       [#52:0]
                               |Shop_1
|Shop_2
|Shop_3
|Shop_4
|Shop_5
         |#47:0|Shop
|#48:0|Shop
                                                                        [#53:0]
                                                                       [#54:0]
         |#49:0|Shop
|#50:0|Shop
11 item(s) found. Query executed in 0.007 sec(s).
orientdb {db=test}>
```

Рис. 5