

Мелехин Александр Кс-30 Вариант 9 Лабораторная работа 7

Задание 1

Задание: выполнить команды *db.help()*, *db.stats()*, в mongosh.

Результат

```
test> db.help()
Database Class:
  getMongo           Returns the current database connection
  getName            Returns the name of the DB
  getCollectionNames Returns an array containing the names of all collections in the current database.
  getCollectionInfos Returns an array of documents with collection information, i.e. collection name and options, for the current database.
  runCommand         Runs an arbitrary command on the database.
  adminCommand       Runs an arbitrary command against the admin database.
  aggregate          Runs a specified admin/diagnostic pipeline which does not require an underlying collection.
  getSiblingDB       Returns another database without modifying the db variable in the shell environment.
  getCollection      Returns a collection or a view object that is functionally equivalent to using the db.<collectionName>.
  dropDatabase       Removes the current database, deleting the associated data files.
  createUser         Creates a new user for the database on which the method is run. db.createUser() returns a duplicate user error if the user already exists on the database.
  updateUser         Updates the user's profile on the database on which you run the method. An update to a field completely replaces the previous field's values. This includes updates to the user's roles array.
  changeUserPassword Updates a user's password. Run the method in the database where the user is defined, i.e. the database you created the user.
  logout            Ends the current authentication session. This function has no effect if the current session is not authenticated.
  dropUser          Removes the user from the current database.
  dropAllUsers       Removes all users from the current database.
  auth              Allows a user to authenticate to the database from within the shell.
  grantRolesToUser  Grants additional roles to a user.
  revokeRolesFromUser Removes a one or more roles from a user on the current database.
  getUser           Returns user information for a specified user. Run this method on the user's database. The user must exist on the database on which the method runs.
  getUsers          Returns information for all the users in the database.
  createCollection  Create new collection
  createEncryptedCollection Creates a new collection with a list of encrypted fields each with unique and auto-created data encryption keys (DEKs). This is a utility function that internally utilises ClientEncryption.cn
```

```
Melekhin ks30> db.stats
[Function: stats] AsyncFunction {
  apiVersions: [ 0, 0 ],
  returnsPromise: true,
  serverVersions: [ '0.0.0', '999.999.999' ],
  topologies: [ 'ReplSet', 'Sharded', 'LoadBalanced', 'Standalone' ],
  returnType: { type: 'unknown', attributes: {} },
  deprecated: false,
  platforms: [ 'Compass', 'Browser', 'CLI' ],
  isDirectShellCommand: false,
  acceptsRawInput: false,
  shellCommandCompleter: undefined,
  help: [Function (anonymous)] Help
}
```

Задание 2

Задание: Создайте БД в соответствии с вариантом задания Лабораторной работы №1.

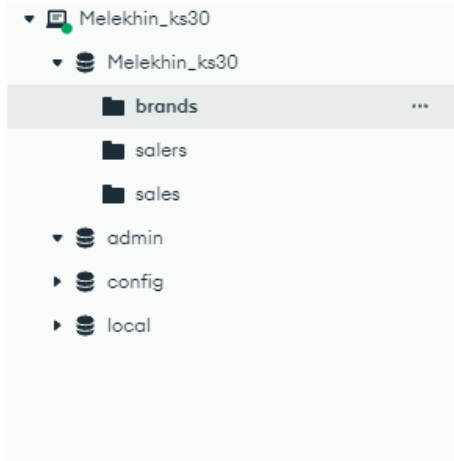
Результат

```
test> use Melekhin_ks30  
switched to db Melekhin_ks30  
Melekhin_ks30> _
```

Задание 3

Задание: Создайте коллекцию, вставив в нее документы в соответствии со строками таблицы вашего варианта задания Лабораторной работы №1

Результат



ADD DATA

EXPORT DATA

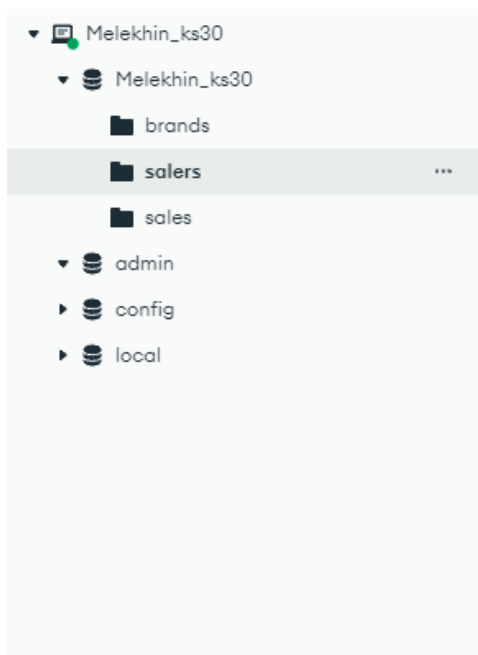
UPDATE

DELETE

`_id: ObjectId('674ca15ed03e418adf893bf8')`
`brand_name: "Леново"`

`_id: ObjectId('674ca1e8e2efd9418d2d1f0e')`
`brand_name: "Самсунг"`

`_id: ObjectId('674cabcce2efd9418d2d1f2e')`
`brand_name: "Сони"`



ADD DATA

EXPORT DATA

UPDATE

DELETE

`_id: ObjectId('674ca499e2efd9418d2d1f19')`
`saler_name: "Иванов"`
`saler_sex: "Мужской"`
`saler_age: 20`

`_id: ObjectId('674ca536e2efd9418d2d1f1b')`
`saler_name: "Петрова"`
`saler_sex: "Женский"`
`saler_age: 19`

`_id: ObjectId('674ca553e2efd9418d2d1f1d')`
`saler_name: "Сидорова"`
`saler_sex: "Женский"`
`saler_age: 21`

▼ Melekhin_ks30

▼ Melekhin_ks30

brands

salers

sales

▼ admin

▸ config

▸ local

ADD DATA

EXPORT DATA

UPDATE

`_id: ObjectId('674ca7dde2efd9418d2d1f20')`
`sale_date: "2005-01-03"`
`brand: ObjectId('674ca1e8e2efd9418d2d1f0e')`
`price: 12000`
`sale_count: 5`
`saler: ObjectId('674ca499e2efd9418d2d1f19')`

`_id: ObjectId('674ca7f9e2efd9418d2d1f22')`
`sale_date: "2005-01-15"`
`brand: ObjectId('674ca15ed03e418adf893bf8')`
`price: 8000`
`sale_count: 4`
`saler: ObjectId('674ca536e2efd9418d2d1f1b')`

`_id: ObjectId('674ca90ce2efd9418d2d1f25')`
`sale_date: "2005-02-02"`
`brand: ObjectId('674ca1e8e2efd9418d2d1f0e')`
`price: 25000`
`sale_count: 3`
`saler: ObjectId('674ca553e2efd9418d2d1f1d')`

`_id: ObjectId('674ca94ae2efd9418d2d1f27')`
`sale_date: "2005-02-14"`
`brand: ObjectId('674cabcce2efd9418d2d1f2e')`
`price: 11000`
`sale_count: 3`
`saler: ObjectId('674ca553e2efd9418d2d1f1d')`

`_id: ObjectId('674ca969e2efd9418d2d1f29')`
`sale_date: "2005-04-04"`
`brand: ObjectId('674ca1e8e2efd9418d2d1f0e')`
`price: 19000`
`sale_count: 4`
`saler: ObjectId('674ca536e2efd9418d2d1f1b')`

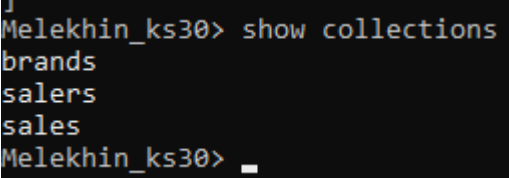
Задание 4

Задание: выведете список текущих коллекций вашей БД.

Код для задания:

show collections

Результат



```
Melekhin_ks30> show collections
brands
salers
sales
Melekhin_ks30> _
```

Задание 5

Задание: выведите содержимое созданной коллекции.

код для задания:

```
db.salers.find()
db.brands.find()
db.sales.find()
```

Результат

```
Melekhin_ks30> db.salers.find()
[
  {
    _id: ObjectId('674ca499e2efd9418d2d1f19'),
    saler_name: 'Иванов',
    saler_sex: 'Мужской',
    saler_age: 20
  },
  {
    _id: ObjectId('674ca536e2efd9418d2d1f1b'),
    saler_name: 'Петрова',
    saler_sex: 'Женский',
    saler_age: 19
  },
  {
    _id: ObjectId('674ca553e2efd9418d2d1f1d'),
    saler_name: 'Сидорова',
    saler_sex: 'Женский',
    saler_age: 21
  }
]
```

```
Melekhin_ks30> db.brands.find()
[
  { _id: ObjectId('674ca15ed03e418adf893bf8'), brand_name: 'Леново' },
  { _id: ObjectId('674ca1e8e2efd9418d2d1f0e'), brand_name: 'Самсунг' },
  { _id: ObjectId('674cabce2efd9418d2d1f2e'), brand_name: 'Сони' }
]
```

```
Melekhin_ks30> db.sales.find()
[
  {
    _id: ObjectId('674ca7dde2efd9418d2d1f20'),
    sale_date: '2005-01-03',
    brand: ObjectId('674ca1e8e2efd9418d2d1f0e'),
    price: 12000,
    sale_count: 5,
    saler: ObjectId('674ca499e2efd9418d2d1f19')
  },
  {
    _id: ObjectId('674ca7f9e2efd9418d2d1f22'),
    sale_date: '2005-01-15',
    brand: ObjectId('674ca15ed03e418adf893bf8'),
    price: 8000,
    sale_count: 4,
    saler: ObjectId('674ca536e2efd9418d2d1f1b')
  },
  {
    _id: ObjectId('674ca90ce2efd9418d2d1f25'),
    sale_date: '2005-02-02',
    brand: ObjectId('674ca1e8e2efd9418d2d1f0e'),
    price: 25000,
    sale_count: 3,
    saler: ObjectId('674ca553e2efd9418d2d1f1d')
  },
  {
    _id: ObjectId('674ca94ae2efd9418d2d1f27'),
    sale_date: '2005-02-14',
    brand: ObjectId('674cabcce2efd9418d2d1f2e'),
    price: 11000,
    sale_count: 3,
    saler: ObjectId('674ca553e2efd9418d2d1f1d')
  },
  {
    _id: ObjectId('674ca969e2efd9418d2d1f29'),
    sale_date: '2005-04-04',
    brand: ObjectId('674ca1e8e2efd9418d2d1f0e'),
    price: 19000,
    sale_count: 4,
    saler: ObjectId('674ca536e2efd9418d2d1f1b')
  },
  {
    _id: ObjectId('674ca993e2efd9418d2d1f2b'),
    sale_date: '2005-03-02',
    brand: ObjectId('674ca15ed03e418adf893bf8'),
    price: 10000,
    sale_count: 5,
    saler: ObjectId('674ca499e2efd9418d2d1f19')
  }
]
Melekhin_ks30> _
```