Docker compose up

PS D:\desktop\BPOC\lab3> docker compose up -d

[+] Running 26/26

- shard03-b Pulled
25.0s

  - b7a3e92f19af Pull complete
9.9s

  - ebc52c729dca Pull complete
10.4s

- configsvr02 Pulled
25.1s

- shard01-a Pulled
25.1s

- shard01-c Pulled
25.1s

  - da8ef40b9eca Pull complete
9.3s

- router01 Pulled
25.1s

  - 58690f9b18fc Pull complete
9.1s

- configsvr01 Pulled
25.0s

- shard03-c Pulled
25.1s

- shard03-a Pulled
25.1s

  - b51569e7c507 Pull complete
9.2s

- shard02-a Pulled
25.1s

  - a0dc15b16822 Pull complete
9.5s

  - 6aa1ba699846 Pull complete
10.3s

```
 -  s h a r d 0 1 - b   P u l l e d
25. 1s

  - 22b97876323d Pull complete
18. 7s

 - configsvr03 Pulled
25. 1s

  - fb15d46c38dc Pull complete
9. 4s

 - shard02-c Pulled
25. 0s

 - shard02-b Pulled
25. 1s

  - ed4a7b863fa1 Pull complete
10. 1s

  - a58b030ea8e4 Pull complete
10. 2s

  - 52e8c440d4d6 Pull complete
18. 6s

 - router02 Pulled
25. 1s

[+] Running 15/15

 - Network lab3_default      Created
0. 8s

 - Container router-01      Started
7. 2s

 - Container shard-02-node-b Started
5. 6s

 - Container shard-03-node-b Started
5. 6s

 - Container shard-01-node-a Started
9. 4s

 - Container mongo-config-01 Started
10. 8s

 - Container mongo-config-03 Started
13. 4s
```

- Container shard-03-node-c   Started 11.6s

- Container shard-03-node-a Started 10.5s

- Container shard-02-node-c Started 6.8s

- Container router-02   Started 12.9s

- Container shard-02-node-a Started 14.5s

- Container mongo-config-02 Started 8.1s

- Container shard-01-node-c Started 4.7s

- Container shard-01-node-b Started

sudo sh init_rs.sh

PS D:\desktop\BPOC\lab3> docker-compose exec configsvr01 sh -c " mongo < /scripts/init-configserver.js"

MongoDB shell version v4.0.28

connecting to: mongodb://127.0.0.1:27017/?gssapiServiceName=mongodb

Implicit session: session { "id" : UUID("d6608b9e-15fa-4412-a87c-56e009e54be4") }

MongoDB server version: 4.0.28

```
{
    "operationTime" : Timestamp(1671368875, 2),
    "ok" : 0,
    "errmsg" : "already initialized",
    "code" : 23,
    "codeName" : "AlreadyInitialized",
    "$gleStats" : {
        "lastOpTime" : Timestamp(0, 0),
        "electionId" : ObjectId("7fffffff0000000000000001")
    },
    "$clusterTime" : {
        "clusterTime" : Timestamp(1671368875, 2),
        "signature" : {
            "hash" : BinData(0,"AAAAAAAAAAAAAAAAAAAAAAAAAAA="),
            "keyId" : NumberLong(0)
        }
    }
}
bye
```

PS D:\desktop\BPOC\lab3>

PS D:\desktop\BPOC\lab3> docker-compose exec shard01-a sh -c " mongo < /scripts/init-shard01.js"

MongoDB shell version v4.0.28

connecting to: mongodb://127.0.0.1:27017/?gssapiServiceName=mongodb

Implicit session: session { "id" : UUID(" 17b2b4c2-0fc4-40da-9b0f-6f3c8d03d954") }

MongoDB server version: 4.0.28

```
{
    "operationTime" : Timestamp(1671368874, 1),
    "ok" : 0,
    "errmsg" : "already initialized",
    "codeName" : "AlreadyInitialized",
    "$clusterTime" : {
        "clusterTime" : Timestamp(1671368874, 1),
        "signature" : {
            "hash" : BinData(0,"AAAAAAAAAAAAAAAAAAAAAAAAAAA="),
            "keyId" : NumberLong(0)
        }
    }
}
```
bye

PS D:\desktop\BPOC\lab3> docker-compose exec shard02-a sh -c " mongo < /scripts/init-shard02.js"

MongoDB shell version v4.0.28

connecting to: mongodb://127.0.0.1:27017/?gssapiServiceName=mongodb

Implicit session: session { "id" : UUID("6172740b-0733-411e-a8cc-dce274ddb6f7") }

MongoDB server version: 4.0.28

```
{
    "operationTime" : Timestamp(1671368875, 1),
    "ok" : 0,
    "errmsg" : "already initialized",
    "code" : 23,
    "codeName" : "AlreadyInitialized",
    "$clusterTime" : {
        "clusterTime" : Timestamp(1671368875, 1),
        "signature" : {
```

```
                "hash" : BinData(0,"AAAAAAAAAAAAAAAAAAAAAAAAAAA=" ),
            "keyId" : NumberLong(0)
        }
    }
}
bye
PS D:\desktop\BPOC\lab3> docker-compose exec shard03-a sh -c " mongo < /scripts/init-shard03.js"
MongoDB shell version v4.0.28
connecting to: mongodb://127.0.0.1:27017/?gssapiServiceName=mongodb
Implicit session: session { "id" : UUID("a863141e-6bda-4d08-8b0a-fcd305b34709") }
MongoDB server version: 4.0.28
{
    "operationTime" : Timestamp(1671368881, 1),
    "ok" : 0,
    "errmsg" : "already initialized",
    "code" : 23,
    "codeName" : "AlreadyInitialized",
    "$clusterTime" : {
        "clusterTime" : Timestamp(1671368881, 1),
        "signature" : {
            "hash" : BinData(0,"AAAAAAAAAAAAAAAAAAAAAAAAAAA="),
            "keyId" : NumberLong(0)
        }
    }
}
bye
```

docker-compose exec router01 sh -c "mongo < .scripts/init-router.js"

docker-compose exec router01 sh -c " mongo < /scripts/init-router.js"

MongoDB shell version v4.0.28

connecting to: mongodb://127.0.0.1:27017/?gssapiServiceName=mongodb

Implicit session: session { "id" : UUID("eaca4171-148c-49f1-a970-99a10ff57058") }

MongoDB server version: 4.0.28

```
{
    "shardAdded" : "rs-shard-01",
    "ok" : 1,
    "operationTime" : Timestamp(1671368976, 7),
    "$clusterTime" : {
        "clusterTime" : Timestamp(1671368976, 7),
        "signature" : {
            "hash" : BinData(0,"AAAAAAAAAAAAAAAAAAAAAAAAAAA="),
            "keyId" : NumberLong(0)
        }
    }
}
{
    "shardAdded" : "rs-shard-01",
    "ok" : 1,
    "operationTime" : Timestamp(1671368976, 7),
    "$clusterTime" : {
        "clusterTime" : Timestamp(1671368976, 7),
        "signature" : {
            "hash" : BinData(0,"AAAAAAAAAAAAAAAAAAAAAAAAAAA="),
            "keyId" : NumberLong(0)
        }
    }
}
```

```
{
    "shardAdded" : "rs-shard-01",
    "ok" : 1,
    "operationTime" : Timestamp(1671368976, 7),
    "$clusterTime" : {
        "clusterTime" : Timestamp(1671368976, 7),
        "signature" : {
            "hash" : BinData(0,"AAAAAAAAAAAAAAAAAAAAAAAAAAA="),
            "keyId" : NumberLong(0)
        }
    }
}
{
    "shardAdded" : "rs-shard-02",
    "ok" : 1,
    "operationTime" : Timestamp(1671368976, 12),
    "$clusterTime" : {
        "clusterTime" : Timestamp(1671368976, 12),
        "signature" : {
            "hash" : BinData(0,"AAAAAAAAAAAAAAAAAAAAAAAAAAA="),
            "keyId" : NumberLong(0)
        }
    }
}
{
    "shardAdded" : "rs-shard-02",
    "ok" : 1,
    "operationTime" : Timestamp(1671368976, 12),
    "$clusterTime" : {
        "clusterTime" : Timestamp(1671368976, 12),
```

```
                "signature" : {
            "hash" : BinData(0,"AAAAAAAAAAAAAAAAAAAAAAAAAAA="),

            "keyId" : NumberLong(0)

        }

    }

}

{

    "shardAdded" : "rs-shard-02",

    "ok" : 1,

    "operationTime" : Timestamp(1671368976, 12),

    "$clusterTime" : {

        "clusterTime" : Timestamp(1671368976, 12),

        "signature" : {

            "hash" : BinData(0,"AAAAAAAAAAAAAAAAAAAAAAAAAAA="),

            "keyId" : NumberLong(0)

        }

    }

}

{

    "shardAdded" : "rs-shard-03",

    "ok" : 1,

    "operationTime" : Timestamp(1671368976, 16),

    "$clusterTime" : {

        "clusterTime" : Timestamp(1671368976, 16),

        "signature" : {

            "hash" : BinData(0,"AAAAAAAAAAAAAAAAAAAAAAAAAAA="),

            "keyId" : NumberLong(0)

        }

    }

}
```

```
{
    "shardAdded" : "rs-shard-03",
    "ok" : 1,
    "operationTime" : Timestamp(1671368976, 16),
    "$clusterTime" : {
        "clusterTime" : Timestamp(1671368976, 16),
        "signature" : {
            "hash" : BinData(0,"AAAAAAAAAAAAAAAAAAAAAAAAAAA="),
            "keyId" : NumberLong(0)
        }
    }
}
{
    "shardAdded" : "rs-shard-03",
    "ok" : 1,
    "operationTime" : Timestamp(1671368976, 16),
    "$clusterTime" : {
        "clusterTime" : Timestamp(1671368976, 16),
        "signature" : {
            "hash" : BinData(0,"AAAAAAAAAAAAAAAAAAAAAAAAAAA="),
            "keyId" : NumberLong(0)
        }
    }
}
bye
```

Використання згенерованих даних rides.csv

PS D:\desktop\BPOC\lab3> docker-compose exec router01 sh -c " mongo < /scripts/collection.js"

MongoDB shell version v4.0.28

connecting to: mongodb://127.0.0.1:27017/?gssapiServiceName=mongodb

Implicit session: session { "id" : UUID("2e4c25c2-81bd-43a5-b793-248dcb1fcca7") }

MongoDB server version: 4.0.28

```
{
    "operationTime" : Timestamp(1671374483, 3),
    "$clusterTime" : {
        "signature" : {
            "hash" : BinData(0,"AAAAAAAAAAAAAAAAAAAAAAAAAAA="),
            "keyId" : NumberLong(0)
        }
    }
}
{
    "collectionsharded" : "taxi.rides",
    "collectionUUID" : UUID("07e742a5-e7d4-456c-9295-556b462e76be"),
    "ok" : 1,
    "operationTime" : Timestamp(1671374484, 24),
    "$clusterTime" : {
        "clusterTime" : Timestamp(1671374484, 24),
        "signature" : {
            "hash" : BinData(0,"AAAAAAAAAAAAAAAAAAAAAAAAAAA="),
            "keyId" : NumberLong(0)
        }
    }
}
bye
```

PS D:\desktop\BPOC\lab3> docker-compose exec router01 sh -c "mongoimport --port 27017 -d taxi -c rides --type csv --file /data/rides.csv --headerline"

2022-12-18T14:41:26.214+0000   connected to: localhost:27017

2022-12-18T14:41:26.319+0000   imported 1000 documents

PS D:\desktop\BPOC\lab3> docker-compose exec router01 sh -c " mongo < /scripts/query.js"

MongoDB shell version v4.0.28

connecting to: mongodb://127.0.0.1:27017/?gssapiServiceName=mongodb

Implicit session: session { "id" : UUID("0f74e75c-259c-4316-b336-a22196f8fa67") }

MongoDB server version: 4.0.28

switched to db taxi

100

bye