Lab 2

- Insert document in database.

```
amongosh mongodb+svv//<credentials>@cluster0.7nj7qs7.mongodb.net/myFirstDatabase

Atlas atlas-jp30ay-shard-0 [primary] sample_guides> db.planets.insertOne(
... id: 0bjectId("621ff30d2a3e781873fcb65a"),
... name: "Pluto",
... orderFromSun: 9,
... mainAtmosphere: ['N2', 'CO', 'CIM'],
... surfaceTemperatureC: (min: null, mean: -375 )
... }
... surfaceTemperatureC: (min: null, mean: -375 )
... }
... acknowledged: true,
insertedId: 0bjectId("621ff30d2a3e781873fcb65a")
}
Atlas atlas-jp30ay-shard-0 [primary] sample_guides> __
```

- Executing update operations using all update operators (\$set, \$unset, \$push, etc).

```
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```

```
... ($unset: { surfaceTemperatureC: ""}}
...)
{
    acknowledged: true,
    insertedId: null,
    matchedCount: 0,
    upsertedCount: 0,
    upsertedCount: 0
}
Atlas atlas-jp30ay-shard-0 [primary] sample_guides> _
```

- Executing insertion queries with both insertOne and insertMany with ordered flag.

```
ss atlas-jp30ay-shard-0 [primary] sample_guides> db.newColl.insertOne(
{_id: ObjectId("621ff30d2a3e781873fcb65b"), mainAtmosphere: [ 'H2', 'He', 'CH4', 'H2' ]},{ordered : true})
acknowledged: true,
insertedId: ObjectId("621ff30d2a3e781873fcb65b")
las atlas-jp30ay-shard-0 [primary] sample guides> db.newColl.find({ id: ObjectId("621ff30d2a3e781873fcb65b")});
  _id: ObjectId("621ff30d2a3e781873fcb65b"),
   atlas-jp30ay-shard-0 [primary] sample_guides> db.newColl.insertO
_mainAtmosphere: [ 'H2', 'He', 'CH4', 'H2', 'CO2']},
ordered : false}
acknowledged: <mark>true,</mark>
insertedId: ObjectId("6409d108800b3c89ba0fdf1d")
las atlas-jp30ay-shard-0 [primary] sample_guides> _
```

- Executing deleteOne and deleteMany operations.

las atlas-jp30ay-shard-0 [primary] sample_mflix>

```
onolomia-jp38g-shard-0 (primary) sample_guides> db.planets.delete0e({_id: 0bjectId("621ff30d2a3e781873fcb6sa
nowledged: true, deletedcount: 1 }
side_guides> db.planets.find({_id: 0bjectId("621ff30d2a3e781873fcb6sa")});
  mongosh mongodb+srv://<credentials>@cluster0.7nj7gs7.mongodb.net/myFirstDatabase
las atlas-jp30ay-shard-0 [primary] sample_guides> db.planets.deleteMany({mainAtmosphere: ['H2' ]});
acknowledged: true, deletedCount: 0 }
las atlas-jp30ay-shard-0 [primary] sample_guides>
```

- Creating indexes (single field, compound, multi-key and text indexes).

```
ed_mongosh mongodb*srv//<credentials>@cluster0.7nj7qs7.mongodb.net/myfirstDatabase
Atlas atlas-jp30ay-shard-0 [primary] sample_mflix> db.movies.createIndex({runtime
runtime 250
Atlas atlas-jp30ay-shard-0 [primary] sample_mflix> db.movies.getIndexs();
[ypeError: db.movies.getIndexs is not a function
Atlas atlas-jp30ay-shard-0 [primary] sample_mflix> db.movies.getIndexes();
[f
                                     v: 2,
key: { _fts: 'text', _ftsx: 1 },
name: 'cast text fullplot text genres text title text',
weights: { cast: 1, fullplot: 1, genres: 1, title: 1 },
default_language: 'english',
language override: 'language',
textIndexVersion: 3
                           Holgariningsouth (Accelerate education) proposed the state of the stat
                                      v: 2,
key: { _fts: 'text', _ftsx: 1 },
name: 'cast_text_fullplot_text_genres_text_title_text',
weights: { cast: 1, fullplot: 1, genres: 1, title: 1 },
default language: 'english',
language_override: 'language',
textIndexVersion: 3
                                                      2, key: { runtime: 250 }, name: 'runtime_250' },
2, key: { year: 2023, type: 700 }, name: 'year_2023_type_700' }
mongosh mongodb+srv://<credentials>@cluster0.7nj7gs7.mongodb.net/myFirstDatabasi
                             s atlas-jp30ay-shard-0 [primary] sample_mflix> db.movies.createIndex
         enres_345
clas atlas-jp30ay-shard-0 [primary] sample_mflix> db.movies.getIndexes();
                     as atlas-jp30ay-shard-0 [primary] sample_mflix> db.movles.getIndexes(

v: 2, key: { _id: 1 }, name: '_id_' },

v: 2, key: { _fts: 'text', _ftsx: 1 },

v: 2, 'cast_text_fullplot_text_genres_text_title_text',

key: { _fts: 'text', _ftsx: 1 }, genres: 1, title: 1 },

name: 'cast_text_fullplot_text_genres_text_title_text',

weights: { cast: 1, fullplot: 1, genres: 1, title: 1 },

default_language: 'english',

language_override: 'language',

textIndexVersion: 3e: 250 }, anse: 'runtime_250' },

v: 2, key: { year: 2023, type: 700 }, name: 'year_2023_type_700' },

v: 2, key: { year: 2023, type: 700 }, name: 'year_2023_type_700' },

v: 2, key: { year: 2023, type: 700 }, name: 'year_2023_type_700' },

v: 2, key: { genres: 345 }, name: 'genres_345' }
```

- Using cursor.explain with different queries and reading and understanding the winningPlan.

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