db.colRestaurants.getIndexes()

```
dbRestaurants> db.colRestaurants.getIndexes()
[ { v: 2, key: { _id: 1 }, name: '_id_' } ]
```

2. 3772 documents were examined

```
executionStats: {
   executionSuccess: true,
   nReturned: 1,
   executionTimeMillis: 1,
   totalKeysExamined: 0,
   totalDocsExamined: 3772,
```

3. I'd say there are 4 fields: restaurant\_id, name, borough, cuisine.

4.

5.
 dbRestaurants> db.colRestaurants.createIndex({name: 1, grades: 1})

6.

```
executionStats: {
   executionSuccess: true,
   nReturned: 1,
   executionTimeMillis: 20,
   totalKeysExamined: 1,
   totalDocsExamined: 1,
```

7. db.colRestaurants.dropIndex({name: 1, grades: 1})

```
dbRestaurants> db.colRestaurants.dropIndex({name: 1, grades: 1})
{    nIndexesWas: 6, ok: 1 }
dbRestaurants> db.colRestaurants.getIndexes()
[
    { v: 2, key: { _id: 1 }, name: '_id_' },
    { v: 2, key: { name: 1 }, name: 'name_1' },
    { v: 2, key: { restaurant_id: 1 }, name: 'restaurant_id_1' },
    { v: 2, key: { borough: 1 }, name: 'borough_1' },
    { v: 2, key: { cuisine: 1 }, name: 'cuisine_1' }
]
```

8. db.colRestaurants.aggregate([{\$group: {\_id:"\$borough", totalRestaurant:{\$sum: 1}}}])

```
dbRestaurants> db.colRestaurants.aggregate([{$group: {_id:"$borough", totalRestaurant:{$sum: 1}}}])
[
    {_id: 'Queens', totalRestaurant: 738 },
    {_id: 'Staten Island', totalRestaurant: 158 },
    {_id: 'Brooklyn', totalRestaurant: 684 },
    {_id: 'Broox', totalRestaurant: 309 },
    {_id: 'Manhattan', totalRestaurant: 1883 }
]
```

9. db.colRestaurants.aggregate([{\$match: {borough: "Staten Island"}},{\$group: {\_id:"\$cuisine", No\_restaurants\_in\_Staten:{\$sum: 1}}}])

10. db.colRestaurants.aggregate([{\$match: {borough: "Bronx"}},{\$group: {\_id:"\$cuisine", Last\_in\_List:{\$last: "\$name"}}}])