## [Practical-4]

## Perform MongoDB [Aggregate | Indexes | Utilities ] Operations.

- 1. Display the Names of the Students who play Cricket
- 2. Find the Average Marks obtained by each Sec and Arrange in Descending Order
- 3. Find the count of female student in each Sec and Display 2nd and 3rd Documents only.
- 4. Create an index on id that identified students uniquely and check their performance using explain() method and also delete this index after use.
- 5. Take the backup of this Student collection and restore after drooping it.

## Instructions:

- Perform all the above activities.
- Student1.json file is attached.

## Implementation:

```
{ "_id" : "C", "count" : 3 } { "_id" : "A", "count" : 4 }
4.
> db.assign2.createIndex({id : 1} , {unique : true})
    { "createdCollectionAutomatically": false, "numIndexesBefore": 1, "numIndexesAfter": 2, "ok": 1 }
> db.assign2.explain().find({id:1})
{ "queryPlanner" : { "plannerVersion" : 1, "namespace" : "DB1.assign2", "indexFilterSet" : false,
"parsedQuery": { "id": { "$eq": 1 } }, "queryHash": "6DAB46EC", "planCacheKey": "801B9D84",
"winningPlan": { "stage": "FETCH", "inputStage": { "stage": "IXSCAN", "keyPattern": { "id": 1 },
"indexName": "id_1", "isMultiKey": false, "multiKeyPaths": { "id":[]}, "isUnique": true, "isSparse":
false, "isPartial": false, "indexVersion": 2, "direction": "forward", "indexBounds": { "id": [ "[1.0, 1.0]"
] } } }, "rejectedPlans" : [ ] }, "serverInfo" : { "host" : "Jai_Anant_Comp", "port" : 27017, "version" :
"4.4.3", "gitVersion": "913d6b62acfbb344dde1b116f4161360acd8fd13"}, "ok": 1
> db.assign2.dropIndex("id_1")
  { "nIndexesWas" : 2, "ok" : 1 }
5.
> db.assign2.aggregate({$out : "assign3"}) > db.assign2.drop() true > db.assign3.aggregate({$out : "assign3"}) > db.assign
"assign2"})
```