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## **SL1 ASSIGNMENT 16**

Problem Statement: Implement the aggregation and indexing with suitable example on above MongoDB database.Demonstrate Following

- Aggregation framework
- Create and drop different types of indexes and explain () to show the advantage of the indexes.

## Calculate total amount for each customer id

```
> db.temp.aggregate([{ $match: { status: "A" } }, { $group: { _id: "$cust_id",
total: { $sum: "$amount" } } }, { $sort: { total: -1 } }]);
{ "_id" : "A123", "total" : 750 }
{ "_id" : "B212", "total" : 200 }
```

## Aggregation (Return Total price per customer)

## **Indexes**

```
> db.Orders.createIndex({order_id : 1});
{
    "createdCollectionAutomatically" : false,
    "numIndexesBefore" : 1,
    "numIndexesAfter" : 2,
    "ok" : 1
```

```
}
> db.Orders.getIndexes();
{
            "v" : 2,
            "key" : {
                  "_id" : 1
            },
            "name" : "_id_",
            "ns" : "order_man.Orders"
      },
      {
            "v" : 2,
            "key" : {
                  "order_id" : 1
            },
            "name" : "order_id_1",
            "ns" : "order_man.Orders"
      }
]
> db.Orders.dropIndex({order_id : 1});
{ "nIndexesWas" : 2, "ok" : 1 }
> db.Orders.getIndexes();
[
      {
            "v" : 2,
            "key" : {
                  "_id" : 1
            },
            "name" : "_id_",
            "ns" : "order_man.Orders"
      }
]
```