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## **SL1 ASSIGNMENT 12**

Problem Statement : Create a database with suitable example using MongoDB and implement

- Inserting and saving document (batch insert, insert validation)
- Removing document
- Updating document (document replacement, using modifiers, upserts, updating multiple documents, returning updated documents)

## Creating the collection with validations

```
db.createCollection( "Orders", { validator: { order_id: {$type:"double"},
prod_name: {$type:"string"}, quantity: {$type:"double"}, price:
{$type:"double"}, delivery_date: {$type:"date"} }} );
```

## Inserting Documents in collection

## Batch Insert

```
"price" : 100,
      "delivery date" : ISODate("2001-03-19T18:30:00Z")
}
{
      " id" : ObjectId("5fc1d6b27ba587b219205f0e"),
      "order_id" : 11,
"prod_name" : "sweatshirt",
      "quantity" : 2,
      "price" : 3000,
      "delivery date" : ISODate("2010-08-11T18:30:00Z")
}
{
      " id" : ObjectId("5fc1d6b27ba587b219205f0f"),
      "order_id": 12,
      "prod name" : "laptop",
      "quantity" : 1,
      "price" : 50000,
      "delivery date" : ISODate("2020-12-19T18:30:00Z")
}
Update
> db.Orders.update({ order_id : 12}, {$set : {prod_name : "apple 12"} });
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.Orders.find().pretty();
{
      " id" : ObjectId("5fc1d5bf7ba587b219205f0a"),
      "prod_name" : "sanitizer",
      "quantity" : 1,
      "price" : 100,
      "delivery_date" : ISODate("2001-03-19T18:30:00Z")
}
{
      "_id" : ObjectId("5fc1d6b27ba587b219205f0e"),
      "prod_name" : "sweatshirt",
"quantity" : 2,
      "price" : 3000,
      "delivery date" : ISODate("2010-08-11T18:30:00Z")
}
{
      " id" : ObjectId("5fc1d6b27ba587b219205f0f"),
      "order id" : 12,
      "prod_name" : "apple 12",
      "quantity" : 1,
      "price" : 50000,
      "delivery_date" : ISODate("2020-12-19T18:30:00Z")
}
Delete
> db.Orders.remove({order_id : 12});
WriteResult({ "nRemoved" : 1 })
> db.Orders.find().pretty();
{
      " id" : ObjectId("5fc1d5bf7ba587b219205f0a"),
      __
"order_id" : 10,
      "prod name" : "sanitizer",
      "quantity" : 1,
```

```
"price" : 100,
      "delivery date" : ISODate("2001-03-19T18:30:00Z")
}
{
      " id" : ObjectId("5fc1d6b27ba587b219205f0e"),
      "order_id" : 11,
      "prod_name" : "sweatshirt",
      "quantity" : 2,
      "price" : 3000,
      "delivery date" : ISODate("2010-08-11T18:30:00Z")
}
Updating Multiple Documents
> db.Orders.update({}, {$set : {quantity : 15}}, {multi : true});
WriteResult({ "nMatched" : 2, "nUpserted" : 0, "nModified" : 2 })
> db.Orders.find().pretty();
{
      " id" : ObjectId("5fc1d5bf7ba587b219205f0a"),
      "order_id" : 10,
"prod_name" : "sanitizer",
      'quantity" : 15,
      "price" : 100,
      "delivery_date" : ISODate("2001-03-19T18:30:00Z")
}
{
      " id" : ObjectId("5fc1d6b27ba587b219205f0e"),
      "prod_name" : "sweatshirt",
      "quantity": 15,
      "price" : 3000,
      "delivery_date" : ISODate("2010-08-11T18:30:00Z")
}
Upsert
> db.Orders.update({order id : 11}, {order id : 17, prod name : 'wardrobe',
quantity: 2, price: 7000, delivery date: new Date(2010,7,12)}, {upsert:
true});
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.Orders.find().pretty();
{
      "_id" : ObjectId("5fc1d5bf7ba587b219205f0a"),
      "order id": 10,
      "prod name" : "sanitizer",
      "quantity" : 15,
      "price" : 100,
      "delivery date" : ISODate("2001-03-19T18:30:00Z")
}
{
      "_id" : ObjectId("5fc1d6b27ba587b219205f0e"),
      "prod name" : "wardrobe",
      "quantity" : 2,
      "price" : 7000,
      "delivery_date" : ISODate("2010-08-11T18:30:00Z")
}
```