```javascript
// ---------------------------
// CREATE DATABASE & COLLECTION
// ---------------------------

// OneCompiler automatically uses a default database
// So we directly create the collection by inserting documents.


// ---------------------------
// INSERT MULTIPLE DOCUMENTS
// ---------------------------

db.employees.insertMany([
  {
    employeeId: 101,
    name: "Mayuri Patil",
    email: "mayuri@example.com",
    age: 23,
    position: "Developer",
    department: "IT",
    managers: [
      { name: "Rahul Sharma", location: "Mumbai" },
      { name: "Neha Gupta", location: "Pune" }
    ]
  },
  {
    employeeId: 102,
    name: "Amit Singh",
```

```javascript
  {
    employeeId: 102,
    name: "Amit Singh",
    email: "amit@example.com",
    age: 29,
    position: "Analyst",
    department: "Finance",
    managers: [
      { name: "Rohit Verma", location: "Delhi" }
    ]
  },
  {
    employeeId: 103,
    name: "Priya Desai",
    email: "priya@example.com",
    age: 26,
    position: "HR Executive",
    department: "HR",
    managers: [
      { name: "Kiran Patil", location: "Nashik" }
    ]
  },
  {
    employeeId: 104,
    name: "Sagar More",
    email: "sagar@example.com",
    age: 31,
    position: "Team Lead",
    department: "IT",
```

```javascript
      department:  "IT" ,
      managers: [
        { name: "Mahesh Rao", location: "Bangalore" }
      ]
    },
    {
      employeeId: 105,
      name: "Rutuja Jain",
      email: "rutuja@example.com",
      age: 27,
      position: "Designer",
      department: "Creative",
      managers: [
        { name: "Sneha Kulkarni", location: "Mumbai" }
      ]
    }
  ]);


// ---------------------------
// UPDATE DOCUMENT
// ---------------------------

db.employees.updateOne(
  { employeeId: 103 },
  { $set: { age: 28, position: "Senior HR Executive" } }
);
```

```javascript
  { $set: { age: 28, position: "Senior HR Executive" } }
);


// ---------------------------
// DELETE DOCUMENT
// ---------------------------

db.employees.deleteOne({ employeeId: 105 });


// ---------------------------
// QUERY DOCUMENTS (EXACT MATCH)
// ---------------------------

// Find all employees from IT department
db.employees.find({ department: "IT" });

// Find employee by exact name
db.employees.find({ name: "Amit Singh" });


// ---------------------------
// AGGREGATION OPERATIONS
// ---------------------------
```

```js
// ---------------------------
// AGGREGATION OPERATIONS
// ---------------------------

// Minimum age
db.employees.aggregate([
  { $group: { _id: null, minAge: { $min: "$age" } } }
]);

// Maximum age
db.employees.aggregate([
  { $group: { _id: null, maxAge: { $max: "$age" } } }
]);

// Average age
db.employees.aggregate([
  { $group: { _id: null, avgAge: { $avg: "$age" } } }
]);

// Sum of all ages
db.employees.aggregate([
  { $group: { _id: null, sumAge: { $sum: "$age" } } }
]);

// Group by department
db.employees.aggregate([
  { $group: { _id: "$department", totalEmployees: { $sum: 1 } } }
]);
```

OutPut:-

✧ AI   NEW   MONGODB ⌄   RUN ▶   ⋮   ⌐⌐

Output:

```
{
        "acknowledged" : true,
        "insertedIds" : [
                ObjectId("6917ebe5de8aa8cb52fbb466"),
                ObjectId("6917ebe5de8aa8cb52fbb467"),
                ObjectId("6917ebe5de8aa8cb52fbb468"),
                ObjectId("6917ebe5de8aa8cb52fbb469"),
                ObjectId("6917ebe5de8aa8cb52fbb46a")
        ]
}
{ "acknowledged" : true, "matchedCount" : 1, "modifiedCount" :
{ "acknowledged" : true, "deletedCount" : 1 }
{ "_id" : ObjectId("6917ebe5de8aa8cb52fbb466"), "employeeId" :
{ "_id" : ObjectId("6917ebe5de8aa8cb52fbb469"), "employeeId" :
{ "_id" : ObjectId("6917ebe5de8aa8cb52fbb467"), "employeeId" :
{ "_id" : null, "minAge" : 23 }
{ "_id" : null, "maxAge" : 31 }
{ "_id" : null, "avgAge" : 27.75 }
{ "_id" : null, "sumAge" : 111 }

{ "_id" : "IT", "totalEmployees" : 2 }
{ "_id" : "Finance", "totalEmployees" : 1 }
{ "_id" : "HR", "totalEmployees" : 1 }
```