

Day-5 MongoDB -NoSQL Assignment

```
C:\Users\91814>mongosh
Current Mongosh Log ID: 695749f52f8cf3bafb1e2620
Connecting to:      mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000&appName=mongosh+2.5.10
Using MongoDB:      8.2.3
Using Mongosh:      2.5.10

For mongosh info see: https://www.mongodb.com/docs/mongodb-shell/

To help improve our products, anonymous usage data is collected and sent to MongoDB periodically (https://www.mongodb.com/legal/privacy-policy).
You can opt-out by running the disableTelemetry() command.

-----
The server generated these startup warnings when booting
2025-12-26T11:26:21.028+05:30: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted
-----
```

Database Creation:

```
test> use insurance_db
switched to db insurance_db
insurance_db>
```

Collections Creation and Data Insertion:

Customer Collection:

```
insurance_db> db.customers.insertMany([
...   { firstName: "Karthik", lastName: "Mehra", dateOfBirth: ISODate("1994-08-14"), phone: "9812345601", email: "karthik.mehra@gmail.com" },
...   { firstName: "Pooja", lastName: "Nair", dateOfBirth: ISODate("1998-02-21"), phone: "9823456702", email: "pooja.nair@gmail.com" },
...   { firstName: "Rohan", lastName: "Malik", dateOfBirth: ISODate("1992-06-11"), phone: "9834567803", email: "rohan.malik@gmail.com" },
...   { firstName: "Ananya", lastName: "Iyer", dateOfBirth: ISODate("1996-09-30"), phone: "9845678904", email: "ananya.iyer@gmail.com" },
...   { firstName: "Siddharth", lastName: "Jain", dateOfBirth: ISODate("1995-01-19"), phone: "9856789015", email: "siddharth.jain@gmail.com" },
...   { firstName: "Meera", lastName: "Kulkarni", dateOfBirth: ISODate("2001-05-07"), phone: "9867890126", email: "meera.k@gmail.com" }
... ]);
...
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId('69576dd92f8cf3bafb1e263e'),
    '1': ObjectId('69576dd92f8cf3bafb1e263f'),
    '2': ObjectId('69576dd92f8cf3bafb1e2640'),
    '3': ObjectId('69576dd92f8cf3bafb1e2641'),
    '4': ObjectId('69576dd92f8cf3bafb1e2642'),
    '5': ObjectId('69576dd92f8cf3bafb1e2643')
  }
}
```

Policies collection:

```
insurance_db> db.policies.insertMany([
...   { policyName: "Secure Life Plus", policyType: "Life Insurance", premiumAmount: 18000, durationYears: 25 },
...   { policyName: "MediCare Gold", policyType: "Health Insurance", premiumAmount: 20000, durationYears: 10 },
...   { policyName: "Auto Protect", policyType: "Car Insurance", premiumAmount: 9000, durationYears: 7 },
...   { policyName: "Marine Shield", policyType: "Boat Insurance", premiumAmount: 14000, durationYears: 12 },
...   { policyName: "Bike Guard", policyType: "Vehicle Insurance", premiumAmount: 4500, durationYears: 3 },
...   { policyName: "Home Care", policyType: "Property Insurance", premiumAmount: 12000, durationYears: 20 },
...   { policyName: "Home Elite", policyType: "Property Insurance", premiumAmount: 25000, durationYears: 30 },
...   { policyName: "Travel Guard", policyType: "Travel Insurance", premiumAmount: 3500, durationYears: 1 },
...   { policyName: "Child Secure", policyType: "Life Insurance", premiumAmount: 24000, durationYears: 20 },
...   { policyName: "Pension Plan", policyType: "Life Insurance", premiumAmount: 27000, durationYears: 35 },
...   { policyName: "Disability Cover", policyType: "Disability Insurance", premiumAmount: 15000, durationYears: 2 }
... ]);
...
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId('69576de52f8cf3bafb1e2644'),
    '1': ObjectId('69576de52f8cf3bafb1e2645'),
    '2': ObjectId('69576de52f8cf3bafb1e2646'),
    '3': ObjectId('69576de52f8cf3bafb1e2647'),
    '4': ObjectId('69576de52f8cf3bafb1e2648'),
    '5': ObjectId('69576de52f8cf3bafb1e2649'),
    '6': ObjectId('69576de52f8cf3bafb1e264a'),
    '7': ObjectId('69576de52f8cf3bafb1e264b'),
    '8': ObjectId('69576de52f8cf3bafb1e264c'),
    '9': ObjectId('69576de52f8cf3bafb1e264d'),
    '10': ObjectId('69576de52f8cf3bafb1e264e')
  }
}
```

Policy Assignments collection:

```
insurance_db> db.policyAssignments.insertMany([
...   {
...     customerId: db.customers.findOne({ firstName: "Karthik" })._id,
...     policyId: db.policies.findOne({ policyName: "Secure Life Plus" })._id,
...     agentId: db.agents.findOne({ agentName: "Ramesh Verma" })._id,
...     startDate: ISODate("2021-04-01"),
...     endDate: ISODate("2046-04-01")
...   },
...   {
...     customerId: db.customers.findOne({ firstName: "Pooja" })._id,
...     policyId: db.policies.findOne({ policyName: "MediCare Gold" })._id,
...     agentId: db.agents.findOne({ agentName: "Kavya Rao" })._id,
...     startDate: ISODate("2023-01-10"),
...     endDate: ISODate("2033-01-10")
...   }
... ]);
...
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId('69576e132f8cf3bafb1e265f'),
    '1': ObjectId('69576e132f8cf3bafb1e2660')
  }
}
```

Agents Collection:

```
insurance_db> db.agents.insertMany([
...   { agentName: "Ramesh Verma", phone: "9871112233", city: "Mumbai" },
...   { agentName: "Kavya Rao", phone: "9882223344", city: "Hyderabad" },
...   { agentName: "Aakash Singh", phone: "9893334455", city: "Pune" },
...   { agentName: "Nitin Chawla", phone: "9904445566", city: "Noida" },
...   { agentName: "Divya Shah", phone: "9915556677", city: "Ahmedabad" }
... ]);
...
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId('69576df52f8cf3bafb1e265a'),
    '1': ObjectId('69576df52f8cf3bafb1e265b'),
    '2': ObjectId('69576df52f8cf3bafb1e265c'),
    '3': ObjectId('69576df52f8cf3bafb1e265d'),
    '4': ObjectId('69576df52f8cf3bafb1e265e')
  }
}
```

Claims Collections:

```
insurance_db> db.claims.insertMany([
...   {
...     assignmentId: db.policyAssignments.findOne()._id,
...     claimDate: ISODate("2022-08-12"),
...     claimAmount: 60000,
...     claimStatus: "Approved"
...   },
...   {
...     assignmentId: db.policyAssignments.findOne()._id,
...     claimDate: ISODate("2024-10-14"),
...     claimAmount: 30000,
...     claimStatus: "Approved"
...   }
... ]);
...
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId('69576e1c2f8cf3bafb1e2661'),
    '1': ObjectId('69576e1c2f8cf3bafb1e2662')
  }
}
```

Payments Collections:

```
insurance_db> db.payments.insertMany([
...   {
...     policyId: db.policies.findOne({ policyName: "Secure Life Plus" })._id,
...     paymentDate: ISODate("2022-04-05"),
...     amount: 18000
...   },
...   {
...     policyId: db.policies.findOne({ policyName: "Secure Life Plus" })._id,
...     paymentDate: ISODate("2023-04-05"),
...     amount: 18000
...   }
... ]);
...
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId('69576e232f8cf3bafb1e2663'),
    '1': ObjectId('69576e232f8cf3bafb1e2664')
  }
}
```

CRUD Operations:

C — CREATE (Insert):

```
insurance_db> db.customers.insertOne({
...   firstName: "Arjun",
...   lastName: "Reddy",
...   dateOfBirth: ISODate("1997-03-12"),
...   phone: "9998887776",
...   email: "arjun.reddy@gmail.com"
... });
...
{
  acknowledged: true,
  insertedId: ObjectId('6957742c2f8cf3bafb1e2665')
}
```

R — READ (Find / Select):

Read ALL:

```
insurance_db> db.customers.find().toArray();
[
  {
    _id: ObjectId('69576dd92f8cf3bafb1e263e'),
    firstName: 'Karthik',
    lastName: 'Mehra',
    dateOfBirth: ISODate('1994-08-14T00:00:00.000Z'),
    phone: '9812345601',
    email: 'karthik.mehra@gmail.com'
  },
  {
    _id: ObjectId('69576dd92f8cf3bafb1e263f'),
    firstName: 'Pooja',
    lastName: 'Nair',
    dateOfBirth: ISODate('1998-02-21T00:00:00.000Z'),
    phone: '9823456702',
    email: 'pooja.nair@gmail.com'
  },
  {
    _id: ObjectId('69576dd92f8cf3bafb1e2640'),
    firstName: 'Rohan',
    lastName: 'Malik',
    dateOfBirth: ISODate('1992-06-11T00:00:00.000Z'),
    phone: '9834567803',
    email: 'rohan.malik@gmail.com'
  },
  {
    _id: ObjectId('69576dd92f8cf3bafb1e2641'),
    firstName: 'Ananya',
    lastName: 'Iyer',
    dateOfBirth: ISODate('1996-09-30T00:00:00.000Z'),
    phone: '9845678904',
    email: 'ananya.iyer@gmail.com'
  },
  {
    _id: ObjectId('69576dd92f8cf3bafb1e2642'),
    firstName: 'Siddharth',
    lastName: 'Jain',
    dateOfBirth: ISODate('1995-01-19T00:00:00.000Z'),
    phone: '9856789015',
    email: 'siddharth.jain@gmail.com'
  },
  {
    _id: ObjectId('69576dd92f8cf3bafb1e2643'),
    firstName: 'Meera',
    lastName: 'Kulkarni',
    dateOfBirth: ISODate('2001-05-07T00:00:00.000Z'),
    phone: '9867890126',
    email: 'meera.k@gmail.com'
  },
  {
    _id: ObjectId('6957742c2f8cf3bafb1e2665'),
    firstName: 'Arjun',
    lastName: 'Reddy',
    dateOfBirth: ISODate('1997-03-12T00:00:00.000Z'),
    phone: '9998887776',
    email: 'arjun.reddy@gmail.com'
  }
]
```

Read specific fields:

```
insurance_db> db.customers.find(
...   {},
...   { _id: 0, firstName: 1, email: 1 }
... ).toArray();
...
[
  { firstName: 'Karthik', email: 'karthik.mehra@gmail.com' },
  { firstName: 'Pooja', email: 'pooja.nair@gmail.com' },
  { firstName: 'Rohan', email: 'rohan.malik@gmail.com' },
  { firstName: 'Ananya', email: 'ananya.iyer@gmail.com' },
  { firstName: 'Siddharth', email: 'siddharth.jain@gmail.com' },
  { firstName: 'Meera', email: 'meera.k@gmail.com' },
  { firstName: 'Arjun', email: 'arjun.reddy@gmail.com' }
]
```

Read with condition (WHERE):

```
insurance_db> db.customers.find(
...   {},
...   { _id: 0, firstName: 1, email: 1 }
... ).toArray();
...
[
  { firstName: 'Karthik', email: 'karthik.mehra@gmail.com' },
  { firstName: 'Pooja', email: 'pooja.nair@gmail.com' },
  { firstName: 'Rohan', email: 'rohan.malik@gmail.com' },
  { firstName: 'Ananya', email: 'ananya.iyer@gmail.com' },
  { firstName: 'Siddharth', email: 'siddharth.jain@gmail.com' },
  { firstName: 'Meera', email: 'meera.k@gmail.com' },
  { firstName: 'Arjun', email: 'arjun.reddy@gmail.com' }
]
insurance_db> db.customers.find({ firstName: "Karthik" }).toArray();
[
  {
    _id: ObjectId('69576dd92f8cf3bafb1e263e'),
    firstName: 'Karthik',
    lastName: 'Mehra',
    dateOfBirth: ISODate('1994-08-14T00:00:00.000Z'),
    phone: '9812345601',
    email: 'karthik.mehra@gmail.com'
  }
]
```

Read with comparison:

```
insurance_db> db.policies.find({ premiumAmount: { $gt: 20000 } }).toArray();
[
  {
    _id: ObjectId('69576de52f8cf3bafb1e264a'),
    policyName: 'Home Elite',
    policyType: 'Property Insurance',
    premiumAmount: 25000,
    durationYears: 30
  },
  {
    _id: ObjectId('69576de52f8cf3bafb1e264c'),
    policyName: 'Child Secure',
    policyType: 'Life Insurance',
    premiumAmount: 24000,
    durationYears: 20
  },
  {
    _id: ObjectId('69576de52f8cf3bafb1e264d'),
    policyName: 'Pension Plan',
    policyType: 'Life Insurance',
    premiumAmount: 27000,
    durationYears: 35
  },
  {
    _id: ObjectId('69576ded2f8cf3bafb1e2655'),
    policyName: 'Home Elite',
    policyType: 'Property Insurance',
    premiumAmount: 25000,
    durationYears: 30
  },
  {
    _id: ObjectId('69576ded2f8cf3bafb1e2657'),
    policyName: 'Child Secure',
    policyType: 'Life Insurance',
    premiumAmount: 24000,
    durationYears: 20
  },
  {
    _id: ObjectId('69576ded2f8cf3bafb1e2658'),
    policyName: 'Pension Plan',
    policyType: 'Life Insurance',
    premiumAmount: 27000,
    durationYears: 35
  }
]
```

U — UPDATE:

Update ONE:

```
insurance_db> db.customers.updateOne(
...   { email: "karthik.mehra@gmail.com" },
...   { $set: { phone: "90000000000" } }
... );
...
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
```

Update MANY:

```
insurance_db> db.policies.updateMany(
...   { policyType: "Life Insurance" },
...   { $set: { policyType: "Life" } }
... );
...
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 6,
  modifiedCount: 6,
  upsertedCount: 0
}
```

D — DELETE:

Delete ONE:

```
insurance_db> db.customers.deleteOne({ firstName: "Arjun" });
{ acknowledged: true, deletedCount: 1 }
insurance_db>
```

Delete MANY:

```
insurance_db> db.policies.deleteMany({ policyType: "Travel Insurance" });
{ acknowledged: true, deletedCount: 2 }
```

Queries:

Add GST (18%) calculated field using aggregation:

```
insurance_db> db.policies.aggregate([
...   {
...     $project: {
...       customerName: 1,
...       totalPremium: { $multiply: ["$premium", 1.18] }
...     }
...   }
... ])
...
[
  { _id: ObjectId('69576de52f8cf3bafb1e2644'), totalPremium: null },
  { _id: ObjectId('69576de52f8cf3bafb1e2645'), totalPremium: null },
  { _id: ObjectId('69576de52f8cf3bafb1e2646'), totalPremium: null },
  { _id: ObjectId('69576de52f8cf3bafb1e2647'), totalPremium: null },
  { _id: ObjectId('69576de52f8cf3bafb1e2648'), totalPremium: null },
  { _id: ObjectId('69576de52f8cf3bafb1e2649'), totalPremium: null },
  { _id: ObjectId('69576de52f8cf3bafb1e264a'), totalPremium: null },
  { _id: ObjectId('69576de52f8cf3bafb1e264c'), totalPremium: null },
  { _id: ObjectId('69576de52f8cf3bafb1e264d'), totalPremium: null },
  { _id: ObjectId('69576de52f8cf3bafb1e264e'), totalPremium: null },
  { _id: ObjectId('69576ded2f8cf3bafb1e264f'), totalPremium: null },
  { _id: ObjectId('69576ded2f8cf3bafb1e2650'), totalPremium: null },
  { _id: ObjectId('69576ded2f8cf3bafb1e2651'), totalPremium: null },
  { _id: ObjectId('69576ded2f8cf3bafb1e2652'), totalPremium: null },
  { _id: ObjectId('69576ded2f8cf3bafb1e2653'), totalPremium: null },
  { _id: ObjectId('69576ded2f8cf3bafb1e2654'), totalPremium: null },
  { _id: ObjectId('69576ded2f8cf3bafb1e2655'), totalPremium: null },
  { _id: ObjectId('69576ded2f8cf3bafb1e2657'), totalPremium: null },
  { _id: ObjectId('69576ded2f8cf3bafb1e2658'), totalPremium: null },
  { _id: ObjectId('69576ded2f8cf3bafb1e2659'), totalPremium: null }
]
insurance_db>
```


Conditional category using \$cond:

```
insurance_db> db.policies.aggregate([
...   {
...     $project: {
...       customerName: 1,
...       category: {
...         $cond: [
...           { $gt: ["$premium", 15000] },
...           "High",
...           "Normal"
...         ]
...       }
...     }
...   }
... ])
...
[
  { _id: ObjectId('69576de52f8cf3bafb1e2644'), category: 'Normal' },
  { _id: ObjectId('69576de52f8cf3bafb1e2645'), category: 'Normal' },
  { _id: ObjectId('69576de52f8cf3bafb1e2646'), category: 'Normal' },
  { _id: ObjectId('69576de52f8cf3bafb1e2647'), category: 'Normal' },
  { _id: ObjectId('69576de52f8cf3bafb1e2648'), category: 'Normal' },
  { _id: ObjectId('69576de52f8cf3bafb1e2649'), category: 'Normal' },
  { _id: ObjectId('69576de52f8cf3bafb1e264a'), category: 'Normal' },
  { _id: ObjectId('69576de52f8cf3bafb1e264c'), category: 'Normal' },
  { _id: ObjectId('69576de52f8cf3bafb1e264d'), category: 'Normal' },
  { _id: ObjectId('69576de52f8cf3bafb1e264e'), category: 'Normal' },
  { _id: ObjectId('69576ded2f8cf3bafb1e264f'), category: 'Normal' },
  { _id: ObjectId('69576ded2f8cf3bafb1e2650'), category: 'Normal' },
  { _id: ObjectId('69576ded2f8cf3bafb1e2651'), category: 'Normal' },
  { _id: ObjectId('69576ded2f8cf3bafb1e2652'), category: 'Normal' },
  { _id: ObjectId('69576ded2f8cf3bafb1e2653'), category: 'Normal' },
  { _id: ObjectId('69576ded2f8cf3bafb1e2654'), category: 'Normal' },
  { _id: ObjectId('69576ded2f8cf3bafb1e2655'), category: 'Normal' },
  { _id: ObjectId('69576ded2f8cf3bafb1e2657'), category: 'Normal' },
  { _id: ObjectId('69576ded2f8cf3bafb1e2658'), category: 'Normal' },
  { _id: ObjectId('69576ded2f8cf3bafb1e2659'), category: 'Normal' }
]
```

Count Active vs Inactive policies:

```
insurance_db> db.policies.aggregate([
...   { $group: { _id: "$active", count: { $sum: 1 } } }
... ])
...
[ { _id: null, count: 20 } ]
insurance_db>
```

INNER JOIN:

Customers who have policies:

```
insurance_db> db.customers.aggregate([
...   {
...     $lookup: {
...       from: "policies",
...       localField: "customerId",
...       foreignField: "customerId",
...       as: "policy"
...     }
...   },
...   { '$unwind': "$policy" }
... ])
...
[
  {
    _id: ObjectId('69576dd92f8cf3bafb1e263e'),
    firstName: 'Karthik',
    lastName: 'Mehra',
    dateOfBirth: ISODate('1994-08-14T00:00:00.000Z'),
    phone: '9000000000',
    email: 'karthik.mehra@gmail.com',
    policy: {
      _id: ObjectId('69576de52f8cf3bafb1e2644'),
      policyName: 'Secure Life Plus',
      policyType: 'Life',
      premiumAmount: 18000,
      durationYears: 25
    }
  },
  {
    _id: ObjectId('69576dd92f8cf3bafb1e263e'),
    firstName: 'Karthik',
    lastName: 'Mehra',
    dateOfBirth: ISODate('1994-08-14T00:00:00.000Z'),
    phone: '9000000000',
    email: 'karthik.mehra@gmail.com',
    policy: {
      _id: ObjectId('69576de52f8cf3bafb1e2645'),
      policyName: 'MediCare Gold',
      policyType: 'Health Insurance',
      premiumAmount: 20000,

```

LEFT OUTER JOIN:

All customers (even without policies):

```
insurance_db> db.customers.aggregate([
...   {
...     $lookup: {
...       from: "policies",
...       localField: "customerId",
...       foreignField: "customerId",
...       as: "policies"
...     }
...   }
... ])
...
[
  {
    _id: ObjectId('69576dd92f8cf3bafb1e263e'),
    firstName: 'Karthik',
    lastName: 'Mehra',
    dateOfBirth: ISODate('1994-08-14T00:00:00.000Z'),
    phone: '9000000000',
    email: 'karthik.mehra@gmail.com',
    policies: [
      {
        _id: ObjectId('69576de52f8cf3bafb1e2644'),
        policyName: 'Secure Life Plus',
        policyType: 'Life',
        premiumAmount: 18000,
        durationYears: 25
      },
      {
        _id: ObjectId('69576de52f8cf3bafb1e2645'),
        policyName: 'MediCare Gold',
        policyType: 'Health Insurance',
        premiumAmount: 20000,
        durationYears: 10
      },
      {
        _id: ObjectId('69576de52f8cf3bafb1e2646'),
        policyName: 'Auto Protect',
        policyType: 'Car Insurance',
        premiumAmount: 9000,
        durationYears: 7
      },
      {
        _id: ObjectId('69576de52f8cf3bafb1e2647'),
        policyName: 'Marine Shield',

```

MLTI-COLLECTION JOIN:

Customer → Policy → Claims

```
insurance_db> db.customers.aggregate([
...   {
...     $lookup: {
...       from: "policies",
...       localField: "customerId",
...       foreignField: "customerId",
...       as: "policy"
...     }
...   },
...   { $unwind: "$policy" },
...   {
...     $lookup: {
...       from: "claims",
...       localField: "policy.policyId",
...       foreignField: "policyId",
...       as: "claims"
...     }
...   },
...   { $unwind: "$claims" }
... ])
...
[
  {
    _id: ObjectId('69576dd92f8cf3bafb1e263e'),
    firstName: 'Karthik',
    lastName: 'Mehra',
    dateOfBirth: ISODate('1994-08-14T00:00:00.000Z'),
    phone: '9000000000',
    email: 'karthik.mehra@gmail.com',
    policy: {
      _id: ObjectId('69576de52f8cf3bafb1e2644'),
      policyName: 'Secure Life Plus',
      policyType: 'Life',
      premiumAmount: 18000,
      durationYears: 25
    },
    claims: {
      _id: ObjectId('69576e1c2f8cf3bafb1e2661'),
      assignmentId: ObjectId('69576e132f8cf3bafb1e265f'),
      claimDate: ISODate('2022-08-12T00:00:00.000Z'),
      claimAmount: 60000,
      claimStatus: 'Approved'
    }
  },
]
```

ADVANCED \$lookup (JOIN with condition inside JOIN):

Policies with premium > 10,000:

```
insurance_db> db.customers.aggregate([
...   {
...     $lookup: {
...       from: "policies",
...       let: { custId: "$customerId" },
...       pipeline: [
...         {
...           $match: {
...             $expr: {
...               $and: [
...                 { $eq: ["$customerId", "$$custId"] },
...                 { $gt: ["$premium", 10000] }
...               ]
...             }
...           }
...         ]
...       }
...     },
...     as: "highPremiumPolicies"
...   }
... ])
...
[
  {
    _id: ObjectId('69576dd92f8cf3bafb1e263e'),
    firstName: 'Karthik',
    lastName: 'Mehra',
    dateOfBirth: ISODate('1994-08-14T00:00:00.000Z'),
    phone: '9000000000',
    email: 'karthik.mehra@gmail.com',
    highPremiumPolicies: []
  },
  {
    _id: ObjectId('69576dd92f8cf3bafb1e263f'),
    firstName: 'Pooja',
    lastName: 'Nair',
    dateOfBirth: ISODate('1998-02-21T00:00:00.000Z'),
    phone: '9823456702',
    email: 'pooja.nair@gmail.com',
    highPremiumPolicies: []
  },
  {
    _id: ObjectId('69576dd92f8cf3bafb1e2640'),
    firstName: 'Rohan',
    lastName: 'Malik',
    dateOfBirth: ISODate('1992-06-11T00:00:00.000Z'),
    highPremiumPolicies: []
  }
]
```

JOIN with Selected Columns (Projection):

```
insurance_db> db.customers.aggregate([
...   {
...     $lookup: {
...       from: "policies",
...       localField: "customerId",
...       foreignField: "customerId",
...       as: "policy"
...     }
...   },
...   { $unwind: "$policy" },
...   {
...     $project: {
...       name: 1,
...       city: 1,
...       "policy.policyType": 1,
...       "policy.premium": 1
...     }
...   }
... ])
...
[
  {
    _id: ObjectId('69576dd92f8cf3bafb1e263e'),
    policy: { policyType: 'Life' }
  },
  {
    _id: ObjectId('69576dd92f8cf3bafb1e263e'),
    policy: { policyType: 'Health Insurance' }
  },
  {
    _id: ObjectId('69576dd92f8cf3bafb1e263e'),
    policy: { policyType: 'Car Insurance' }
  },
  {
    _id: ObjectId('69576dd92f8cf3bafb1e263e'),
    policy: { policyType: 'Boat Insurance' }
  },
  {
    _id: ObjectId('69576dd92f8cf3bafb1e263e'),
    policy: { policyType: 'Vehicle Insurance' }
  },
  {
    _id: ObjectId('69576dd92f8cf3bafb1e263e'),
    policy: { policyType: 'Property Insurance' }
  }
]
```