SELECT *FROM PATIENTS

PATIENT_ID	name	AGE	GENDER	PHONE	ADDRESS
1	Krishna	50	Male	9123456789	Mysore
2	Shreya	42	Female	7869087623	7th main, valley colony
3	Harshith	29	Male	7869089623	2nd cross, 20th main
4	Kruthika	18	Female	9876543789	9th main road
NULL	NULL	NULL	NULL	NULL	NULL

SELECT *FROM LAB REPORTS

report_id	patient_id	test_name	result	report_date
102	2	RA	High RA factor value	2026-01-26
103	3	Cholestrol	Normal Cholesterol	2026-02-02
104	4	ECG	Normal	2026-01-05
NULL	NULL	NULL	NULL	NULL

Join Operation

name	age	test_name	result	report_date
Shreya	42	RA	High RA factor value	2026-01-26
Harshith	29	Cholestrol	Normal Cholesterol	2026-02-02
Kruthika	18	ECG	Normal	2026-01-05

```
Atlas atlas-8q3cp2-shard-0 [secondary] test> use hospitalDB
switched to db hospitalDB
Atlas atlas-8q3cp2-shard-0 [primary] hospitalDB> db.patients.insertMany([
...    {
...      patient_id: 1,
...      name: "Rahul Sharma",
...      age: 25,
...      gender: "Male",
...      phone: "9876543210",
...      address: "Bangalore"
...    },
...    {
...      patient_id: 2,
...      name: "Ananya Verma",
...      age: 30,
...      gender: "Female",
...      phone: "9123456781",
...      address: "Mumbai"
...    },
...    {
...      patient_id: 3,
...      name: "Karthik R",
...      age: 45,
...      gender: "Male",
...      phone: "9988776655",
...      address: "Chennai"
...    },
...    {
...      patient_id: 4,
...      name: "Sneha Patel",
...      age: 28,
...      gender: "Female",
...      phone: "9012345678",
...      address: "Ahmedabad"
...    },
...    {
...      patient_id: 5,
...      name: "Arjun Mehta",
...      age: 60,
...      gender: "Male",
...      phone: "8899776655",
...      address: "Delhi"
...    }
... ])
...
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId('69807245e567f94876628ca0'),
    '1': ObjectId('69807245e567f94876628ca1'),
```

```
  }
}
Atlas atlas-8q3cp2-shard-0 [primary] hospitalDB> db.labReports.insertMany([
...    {
...      report_id: 101,
...      patient_id: 1,
...      test_name: "Blood Test",
...      result: "Normal",
...      report_date: "2026-01-15"
...    },
...    {
...      report_id: 102,
...      patient_id: 2,
...      test_name: "X-Ray",
...      result: "No Issues",
...      report_date: "2026-01-18"
...    },
...    {
...      report_id: 103,
...      patient_id: 3,
...      test_name: "Diabetes Test",
...      result: "High Sugar",
...      report_date: "2026-01-20"
...    },
...    {
...      report_id: 104,
...      patient_id: 4,
...      test_name: "Urine Test",
...      result: "Normal",
...      report_date: "2026-01-22"
...    },
...    {
...      report_id: 105,
...      patient_id: 5,
...      test_name: "ECG",
...      result: "Minor Abnormality",
...      report_date: "2026-01-25"
...    }
... ])
...
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId('698072a6e567f94876628ca5'),
    '1': ObjectId('698072a6e567f94876628ca6'),
    '2': ObjectId('698072a6e567f94876628ca7'),
    '3': ObjectId('698072a6e567f94876628ca8'),
    '4': ObjectId('698072a6e567f94876628ca9')
  }
}
Atlas atlas-8q3cp2-shard-0 [primary] hospitalDB> db.patients.find().pretty()
```

```
}
Atlas atlas-8q3cp2-shard-0 [primary] hospitalDB> db.patients.find().pretty()
[
  {
    _id: ObjectId('69807245e567f94876628ca0'),
    patient_id: 1,
    name: 'Rahul Sharma',
    age: 25,
    gender: 'Male',
    phone: '9876543210',
    address: 'Bangalore'
  },
  {
    _id: ObjectId('69807245e567f94876628ca1'),
    patient_id: 2,
    name: 'Ananya Verma',
    age: 30,
    gender: 'Female',
    phone: '9123456781',
    address: 'Mumbai'
  },
  {
    _id: ObjectId('69807245e567f94876628ca2'),
    patient_id: 3,
    name: 'Karthik R',
    age: 45,
    gender: 'Male',
    phone: '9988776655',
    address: 'Chennai'
  },
  {
    _id: ObjectId('69807245e567f94876628ca3'),
    patient_id: 4,
    name: 'Sneha Patel',
    age: 28,
    gender: 'Female',
    phone: '9012345678',
    address: 'Ahmedabad'
  },
  {
    _id: ObjectId('69807245e567f94876628ca4'),
    patient_id: 5,
    name: 'Arjun Mehta',
    age: 60,
    gender: 'Male',
    phone: '8899776655',
    address: 'Delhi'
  }
]
Atlas atlas-8q3cp2-shard-0 [primary] hospitalDB> db.labReports.find().pretty()
```

```
    gender: 'Male',
    phone: '8899776655',
    address: 'Delhi'
  }
]
Atlas atlas-8q3cp2-shard-0 [primary] hospitalDB> db.labReports.find().pretty()
[
  {
    _id: ObjectId('698072a6e567f94876628ca5'),
    report_id: 101,
    patient_id: 1,
    test_name: 'Blood Test',
    result: 'Normal',
    report_date: '2026-01-15'
  },
  {
    _id: ObjectId('698072a6e567f94876628ca6'),
    report_id: 102,
    patient_id: 2,
    test_name: 'X-Ray',
    result: 'No Issues',
    report_date: '2026-01-18'
  },
  {
    _id: ObjectId('698072a6e567f94876628ca7'),
    report_id: 103,
    patient_id: 3,
    test_name: 'Diabetes Test',
    result: 'High Sugar',
    report_date: '2026-01-20'
  },
  {
    _id: ObjectId('698072a6e567f94876628ca8'),
    report_id: 104,
    patient_id: 4,
    test_name: 'Urine Test',
    result: 'Normal',
    report_date: '2026-01-22'
  },
  {
    _id: ObjectId('698072a6e567f94876628ca9'),
    report_id: 105,
    patient_id: 5,
    test_name: 'ECG',
    result: 'Minor Abnormality',
    report_date: '2026-01-25'
  }
]
Atlas atlas-8q3cp2-shard-0 [primary] hospitalDB> db.labReports.find({ patient_id: 3 }).pretty()
[
  {
```

```
Atlas atlas-8q3cp2-shard-0 [primary] hospitalDB> db.labReports.find({ patient_id: 3 }).pretty()
[
  {
    _id: ObjectId('698072a6e567f94876628ca7'),
    report_id: 103,
    patient_id: 3,
    test_name: 'Diabetes Test',
    result: 'High Sugar',
    report_date: '2026-01-20'
  }
]
Atlas atlas-8q3cp2-shard-0 [primary] hospitalDB> db.patients.updateOne(
...    { patient_id: 1 },
...    { $set: { address: "Mysore" } }
... )
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
Atlas atlas-8q3cp2-shard-0 [primary] hospitalDB> db.labReports.deleteOne({ report_id: 105 })
{ acknowledged: true, deletedCount: 1 }
Atlas atlas-8q3cp2-shard-0 [primary] hospitalDB> db.patients.deleteOne({ patient_id: 5 })
{ acknowledged: true, deletedCount: 1 }
Atlas atlas-8q3cp2-shard-0 [primary] hospitalDB>
```