**Aim:** Create a temporal database and issue queries on it.

RUN: MongoDB Shell

Code:

**Command to create database:**

---->use TimeseriesData

**Command to make a collection:**

---->db.createCollection(

"weather",

{

timeseries: {

timeField: "timestamp",

metaField: "metadata",

granularity: "hours"

}

}

)

**Command to insert multiple data:**

---->db.weather.insertMany( [

{

"metadata": { "sensorId": 5578, "type": "temperature" },

"timestamp": ISODate("2021-05-18T00:00:00.000Z"),

"temp": 12

},

{

"metadata": { "sensorId": 5578, "type": "temperature" },

"timestamp": ISODate("2021-05-18T04:00:00.000Z"),

"temp": 11

},

{

"metadata": { "sensorId": 5578, "type": "temperature" },

"timestamp": ISODate("2021-05-18T08:00:00.000Z"),

"temp": 11

},

{

"metadata": { "sensorId": 5578, "type": "temperature" },

"timestamp": ISODate("2021-05-18T12:00:00.000Z"),

"temp": 12

},

{

"metadata": { "sensorId": 5578, "type": "temperature" },

"timestamp": ISODate("2021-05-18T16:00:00.000Z"),

"temp": 16

},

{

"metadata": { "sensorId": 5578, "type": "temperature" },

"timestamp": ISODate("2021-05-18T20:00:00.000Z"),

"temp": 15

}, {

"metadata": { "sensorId": 5578, "type": "temperature" },

"timestamp": ISODate("2021-05-19T00:00:00.000Z"),

"temp": 13

},

{

"metadata": { "sensorId": 5578, "type": "temperature" },

"timestamp": ISODate("2021-05-19T04:00:00.000Z"),

"temp": 12

},

{

"metadata": { "sensorId": 5578, "type": "temperature" },

"timestamp": ISODate("2021-05-19T08:00:00.000Z"),

"temp": 11

},

{

"metadata": { "sensorId": 5578, "type": "temperature" },

"timestamp": ISODate("2021-05-19T12:00:00.000Z"),

"temp": 12

},

{

"metadata": { "sensorId": 5578, "type": "temperature" },

"timestamp": ISODate("2021-05-19T16:00:00.000Z"),

"temp": 17

},

{

"metadata": { "sensorId": 5578, "type": "temperature" },

"timestamp": ISODate("2021-05-19T20:00:00.000Z"),

"temp": 12

**Command to view a single data:**

---->db.weather.findOne({

"timestamp": ISODate("2021-05-18T00:00:00.000Z")

})