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213901

Lab6

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| Solution |
| Task Code 1:  var MongoClient = require('mongodb').MongoClient;  var url = "mongodb://localhost:27017/mydb";  MongoClient.connect(url, function(err, db) {  if (err) throw err;  console.log("Database created!");  db.close();  });  Task Output Screenshot:    Task Code2:  var MongoClient = require('mongodb').MongoClient;  var url = "mongodb://localhost:27017/";  MongoClient.connect(url, function(err, db) {  if (err) throw err;  var dbo = db.db("mydb");  dbo.createCollection("customers", function(err, res) {  if (err) throw err;  console.log("Collection created!");  db.close();  });  });  Task Output Screenshot:    Task Code3:  var MongoClient = require('mongodb').MongoClient;  var url = "mongodb://localhost:27017/";  MongoClient.connect(url, function(err, db) {  if (err) throw err;  var dbo = db.db("mydb");  var myobj = { name: "Company Inc", address: "Highway 37" };  dbo.collection("customers").insertOne(myobj, function(err, res) {  if (err) throw err;  console.log("1 document inserted");  db.close();  });  });  Task Output Screenshot:    Task Code4:  var MongoClient = require('mongodb').MongoClient;  var url = "mongodb://localhost:27017/";  MongoClient.connect(url, function(err, db) {  if (err) throw err;  var dbo = db.db("mydb");  var myobj = [  { name: 'John', address: 'Highway 71'},  { name: 'Peter', address: 'Lowstreet 4'},  { name: 'Amy', address: 'Apple st 652'},  { name: 'Hannah', address: 'Mountain 21'},  { name: 'Michael', address: 'Valley 345'},  { name: 'Sandy', address: 'Ocean blvd 2'},  { name: 'Betty', address: 'Green Grass 1'},  { name: 'Richard', address: 'Sky st 331'},  { name: 'Susan', address: 'One way 98'},  { name: 'Vicky', address: 'Yellow Garden 2'},  { name: 'Ben', address: 'Park Lane 38'},  { name: 'William', address: 'Central st 954'},  { name: 'Chuck', address: 'Main Road 989'},  { name: 'Viola', address: 'Sideway 1633'}  ];  dbo.collection("customers").insertMany(myobj, function(err, res) {  if (err) throw err;  console.log("Number of documents inserted: " + res.insertedCount);  db.close();  });  });  Task Output Screenshot:    Task Code5:  var MongoClient = require('mongodb').MongoClient;  var url = "mongodb://localhost:27017/";  MongoClient.connect(url, function(err, db) {  if (err) throw err;  var dbo = db.db("mydb");  var myobj = [  { \_id: 154, name: 'Chocolate Heaven'},  { \_id: 155, name: 'Tasty Lemon'},  { \_id: 156, name: 'Vanilla Dream'}  ];  dbo.collection("products").insertMany(myobj, function(err, res) {  if (err) throw err;  console.log(res);  db.close();  });  });  Task Output Screenshot:    Task Code6:  var MongoClient = require('mongodb').MongoClient;  var url = "mongodb://localhost:27017/";  MongoClient.connect(url, function(err, db) {  if (err) throw err;  var dbo = db.db("mydb");  dbo.collection("customers").findOne({}, function(err, result) {  if (err) throw err;  console.log(result.name);  db.close();  });  });  Task Output Screenshot:    Task Code7:  var MongoClient = require('mongodb').MongoClient;  var url = "mongodb://localhost:27017/";  MongoClient.connect(url, function(err, db) {  if (err) throw err;  var dbo = db.db("mydb");  dbo.collection("customers").find({}, { projection: { \_id: 0, name: 1, address: 1 } }).toArray(function(err, result) {  if (err) throw err;  console.log(result);  db.close();  });  });  Task Output Screenshot:    Task Code8:  var MongoClient = require('mongodb').MongoClient;  var url = "mongodb://localhost:27017/";  MongoClient.connect(url, function(err, db) {  if (err) throw err;  var dbo = db.db("mydb");  var query = { address: "Park Lane 38" };  dbo.collection("customers").find(query).toArray(function(err, result) {  if (err) throw err;  console.log(result);  db.close();  });  });  Task Output Screenshot:    Task Code9:  var MongoClient = require('mongodb').MongoClient;  var url = "mongodb://localhost:27017/";  MongoClient.connect(url, function(err, db) {  if (err) throw err;  var dbo = db.db("mydb");  var mysort = { name: 1 };  dbo.collection("customers").find().sort(mysort).toArray(function(err, result) {  if (err) throw err;  console.log(result);  db.close();  });  });  Task Output Screenshot:    Task Code10:  var MongoClient = require('mongodb').MongoClient;  var url = "mongodb://localhost:27017/";  MongoClient.connect(url, function(err, db) {  if (err) throw err;  var dbo = db.db("mydb");  var myquery = { address: 'Mountain 21' };  dbo.collection("customers").deleteOne(myquery, function(err, obj) {  if (err) throw err;  console.log("1 document deleted");  db.close();  });  });  Task Output Screenshot:    Task Code11:  var MongoClient = require('mongodb').MongoClient;  var url = "mongodb://localhost:27017/";  MongoClient.connect(url, function(err, db) {  if (err) throw err;  var dbo = db.db("mydb");  var myquery = { address: /^O/ };  dbo.collection("customers").deleteMany(myquery, function(err, obj) {  if (err) throw err;  console.log(obj.result.n + " document(s) deleted");  db.close();  });  });  Task Output Screenshot:    Task Code12:  var MongoClient = require('mongodb').MongoClient;  var url = "mongodb://localhost:27017/";  MongoClient.connect(url, function(err, db) {  if (err) throw err;  var dbo = db.db("mydb");  dbo.collection("customers").drop(function(err, delOK) {  if (err) throw err;  if (delOK) console.log("Collection deleted");  db.close();  });  });  Task Output Screenshot:    Task Code13:  var MongoClient = require('mongodb').MongoClient;  var url = "mongodb://127.0.0.1:27017/";  MongoClient.connect(url, function(err, db) {  if (err) throw err;  var dbo = db.db("mydb");  var myquery = { address: "Valley 345" };  var newvalues = { $set: {name: "Mickey", address: "Canyon 123" } };  dbo.collection("customers").updateOne(myquery, newvalues, function(err, res) {  if (err) throw err;  console.log("1 document updated");  db.close();  });  });  Task Output Screenshot:    Task Code14:  var MongoClient = require('mongodb').MongoClient;  var url = "mongodb://localhost:27017/"  MongoClient.connect(url, function(err, db) {  if (err) throw err;  var dbo = db.db("mydb");  dbo.collection("customers").find().limit(5).toArray(function(err, result) {  if (err) throw err;  console.log(result);  db.close();  });  });  Task Output Screenshot:    Task Code15:  var MongoClient = require('mongodb').MongoClient;  var url = "mongodb://127.0.0.1:27017/";  MongoClient.connect(url, function(err, db) {  if (err) throw err;  var dbo = db.db("mydb");  dbo.collection('orders').aggregate([  { $lookup:  {  from: 'products',  localField: 'product\_id',  foreignField: '\_id',  as: 'orderdetails'  }  }  ]).toArray(function(err, res) {  if (err) throw err;  console.log("tables joined");  db.close();  });  });  Task Output Screenshot: |