**CS-213: Advanced Programming**

**Class: BSCS 7AB**

# Lab 5: Node.js MySQL

# Instructor: Dr. Sidra Sultana

**Lab Engineer: Ms. Ayesha Asif**

**Name: Sanan Yaqoob**

**ID: 128908**

# 

# Lab 5: Node.js MySQL

|  |
| --- |
| Solution |
| Task 1 Code:  var mysql = require('mysql');  var con = mysql.createConnection({  host: "localhost",  user: "root",  password: "seecs@123"  });  con.connect(function(err) {  if (err) throw err;  console.log("Connected!");  });  Task 1 Output Screenshot:    Task 2 Code:  var mysql = require('mysql');  var con = mysql.createConnection({  host: "localhost",  user: "root",  password: "seecs@123",  database: "mydb1"  });  con.connect(function(err) {  if (err) throw err;  console.log("Connected!");  var sql = "INSERT INTO customers1 (name, address) VALUES ('Company Inc', 'Highway 37')";  con.query(sql, function (err, result) {  if (err) throw err;  console.log("1 record inserted");  });  });  Task 2 Output Screenshot:    Task 3 Code:  var mysql = require('mysql');  var con = mysql.createConnection({   host: "localhost",   user: "yourusername",   password: "yourpassword" });  con.connect(function(err) {   if (err) throw err;   console.log("Connected!");   con.query("****CREATE DATABASE mydb****", function (err, result) {     if (err) throw err;     console.log("Database created");   }); });  Task 3 Output Screenshot:    Task 4 Code:  var mysql = require('mysql');  var con = mysql.createConnection({  host: "localhost",  user: "root",  password: "seecs@123",  database: "mydb1"  });  con.connect(function(err) {  if (err) throw err;  console.log("Connected!");  var sql = "CREATE TABLE customers (name VARCHAR(255), address VARCHAR(255))";  con.query(sql, function (err, result) {  if (err) throw err;  console.log("Table created");  });  });  Task 4 Output Screenshot:    Task 5 Code:  var mysql = require('mysql');  var con = mysql.createConnection({  host: "localhost",  user: "root",  password: "seecs@123",  database: "mydb1"  });  con.connect(function(err) {  if (err) throw err;  console.log("Connected!");  var sql = "CREATE TABLE customers1 (id INT AUTO\_INCREMENT PRIMARY KEY, name VARCHAR(255), address VARCHAR(255))";  con.query(sql, function (err, result) {  if (err) throw err;  console.log("Table created");  });  });  Task 5 Output Screenshot:    Task 6 Code:  var mysql = require('mysql');  var con = mysql.createConnection({  host: "localhost",  user: "root",  password: "seecs@123",  database: "mydb1"  });  con.connect(function(err) {  if (err) throw err;  console.log("Connected!");  var sql = "INSERT INTO customers1 (name, address) VALUES ('Company Inc', 'Highway 37')";  con.query(sql, function (err, result) {  if (err) throw err;  console.log("1 record inserted");  });  });  Task 6 Output Screenshot:    Task 7 Code:  var mysql = require('mysql');  var con = mysql.createConnection({  host: "localhost",  user: "root",  password: "seecs@123",  database: "mydb1"  });  con.connect(function(err) {  if (err) throw err;  console.log("Connected!");  var sql = "INSERT INTO customers1 (name, address) VALUES ?";  var values = [  ['John', 'Highway 71'],  ['Peter', 'Lowstreet 4'],  ['Amy', 'Apple st 652'],  ['Hannah', 'Mountain 21'],  ['Michael', 'Valley 345'],  ['Sandy', 'Ocean blvd 2'],  ['Betty', 'Green Grass 1'],  ['Richard', 'Sky st 331'],  ['Susan', 'One way 98'],  ['Vicky', 'Yellow Garden 2'],  ['Ben', 'Park Lane 38'],  ['William', 'Central st 954'],  ['Chuck', 'Main Road 989'],  ['Viola', 'Sideway 1633']  ];  con.query(sql, [values], function (err, result) {  if (err) throw err;  console.log("Number of records inserted: " + result.affectedRows);  });  });  Task 7 Output Screenshot:    Task 8 Code:  var mysql = require('mysql');  var con = mysql.createConnection({  host: "localhost",  user: "root",  password: "seecs@123",  database: "mydb1"  });  con.connect(function(err) {  if (err) throw err;  con.query("SELECT \* FROM customers1", function (err, result, fields) {  if (err) throw err;  console.log(result);  });  });  Task 8 Output Screenshot:    Task 9 Code:  var mysql = require('mysql');  var con = mysql.createConnection({  host: "localhost",  user: "root",  password: "seecs@123",  database: "mydb1"  });  con.connect(function(err) {  if (err) throw err;  con.query("SELECT name, address FROM customers1", function (err, result, fields) {  if (err) throw err;  console.log(result);  });  });  Task 9 Output Screenshot:    Task 10 Code:  var mysql = require('mysql');  var con = mysql.createConnection({  host: "localhost",  user: "root",  password: "seecs@123",  database: "mydb1"  });  con.connect(function(err) {  if (err) throw err;  con.query("SELECT name, address FROM customers1", function (err, result, fields) {  if (err) throw err;  console.log(fields);  });  });  Task 10 Output Screenshot:    Task 11 Code:  var mysql = require('mysql');  var con = mysql.createConnection({  host: "localhost",  user: "root",  password: "seecs@123",  database: "mydb1"  });  con.connect(function(err) {  if (err) throw err;  con.query("SELECT \* FROM customers1 WHERE address = 'Park Lane 38'", function (err, result) {  if (err) throw err;  console.log(result);  });  });  Task 11 Output Screenshot:    Task 12 Code:  var mysql = require('mysql');  var con = mysql.createConnection({  host: "localhost",  user: "root",  password: "seecs@123",  database: "mydb1"  });  con.connect(function(err) {  if (err) throw err;  con.query("SELECT \* FROM customers1 WHERE address LIKE 'S%'", function (err, result) {  if (err) throw err;  console.log(result);  });  });  Task 12 Output Screenshot:    Task 13 Code:  var mysql = require('mysql');  var con = mysql.createConnection({  host: "localhost",  user: "root",  password: "seecs@123",  database: "mydb1"  });  con.connect(function(err) {  if (err) throw err;  con.query("SELECT \* FROM customers1 ORDER BY name", function (err, result) {  if (err) throw err;  console.log(result);  });  });  Task 13 Output Screenshot:  Task 14 Code:  var mysql = require('mysql');  var con = mysql.createConnection({  host: "localhost",  user: "root",  password: "seecs@123",  database: "mydb1"  });  con.connect(function(err) {  if (err) throw err;  var sql = "DELETE FROM customers1 WHERE address = 'Mountain 21'";  con.query(sql, function (err, result) {  if (err) throw err;  console.log("Number of records deleted: " + result.affectedRows);  });  });  Task 14 Output Screenshot:    Task 15 Code:  var mysql = require('mysql');  var con = mysql.createConnection({  host: "localhost",  user: "root",  password: "seecs@123",  database: "mydb1"  });  con.connect(function(err) {  if (err) throw err;  var sql = "DROP TABLE customers1";  con.query(sql, function (err, result) {  if (err) throw err;  console.log("Table deleted");  });  });  Task 15 Output Screenshot:    Task 16 Code:  var mysql = require('mysql');  var con = mysql.createConnection({  host: "localhost",  user: "root",  password: "seecs@123",  database: "mydb1"  });  con.connect(function(err) {  if (err) throw err;  var sql = "UPDATE customers1 SET address = 'Canyon 123' WHERE address = 'Valley 345'";  con.query(sql, function (err, result) {  if (err) throw err;  console.log(result.affectedRows + " record(s) updated");  });  });  Task 16 Output Screenshot:    Task 17 Code:  var mysql = require('mysql');  var con = mysql.createConnection({  host: "localhost",  user: "root",  password: "seecs@123",  database: "mydb1"  });  con.connect(function(err) {  if (err) throw err;  var sql = "SELECT \* FROM customers1 LIMIT 5";  con.query(sql, function (err, result) {  if (err) throw err;  console.log(result);  });  });  Task 17 Output Screenshot:    Task 18 Code:  var mysql = require('mysql');  var con = mysql.createConnection({  host: "localhost",  user: "root",  password: "seecs@123",  database: "mydb1"  });  con.connect(function(err) {  if (err) throw err;  var sql = "SELECT users1.name AS user, product1.name AS favourite FROM users1 JOIN product1 ON users1.favourite\_product = product1.id";  con.query(sql, function (err, result) {  if (err) throw err;  console.log(result);  });  });  Task 18 Output Screenshot: |