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Class : BSCS 7A

CMS # 229143

Lab # 5

# Task 1: Code:

var mysql = require('mysql');

var con = mysql.createConnection({

host: "localhost",

user: "root",

password: "wokaphid"

});

con.connect(function(err) {

if (err) throw err;

console.log("Connected!");

});

Output:



Task 3:

Code:

var mysql = require('mysql');

var con = mysql.createConnection({

host: "localhost",

user: "root",

password: "wokaphid"

});

con.connect(function(err) {

if (err) throw err;

console.log("Connected!");

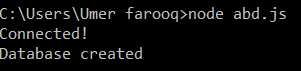
con.query("Create Database mydb",function(err,data){

if (err) throw err;

console.log("Database created");

});

});

Output: 

Task 4: con.connect(function(err) {

if (err) throw err;

console.log("Connected!");

var sql = "CREATE TABLE customers (name VARCHAR(255), address VARCHAR(255))";

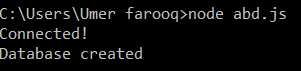
con.query(sql, function (err, result) {

if (err) throw err;

console.log("Database created");

});

});

Output: 

Task 5:

: con.connect(function(err) {

if (err) throw err;

console.log("Connected!");

var sql = "ALTER TABLE customers ADD COLUMN id INT AUTO\_INCREMENT PRIMARY KEY";

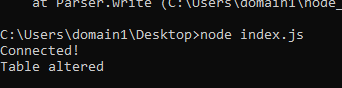
con.query(sql, function (err, result) {

if (err) throw err;

console.log("Table altered");

});

});

Output: 

Task 6:

: con.connect(function(err) {

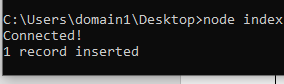
if (err) throw err;

console.log("Connected!");

var sql = "INSERT INTO customers (name, address) VALUES ('Company Inc', 'Highway 68')"; con.query(sql, function (err, result) {

if (err) throw err;

console.log("1 record inserted");

Output: 

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| Task 7  Code:  var mysql = require('mysql');  var con = mysql.createConnection({  host: "localhost",  user: "root",  password: "seecs@123",  database: "mydb"  });  con.connect(function(err) {  if (err) throw err;  console.log("Connected!");  var sql = "INSERT INTO customers (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 Output Screenshot: |

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| Solution |
| Task 8  Code:  var mysql = require('mysql');  var con = mysql.createConnection({  host: "localhost",  user: "root",  password: "seecs@123",  database: "mydb"  });  con.connect(function(err) {  if (err) throw err;    con.query("SELECT \* FROM customers", function (err, result, fields) {  if (err) throw err;  console.log(result);  });  });  Task Output Screenshot: |

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| Solution |
| Task 9  Code:  var mysql = require('mysql');  var con = mysql.createConnection({  host: "localhost",  user: "root",  password: "seecs@123",  database: "mydb"  });  con.connect(function(err) {  if (err) throw err;    con.query("SELECT name, address FROM customers", function (err, result, fields) {  if (err) throw err;  console.log(result);  });  });  Task Output Screenshot: |

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| Solution |
| Task 10  Code:  var mysql = require('mysql');  var con = mysql.createConnection({  host: "localhost",  user: "root",  password: "seecs@123",  database: "mydb"  });  con.connect(function(err) {  if (err) throw err;    con.query("SELECT name, address FROM customers", function (err, result, fields) {  if (err) throw err;  console.log(fields);  });  });  Task Output Screenshot: |

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| Solution |
| Task 11  Code:  var mysql = require('mysql');  var con = mysql.createConnection({  host: "localhost",  user: "root",  password: "seecs@123",  database: "mydb"  });  con.connect(function(err) {  if (err) throw err;    con.query("SELECT \* FROM customers WHERE address = 'Park Lane 38'", function (err, result) {  if (err) throw err;  console.log(result);  });  });  Task Output Screenshot: |

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| Solution |
| Task 12  Code:  var mysql = require('mysql');  var con = mysql.createConnection({  host: "localhost",  user: "root",  password: "seecs@123",  database: "mydb"  });  con.connect(function(err) {  if (err) throw err;    con.query("SELECT \* FROM customers WHERE address LIKE 'S%'", function (err, result) {  if (err) throw err;  console.log(result);  });  });  Task Output Screenshot: |

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| Solution |
| Task 13  Code:  var mysql = require('mysql');  var con = mysql.createConnection({  host: "localhost",  user: "root",  password: "seecs@123",  database: "mydb"  });  con.connect(function(err) {  if (err) throw err;    con.query("SELECT \* FROM customers ORDER BY name", function (err, result) {  if (err) throw err;  console.log(result);  });  });  Task Output Screenshot: |

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| Solution |
| Task 14  Code:  var mysql = require('mysql');  var con = mysql.createConnection({  host: "localhost",  user: "root",  password: "seecs@123",  database: "mydb"  });  con.connect(function(err) {  if (err) throw err;    var sql = "DELETE FROM customers WHERE address = 'Mountain 21'";  con.query(sql, function (err, result) {  if (err) throw err;  console.log("Number of records deleted: " + result.affectedRows);  });  });  Task Output Screenshot: |

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| Solution |
| Task 15  Code:  var mysql = require('mysql');  var con = mysql.createConnection({  host: "localhost",  user: "root",  password: "seecs@123",  database: "mydb"  });  con.connect(function(err) {  if (err) throw err;    sql = "DROP TABLE customers";  con.query(sql, function (err, result) {  if (err) throw err;  console.log("Table deleted");  });  });  Task Output Screenshot: |

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| Solution |
| Task 16  Code:  con.connect(function(err) {  if (err) throw err;  var sql = "UPDATE customers 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 Output Screenshot: |

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| Solution |
| Task 17  Code:  con.connect(function(err) {  if (err) throw err;  var sql = "SELECT \* FROM customers LIMIT 5";  con.query(sql, function (err, result) {  if (err) throw err;  console.log(result);  });  });  Task Output Screenshot: |

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| Solution |
| Task 18  Code: Code: con.connect(function(err) {  if (err) throw err;  var sql = "SELECT users.name AS user, products.name AS favorite FROM users JOIN products ON users.favorite\_product = products.id";  con.query(sql, function (err, result) {  if (err) throw err;  console.log(result);  });  });  LEFT JOIN:  con.connect(function(err) {  if (err) throw err;  var sql = "SELECT users.name AS user, products.name AS favorite FROM users LEFT JOIN products ON users.favorite\_product = products.id";  con.query(sql, function (err, result) {  if (err) throw err;  console.log(result);  });  });  Task Output Screenshot: |