**Advanced Programming Lab 5**

**Submitted by: Daud Nasir Cheema (209563)**

**Task 1:**

var mysql = require('mysql');

var con = mysql.createConnection({

host: "localhost",

user: "root",

password: "seecs@123"

});

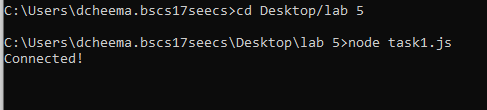
con.connect(function(err) {

if (err) throw err;

console.log("Connected!");

});

**Output:**



**Task 2 (performed after task 7, waited for table population):**

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!");

con.query("select \* from customers", function(err, result){

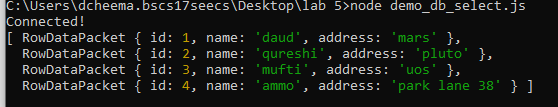
if (err) throw err;

console.log(result);

});

});

**Output:**



**Task 3:**

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!");

con.query("create database mydb", function(err, result){

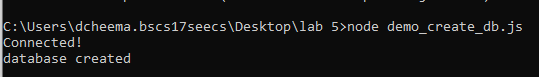
if (err) throw err;

console.log("database created");

});

});

**Output:**



**Task 4:**

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!");

con.query("create table customers (id integer, name varchar(255), address varchar(255))", function(err, result){

if (err) throw err;

console.log("table created");

});

});

**Output:**



**Task 5:**

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!");

con.query("alter table customers add constraint my\_primary primary key (id)", function(err, result){

if (err) throw err;

console.log("id column was made primary key");

});

});

**Output:**



**Task 6:**

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!");

con.query("insert into customers values(1, 'daud', 'mars')", function(err, result){

if (err) throw err;

console.log("1 row inserted.");

});

});

**Output:**



**Task 7:**

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 q = "insert into customers values ?"

var values= [

[2,"qureshi", "pluto"],

[3, "mufti", "uos"],

[4, "ammo", "park lane 38"]

];

con.query(q, [values], function(err, result){

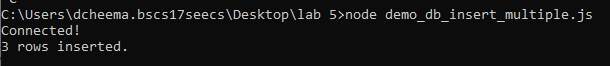
if (err) throw err;

console.log("3 rows inserted.");

});

});

**Output:**



**Task 8:**

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!");

con.query("select \* from customers", function(err, result){

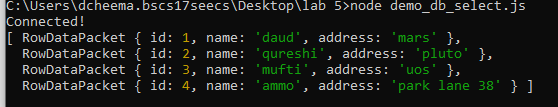
if (err) throw err;

console.log(result);

});

});

**Output:**



**Task 9:**

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!");

con.query("select name, address from customers", function(err, result){

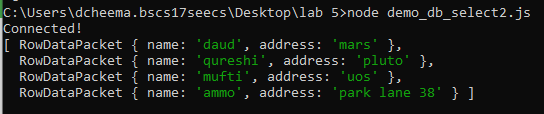
if (err) throw err;

console.log(result);

});

});

**Output:**



**Task 10:**

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!");

con.query("select \* from customers", function(err, result, fields){

if (err) throw err;

console.log(fields);

});

});

**Output:**



**Task 11:**

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!");

con.query("select \* from customers where address = 'park lane 38'", function(err, result){

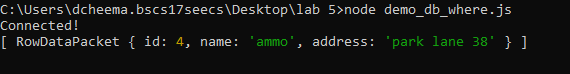
if (err) throw err;

console.log(result);

});

});

**Output:**



**Task 12:**

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!");

con.query("select \* from customers where address like 's%'", function(err, result){

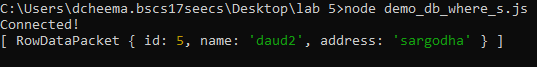
if (err) throw err;

console.log(result);

});

});

**Output:**



**Task 13:**

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!");

con.query("select \* from customers where address like 's%' order by name", function(err, result){

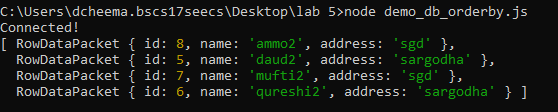
if (err) throw err;

console.log(result);

});

});

**Output:**



**Task 14:**

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!");

con.query("delete from customers where address = 'pluto'", function(err, result){

if (err) throw err;

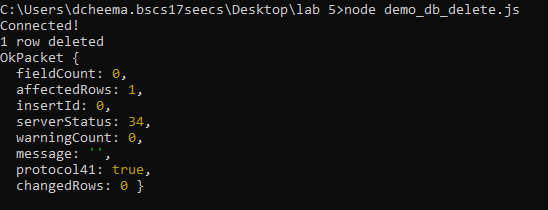
console.log("1 row deleted");

console.log(result);

});

});

**Output:**



**Task 15 (performed in the end):**

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!");

con.query("drop table customers", function(err, result){

if (err) throw err;

console.log("table dropped");

});

});

**Output:**



**Task 16:**

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!");

con.query("update customers set address = 'earth' where address='mars'", function(err, result){

if (err) throw err;

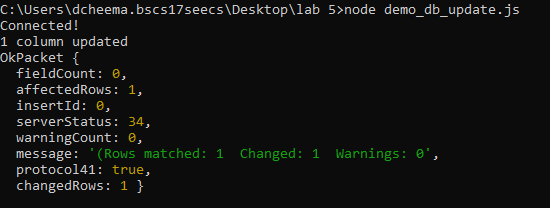
console.log("1 column updated");

console.log(result);

});

});

**Output:**



**Task 17:**

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!");

con.query("select \* from customers limit 5", function(err, result){

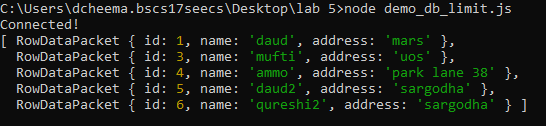
if (err) throw err;

console.log(result);

});

});

**Output:**



**Task 18:**

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!");

con.query("select customers.id, customers.name, customers3.pay from customers inner join customers3 on customers.id=customers3.id;", function(err, result){

if (err) throw err;

console.log(result);

});

});

**Output:**

