**Nodejs DB Operation**

**Task1:** Using Handlebar, create HTML page that contains following information

Subject-Code, Subject-Name (Text-box)

Institute-Name (Text-box)

Department-Name (Text-box)

Semester=>Dropdown menu

**Task2:** Store above information into MySQL database and display

**Index.js**

const express = require("express");

const hbs = require("express-handlebars");

const bodyParser = require("body-parser");

const mysql = require('mysql');

const connection = mysql.createConnection({

    host: 'localhost',

    user: 'root',

    password: '',

    database: 'university'

});

connection.connect((err) => {

    if (err) throw err;

    console.log("Connected successfully to MySql server")

});

const app = express();

app.use(bodyParser());

app.set("view engine", "hbs")

app.engine("hbs", hbs({

    layoutsDir: `${\_\_dirname}/views/layouts`,

    extname: "hbs",

    defaultLayout: "home",

    partialsDir: `${\_\_dirname}/views/partials`

}))

app.get("/", (req, res) => {

    res.render("main");

})

app.post("/insert", (req, res) => {

    const dbInsert = `INSERT INTO course

    (subjectcode, subjectname, institutename, departmentname, semester)

    VALUES ('${req.body.subjectcode}', '${req.body.subjectname}', '${req.body.institutename}', '${req.body.departmentname}', '${req.body.semester}')`;

    connection.query(dbInsert, (err, result) => {

        if (err) {

            res.render("inserterror");

        }

        else {

            res.render("insert", {

                subject: {

                    subjectCode: req.body.subjectcode,

                    subjectName: req.body.subjectname,

                    instituteName: req.body.institutename,

                    departmentName: req.body.departmentname,

                    semester: req.body.semester

                }

            });

        }

    });

})

app.get("/show", (req, res) => {

    let getAllCourses = "SELECT \* FROM course";

    connection.query(getAllCourses, (err, result) => {

        if (err) {

            res.render("showerror");

        }

        else {

            console.log(result);

            res.render("show", {

                subjects: result

            });

        }

    });

})

app.listen(3000, () => { console.log("Server is listening on port 3000"); });

**home.hbs**

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta http-equiv="X-UA-Compatible" content="IE=edge">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Document</title>

    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.0/dist/css/bootstrap.min.css" rel="stylesheet"

        integrity="sha384-KyZXEAg3QhqLMpG8r+8fhAXLRk2vvoC2f3B09zVXn8CA5QIVfZOJ3BCsw2P0p/We" crossorigin="anonymous">

</head>

<body class="bg-secondary">

    {{> header}}

    {{{body}}}

    {{> footer}}

</body>

</html>

**Header.hbs**

<nav class="navbar navbar-expand-lg navbar-dark bg-dark">

    <div class="container-fluid">

        <div class="navbar-brand" href="#">Courses's Portal</div>

        <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navbarSupportedContent"

            aria-controls="navbarSupportedContent" aria-expanded="false" aria-label="Toggle navigation">

            <span class="navbar-toggler-icon"></span>

        </button>

        <div class="collapse navbar-collapse" id="navbarSupportedContent">

            <ul class="navbar-nav me-auto mb-2 mb-lg-0">

                <li class="nav-item">

                    <a class="nav-link active" aria-current="page" href="/">Home</a>

                </li>

                <li class="nav-item">

                    <a class="nav-link active" aria-current="page" href="/show">Show</a>

                </li>

            </ul>

        </div>

    </div>

</nav>

**Footer.hbs**

<footer class="footer py-3 bg-dark" style="position: absolute; bottom:0px; left: 0px; width: 100%;">

    <div class="container">

        <span class="text-muted">Copyrighted by Charusat.</span>

    </div>

</footer>

**Main.hbs**

<div class="container-fluid">

    <form action="/insert" method="post">

        <div class="card border-info  mt-5 w-75 mx-auto">

            <div class="card-header  bg-dark text-white" style="font-size: 25px;text-align: center;">

                Add Details

            </div>

            <div class="card-body">

                <div class="row mt-2">

                    <div class="col-md-2 mt-1">

                        <label for="" style="font-size: 20px;">Subject Code</label>

                    </div>

                    <div class="col-md-4">

                        <input type="text" name="subjectcode" class="form-control">

                    </div>

                </div>

                <div class="row mt-2">

                    <div class="col-md-2 mt-1">

                        <label for="" style="font-size: 20px;">Subject Name</label>

                    </div>

                    <div class="col-md-4">

                        <input type="text" name="subjectname" class="form-control">

                    </div>

                </div>

                <div class="row mt-2">

                    <div class="col-md-2 mt-1">

                        <label for="" style="font-size: 20px;">Institute Name</label>

                    </div>

                    <div class="col-md-4">

                        <input type="text" name="institutename" class="form-control">

                    </div>

                </div>

                <div class="row mt-2">

                    <div class="col-md-2 mt-1">

                        <label for="" style="font-size: 20px;">Department Name</label>

                    </div>

                    <div class="col-md-4">

                        <input type="text" name="departmentname" class="form-control">

                    </div>

                </div>

                <div class="row mt-2">

                    <div class="col-md-2 mt-1">

                        <label for="" style="font-size: 20px;">Semester</label>

                    </div>

                    <div class="col-md-4">

                        <select name="semester" id="" class="form-select">

                            <option value="1st">1st</option>

                            <option value="2nd">2nd</option>

                            <option value="3rd">3rd</option>

                            <option value="4th">4th</option>

                            <option value="5th">5th</option>

                            <option value="6th">6th</option>

                        </select>

                    </div>

                </div>

                <div class="row mt-2">

                    <div class="col-md-1">

                        <button class="btn btn-dark">Insert</button>

                    </div>

                </div>

            </div>

        </div>

    </form>

</div>

**Insert.hbs**

<div class="card border-info  mt-5 w-75 mx-auto">

    <div class="card-header bg-dark text-white" style="font-size: 25px;text-align: center;">

        Show Details

    </div>

    <div class="card-body">

        <div class="container-fluid">

            <div class="justify-content-md-center mt-5">

                <table class="table table-bordered table-dark">

                    <thead>

                        <tr>

                            <td width="50%">Field</td>

                            <td width="50%">Value</td>

                        </tr>

                    </thead>

                    <tbody>

                        <tr>

                            <td>Subject Code</td>

                            <td>{{ subject.subjectCode }}</td>

                        </tr>

                        <tr>

                            <td>Subject Name</td>

                            <td>{{ subject.subjectName }}</td>

                        </tr>

                        <tr>

                            <td>Institute Name</td>

                            <td>{{ subject.instituteName }}</td>

                        </tr>

                        <tr>

                            <td>Department Name</td>

                            <td>{{ subject.departmentName }}</td>

                        </tr>

                        <tr>

                            <td>Semester</td>

                            <td>{{ subject.semester }}</td>

                        </tr>

                    </tbody>

                </table>

            </div>

        </div>

    </div>

</div>

**Show.hbs**

<div class="card border-info  mt-5 w-75 mx-auto">

    <div class="card-header bg-dark text-white" style="font-size: 25px;text-align: center;">

        Show Details

    </div>

    <div class="card-body">

        <div class="container-fluid">

            <div class="justify-content-md-center mt-5">

                <table class="table table-bordered table-dark">

                    <thead>

                        <tr>

                            <td>Subject Code</td>

                            <td>Subject Name</td>

                            <td>Institute Name</td>

                            <td>Department Name</td>

                            <td>Semester</td>

                        </tr>

                    </thead>

                    <tbody>

                        {{#each subjects}}

                        <tr>

                            <td>{{ subjectcode }}</td>

                            <td>{{ subjectname }}</td>

                            <td>{{ institutename }}</td>

                            <td>{{ departmentname }}</td>

                            <td>{{ semester }}</td>

                        </tr>

                        {{/each}}

                    </tbody>

                </table>

            </div>

        </div>

    </div>

</div>

**InsertError.hbs**

<div class="toast align-items-center text-white bg-primary border-0" role="alert" aria-live="assertive" aria-atomic="true">

  <div class="d-flex">

    <div class="toast-body">

      Error While Inserting Course....

    </div>

    <button type="button" class="btn-close btn-close-white me-2 m-auto" data-bs-dismiss="toast" aria-label="Close"></button>

  </div>

</div>

**ShowError.hbs**

<div class="toast align-items-center text-white bg-primary border-0" role="alert" aria-live="assertive" aria-atomic="true">

  <div class="d-flex">

    <div class="toast-body">

      Error While Fetching Course Datas...

    </div>

    <button type="button" class="btn-close btn-close-white me-2 m-auto" data-bs-dismiss="toast" aria-label="Close"></button>

  </div>

</div>

**Output:**







