Here's a **full CRUD** (**Create, Read, Update, Delete**) example using **Express.js**, **MySQL**, and **EJS** — all in a clean, beginner-friendly format.

☐ FULL CRUD APP: Users Table

□ Database Setup

In MySQL:

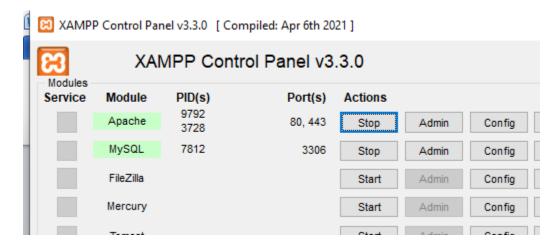
```
CREATE DATABASE omsir;

USE omsir;

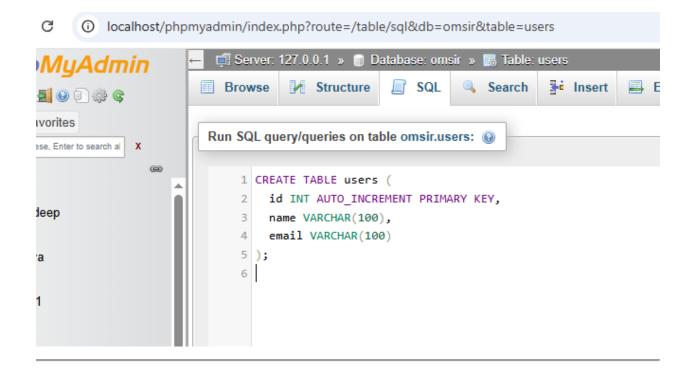
CREATE TABLE users (
  id INT AUTO_INCREMENT PRIMARY KEY,
  name VARCHAR(100),
  email VARCHAR(100));

As shown below :-

Run xampp software and start as shown below
```



And open your localhost/phpyamdin



☐ Install Needed Packages

In your project folder:

```
npm init -y
npm install express mysql body-parser ejs
```

☐ Project Structure

```
express-js/

views/
form.ejs
edit.ejs
app.js
```

☐ 1. app.js – Full Express Logic:-

```
const express = require('express');
const mysql = require('mysql');
const bodyParser = require('body-parser');
const path = require('path');
const app = express();
const PORT = 3000;
// MySQL connection
const db = mysql.createConnection({
 host: 'localhost',
 user: 'root',
 password: '', // your MySQL password
 database: 'testdb'
});
db.connect(err => {
 if (err) throw err;
  console.log('Connected to MySQL');
// Middleware
app.use(bodyParser.urlencoded({ extended: false }));
app.set('view engine', 'ejs');
app.set('views', path.join( dirname, 'views'));
//\ \square READ: Display form and user list
app.get('/', (req, res) => {
  const sql = 'SELECT * FROM users';
  db.query(sql, (err, results) => {
    if (err) throw err;
    res.render('form', { users: results });
  });
});
// \square CREATE: Insert new user
app.post('/add-user', (req, res) => {
 const { name, email } = req.body;
  const sql = 'INSERT INTO users (name, email) VALUES (?, ?)';
  db.query(sql, [name, email], err => {
    if (err) throw err;
    res.redirect('/');
 });
});
// \square UPDATE: Show edit form
app.get('/edit/:id', (req, res) => {
  const sql = 'SELECT * FROM users WHERE id = ?';
  db.query(sql, [req.params.id], (err, results) => {
    if (err) throw err;
    res.render('edit', { user: results[0] });
  });
});
```

```
// □ UPDATE: Save edited user
app.post('/update-user/:id', (req, res) => {
  const { name, email } = req.body;
  const sql = 'UPDATE users SET name = ?, email = ? WHERE id = ?';
  db.query(sql, [name, email, req.params.id], err => {
   if (err) throw err;
   res.redirect('/');
 });
});
// □ DELETE: Remove user
app.get('/delete/:id', (req, res) => {
  const sql = 'DELETE FROM users WHERE id = ?';
  db.query(sql, [req.params.id], err => {
    if (err) throw err;
    res.redirect('/');
  });
});
// Start server
app.listen(PORT, () => {
  console.log(`Server running at http://localhost:${PORT}`);
```

□ 2. views/form.ejs – Create + Read + Delete + Edit Links

```
<!DOCTYPE html>
<html>
<head>
 <title>User Management</title>
 <style>
   table { border-collapse: collapse; width: 60%; margin-top: 20px; }
   th, td { border: 1px solid #ccc; padding: 10px; text-align: left; }
   form { margin-bottom: 20px; }
 </style>
</head>
<body>
 <h2>Add User</h2>
 <form action="/add-user" method="POST">
   <label>Name:</label><br>
   <input type="text" name="name" required><br><br>
   <label>Email:</label><br>
   <input type="email" name="email" required><br><br>
   <input type="submit" value="Submit">
 <h2>User List</h2>
 IDNameEmailActions
   <% if (users.length > 0) { %>
     <% users.forEach(user => { %>
```

```
<\td><\\= user.id \%>
        <\td><\\= user.name \%>
        <\td><\\= user.email \%>
        <a href="/edit/<%= user.id %>">Edit</a> |
         <a href="/delete/<%= user.id %>" onclick="return confirm('Delete
this user?')">Delete</a>
        <% }) %>
   <% } else { %>
     No users found.
   <% } %>
 </body>
</html>
```

🖘 🗆 3. views/edit.ejs — Update User Form

```
<!DOCTYPE html>
<html>
<head>
 <title>Edit User</title>
<body>
  <h2>Edit User</h2>
  <form action="/update-user/<%= user.id %>" method="POST">
    <label>Name:</label><br>
    <input type="text" name="name" value="<%= user.name %>" required><br><br>
    <label>Email:</label><br>
    <input type="email" name="email" value="<%= user.email %>"
required><br><br>
    <input type="submit" value="Update">
  <a href="/">Cancel</a>
</body>
</html>
```

ID N	F1	A				
User List						
Submit						
Email:						
Name:						
Add User						
← → ♂ ① localhost:3000						
- Defete users						
□ Delete users						
•						
□ I rad users□ List users						
• □ Add users						
□ Features:						
□ Done!						

ID	1	Name	Email	Actions
1		om sir	omnetworkom@gmail.com	Edit Delete
3	1	NARGIS digital	narigs@gmail.com	Edit Delete