

## Лабораторна робота №2

Для отримання даних та їх відображення були створені наступні контролери та відображення:

Контроллери Cars:

```
'use server'

import {sql} from "@vercel/postgres";
import {revalidatePath} from "next/cache";

export async function GET(id: number = -1) {
  return id === -1 ? (await sql`SELECT *
                                FROM Cars;`).rows : (await sql`SELECT *
                                FROM Cars
                                WHERE id =
                                ${id};`).rows
}

export async function POST(formData: FormData) {
  try {
    await sql`INSERT INTO Cars (Brand, Model, Year, Price)
              VALUES (${formData.get('brand')},
                      ${formData.get('model')},
                      ${formData.get('year')},
                      ${formData.get('price')});
    `;
    revalidatePath('/cars');
    return true;
  } catch (e) {
    return false;
  }
}

export async function PATCH(formData: FormData) {
  try {
    await sql`UPDATE Cars
              SET Brand = ${formData.get('brand')},
                  Model = ${formData.get('model')},
                  Year = ${formData.get('year')},
                  Price = ${formData.get('price')}
              WHERE id = ${formData.get('id')};
    `;
    revalidatePath('/cars');
    return true;
  } catch (e) {
    return false;
  }
}

export async function DELETE(formData: FormData) {
  await sql`DELETE
            FROM Cars
            WHERE id = ${formData.get('id')};`
  revalidatePath('/cars');
}
```

## Контролери Customers:

```
'use server';
import {sql} from "@vercel/postgres";
import {revalidatePath} from "next/cache";

export async function GET(id: number = -1) {
  return id === -1
    ? (await sql`SELECT *
      FROM Customers;`).rows
    : (await sql`SELECT *
      FROM Customers
      WHERE id = ${id};`).rows;
}

export async function POST(formData: FormData) {
  try {
    await sql`INSERT INTO Customers (FirstName, LastName, Email, Phone)
      VALUES (${formData.get("firstname")},
        ${formData.get("lastname")},
        ${formData.get("email")},
        ${formData.get("phone")});
    `;
    revalidatePath("/customers");
    return true;
  } catch (e) {
    return false;
  }
}

export async function PATCH(formData: FormData) {
  try {
    await sql`UPDATE Customers
      SET FirstName = ${formData.get("firstname")},
        LastName = ${formData.get("lastname")},
        Email = ${formData.get("email")},
        Phone = ${formData.get("phone")}
      WHERE id = ${formData.get("id")};
    `;
    revalidatePath("/customers");
    return true;
  } catch (e) {
    return false;
  }
}

export async function DELETE(formData: FormData) {
  await sql`DELETE
    FROM Customers
    WHERE id = ${formData.get("id")};`;
  revalidatePath("/customers");
}
```

## Контролери Employees:

```
'use server';
import {sql} from "@vercel/postgres";
import {revalidatePath} from "next/cache";
```

```

export async function GET(id: number = -1) {
  return id === -1
    ? (await sql`SELECT *
      FROM Employees;`).rows
    : (await sql`SELECT *
      FROM Employees
      WHERE id = ${id};`).rows;
}

export async function POST(formData: FormData) {
  try {
    await sql`INSERT INTO Employees (Firstname, Lastname, Position, Salary,
    Password)
      VALUES (${formData.get('firstname')},
        ${formData.get('lastname')},
        ${formData.get('position')},
        ${formData.get('salary')},
        ${formData.get('password')});
    `;
    revalidatePath('/employees');
    return true;
  } catch (e) {
    return false;
  }
}

export async function PATCH(formData: FormData) {
  try {
    await sql`UPDATE Employees
      SET Firstname = ${formData.get('firstname')},
        Lastname = ${formData.get('lastname')},
        Position = ${formData.get('position')},
        Salary = ${formData.get('salary')},
        Password = ${formData.get('password')}
      WHERE id = ${formData.get('id')};
    `;
    revalidatePath('/employees');
    return true;
  } catch (e) {
    return false;
  }
}

export async function DELETE(formData: FormData) {
  await sql`DELETE
    FROM Employees
    WHERE id = ${formData.get('id')};`;
  revalidatePath('/employees');
}

```

## Контролери Sales:

```

'use server';
import {sql} from "@vercel/postgres";
import {revalidatePath} from "next/cache";

export async function GET(id: number = -1) {
  return id === -1
    ? (await sql`SELECT *

```

```

        FROM Sales;`).rows
    : (await sql`SELECT *
        FROM Sales
        WHERE id = ${id};`).rows;
}

export async function POST(formData: FormData) {
  try {
    await sql`INSERT INTO Sales (CarID, CustomerID, SaleDate, SalePrice)
        VALUES (${formData.get('carid')},
            ${formData.get('customerid')},
            ${formData.get('saledate')},
            ${formData.get('saleprice')});
    `;
    revalidatePath('/sales');
    return true;
  } catch (e) {
    console.log(e);
    return false;
  }
}

export async function PATCH(formData: FormData) {
  try {
    await sql`UPDATE Sales
        SET CarID      = ${formData.get('carid')},
            CustomerID = ${formData.get('customerid')},
            SaleDate   = ${formData.get('saledate')},
            SalePrice  = ${formData.get('saleprice')}
        WHERE Id = ${formData.get('id')};
    `;
    revalidatePath('/sales');
    return true;
  } catch (e) {
    return false;
  }
}

export async function DELETE(formData: FormData) {
  await sql`DELETE
        FROM Sales
        WHERE Id = ${formData.get('id')};
    `;
  revalidatePath('/sales');
}

```

## Контролери Services:

```

'use server';
import {sql} from "@vercel/postgres";
import {revalidatePath} from "next/cache";

export async function GET(id = -1) {
  return id === -1
    ? (await sql`SELECT *
        FROM Services;`).rows
    : (await sql`SELECT *
        FROM Services
        WHERE id = ${id};`).rows;
}

```

```

}

export async function POST(formData) {
  try {
    await sql`INSERT INTO Services (Service_name, Description, Price)
      VALUES (${formData.get('service_name')},
        ${formData.get('description')},
        ${formData.get('price')});

    `;
    revalidatePath('/services');
    return true;
  } catch (e) {
    console.log(e)
    return false;
  }
}

export async function PATCH(formData) {
  try {
    await sql`UPDATE Services
      SET Service_Name = ${formData.get('service_name')},
        Description = ${formData.get('description')},
        Price = ${formData.get('price')}
      WHERE id = ${formData.get('id')};

    `;
    revalidatePath('/services');
    return true;
  } catch (e) {
    return false;
  }
}

export async function DELETE(formData) {
  await sql`DELETE
    FROM Services
    WHERE id = ${formData.get('id')};

  `;
  revalidatePath('/services');
}

```

## Представлення Cars:

```

<table className="min-w-full">
  <thead>
    <tr>
      <th className="px-6 py-3 bg-gray-50 dark:bg-gray-800 text-left text-xs
        leading-4 font-medium text-gray-500 dark:text-gray-400 uppercase tracking-wider">
        Brand
      </th>
      <th className="px-6 py-3 bg-gray-50 dark:bg-gray-800 text-left text-xs
        leading-4 font-medium text-gray-500 dark:text-gray-400 uppercase tracking-wider">
        Model
      </th>
      <th className="px-6 py-3 bg-gray-50 dark:bg-gray-800 text-left text-xs
        leading-4 font-medium text-gray-500 dark:text-gray-400 uppercase tracking-wider">
        Year
      </th>
      <th className="px-6 py-3 bg-gray-50 dark:bg-gray-800 text-left text-xs
        leading-4 font-medium text-gray-500 dark:text-gray-400 uppercase tracking-wider">
        Price
      </th>
    </tr>
  </thead>
</table>

```

```

        <th className="px-6 py-3 bg-gray-50 dark:bg-gray-800 text-left text-xs
leading-4 font-medium text-gray-500 dark:text-gray-400 uppercase tracking-wider">
            Actions
        </th>
    </tr>
</thead>
<tbody className="bg-white dark:bg-gray-900 divide-y divide-gray-200
dark:divide-gray-700">
    {data.map((car) => (
        <tr key={car.id}>
            <td className="px-6 py-4 whitespace-no-wrap">{car.brand}</td>
            <td className="px-6 py-4 whitespace-no-wrap">{car.model}</td>
            <td className="px-6 py-4 whitespace-no-wrap">{car.year}</td>
            <td className="px-6 py-4 whitespace-no-wrap">{car.price}</td>
            <td className="px-6 py-4 whitespace-no-wrap">
                </td>
            </tr>
        )))
    </tbody>
</table>

```

Autosalon

[Cars](#)
[Customers](#)
[Employees](#)
[Sales](#)
[Services](#)

BRAND	MODEL	YEAR	PRICE	ACTIONS
Toyota	Camry	2022	25000.00	<div>Delete</div> <div>Edit</div>
Honda	Civic	2022	22000.00	<div>Delete</div> <div>Edit</div>
Ford	F-150	2022	35000.00	<div>Delete</div> <div>Edit</div>
Chevrolet	Malibu	2022	24000.00	<div>Delete</div> <div>Edit</div>
Nissan	Altima	2021	23000.00	<div>Delete</div> <div>Edit</div>

Add record

## Представлення Customers:

```

<table className="min-w-full">
    <thead>
        <tr>
            <th className="px-6 py-3 bg-gray-50 dark:bg-gray-800 text-left text-xs
leading-4 font-medium text-gray-500 dark:text-gray-400 uppercase tracking-wider">
                First Name
            </th>
            <th className="px-6 py-3 bg-gray-50 dark:bg-gray-800 text-left text-xs
leading-4 font-medium text-gray-500 dark:text-gray-400 uppercase tracking-wider">
                Last Name
            </th>
            <th className="px-6 py-3 bg-gray-50 dark:bg-gray-800 text-left text-xs
leading-4 font-medium text-gray-500 dark:text-gray-400 uppercase tracking-wider">
                Email
            </th>

```

```

        <th className="px-6 py-3 bg-gray-50 dark:bg-gray-800 text-left text-xs
leading-4 font-medium text-gray-500 dark:text-gray-400 uppercase tracking-wider">
        Phone
    </th>
    <th className="px-6 py-3 bg-gray-50 dark:bg-gray-800 text-left text-xs
leading-4 font-medium text-gray-500 dark:text-gray-400 uppercase tracking-wider">
        Actions
    </th>
</tr>
</thead>
<tbody className="bg-white dark:bg-gray-900 divide-y divide-gray-200
dark:divide-gray-700">
    {data.map((customer) => (
        <tr key={customer.id}>
            <td className="px-6 py-4 whitespace-no-wrap">{customer.firstname}</td>
            <td className="px-6 py-4 whitespace-no-wrap">{customer.lastname}</td>
            <td className="px-6 py-4 whitespace-no-wrap">{customer.email}</td>
            <td className="px-6 py-4 whitespace-no-wrap">{customer.phone}</td>
            <td className="px-6 py-4 whitespace-no-wrap">
                </td>
            </tr>
        ))}
    </tbody>
</table>

```

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[Cars](#)
[Customers](#)
[Employees](#)
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[Services](#)

First Name	Last Name	Email	Phone	Actions
John	Doe	john.doe@email.com	+1234567890	<div>Delete</div> <div>Edit</div>
Jane	Smith	jane.smith@email.com	+9876543210	<div>Delete</div> <div>Edit</div>
Bob	Johnson	bob.johnson@email.com	+5678901234	<div>Delete</div> <div>Edit</div>
Alice	Brown	alice.brown@email.com	+4321098765	<div>Delete</div> <div>Edit</div>
David	Pee	david.pee@email.com	+8765432109	<div>Delete</div> <div>Edit</div>

Add record

## Представлення Employees:

```

<table className="min-w-full">
    <thead>
        <tr>
            <th className="px-6 py-3 bg-gray-50 dark:bg-gray-800 text-left text-xs
leading-4 font-medium text-gray-500 dark:text-gray-400 uppercase tracking-wider">
                First Name
            </th>
            <th className="px-6 py-3 bg-gray-50 dark:bg-gray-800 text-left text-xs
leading-4 font-medium text-gray-500 dark:text-gray-400 uppercase tracking-wider">
                Last Name
            </th>

```

```

        <th className="px-6 py-3 bg-gray-50 dark:bg-gray-800 text-left text-xs
leading-4 font-medium text-gray-500 dark:text-gray-400 uppercase tracking-wider">
          Position
        </th>
        <th className="px-6 py-3 bg-gray-50 dark:bg-gray-800 text-left text-xs
leading-4 font-medium text-gray-500 dark:text-gray-400 uppercase tracking-wider">
          Salary
        </th>
        <th className="px-6 py-3 bg-gray-50 dark:bg-gray-800 text-left text-xs
leading-4 font-medium text-gray-500 dark:text-gray-400 uppercase tracking-wider">
          Password
        </th>
        <th className="px-6 py-3 bg-gray-50 dark:bg-gray-800 text-left text-xs
leading-4 font-medium text-gray-500 dark:text-gray-400 uppercase tracking-wider">
          Actions
        </th>
      </tr>
    </thead>
    <tbody className="bg-white dark:bg-gray-900 divide-y divide-gray-200
dark:divide-gray-700">
      {employeesData.map((employee) => (
        <tr key={employee.employeeid}>
          <td className="px-6 py-4 whitespace-no-wrap">{employee.firstname}</td>
          <td className="px-6 py-4 whitespace-no-wrap">{employee.lastname}</td>
          <td className="px-6 py-4 whitespace-no-wrap">{employee.position}</td>
          <td className="px-6 py-4 whitespace-no-wrap">{employee.salary}</td>
          <td className="px-6 py-4
whitespace-no-wrap">{'*'.repeat(employee.password?.length || 0)}</td>
          <td className="px-6 py-4 whitespace-no-wrap">

          </td>
        </tr>
      )
    )
  )}
    </tbody>
  </table>

```

Autosalon

Cars
Customers
Employees
Sales
Services

First Name	Last Name	Position	Salary	Password	Actions
Michael	Smith	Sales Manager	60000.00	****	<div>Delete</div> <div>Edit</div>
William	Davis	General Manager	75000.00	****	<div>Delete</div> <div>Edit</div>
Jennifer	Lee	Service Technician	50000.00	****	<div>Delete</div> <div>Edit</div>
Robert	Brown	Sales Representative	45000.00	****	<div>Delete</div> <div>Edit</div>
Emily	Johnson	Finance Manager	65000.00	****	<div>Delete</div> <div>Edit</div>

Add record

Представлення Sales:

```
<table className="min-w-full">
```



```

<thead>
<tr>
  <th className="px-6 py-3 bg-gray-50 dark:bg-gray-800 text-left text-xs
leading-4 font-medium text-gray-500 dark:text-gray-400 uppercase tracking-wider">
    CarID
  </th>
  <th className="px-6 py-3 bg-gray-50 dark:bg-gray-800 text-left text-xs
leading-4 font-medium text-gray-500 dark:text-gray-400 uppercase tracking-wider">
    CustomerID
  </th>
  <th className="px-6 py-3 bg-gray-50 dark:bg-gray-800 text-left text-xs
leading-4 font-medium text-gray-500 dark:text-gray-400 uppercase tracking-wider">
    Sale Date
  </th>
  <th className="px-6 py-3 bg-gray-50 dark:bg-gray-800 text-left text-xs
leading-4 font-medium text-gray-500 dark:text-gray-400 uppercase tracking-wider">
    Sale Price
  </th>
  <th className="px-6 py-3 bg-gray-50 dark:bg-gray-800 text-left text-xs
leading-4 font-medium text-gray-500 dark:text-gray-400 uppercase tracking-wider">
    Actions
  </th>
</tr>
</thead>
<tbody className="bg-white dark:bg-gray-900 divide-y divide-gray-200
dark:divide-gray-700">
  {data.map((sale) => (
    <tr key={sale.saleid}>
      <td className="px-6 py-4 whitespace-no-wrap">{sale.carid}</td>
      <td className="px-6 py-4 whitespace-no-wrap">{sale.customerid}</td>
      <td className="px-6 py-4
whitespace-no-wrap">{sale.saledate.toUTCString()}</td>
      <td className="px-6 py-4 whitespace-no-wrap">{sale.saleprice}</td>
      <td className="px-6 py-4 whitespace-no-wrap">

    </td>
    </tr>
  ) )}
</tbody>
</table>

```

## Autosalon

Cars Customers Employees Sales Services

CARID	CUSTOMERID	SALE DATE	SALE PRICE	ACTIONS	
1	1	Sat, 14 Jan 2023 22:00:00 GMT	25000.00	Delete	Edit
2	2	Sun, 15 Jan 2023 22:00:00 GMT	22000.00	Delete	Edit
3	3	Mon, 16 Jan 2023 22:00:00 GMT	35000.00	Delete	Edit
4	4	Tue, 17 Jan 2023 22:00:00 GMT	24000.00	Delete	Edit
5	5	Wed, 18 Jan 2023 22:00:00 GMT	23000.00	Delete	Edit

Add record

## Представлення Services:

```
<table className="min-w-full">
  <thead>
    <tr>
      <th className="px-6 py-3 bg-gray-50 dark:bg-gray-800 text-left text-xs
leading-4 font-medium text-gray-500 dark:text-gray-400 uppercase tracking-wider">
        Service Name
      </th>
      <th className="px-6 py-3 bg-gray-50 dark:bg-gray-800 text-left text-xs
leading-4 font-medium text-gray-500 dark:text-gray-400 uppercase tracking-wider">
        Description
      </th>
      <th className="px-6 py-3 bg-gray-50 dark:bg-gray-800 text-left text-xs
leading-4 font-medium text-gray-500 dark:text-gray-400 uppercase tracking-wider">
        Price
      </th>
      <th className="px-6 py-3 bg-gray-50 dark:bg-gray-800 text-left text-xs
leading-4 font-medium text-gray-500 dark:text-gray-400 uppercase tracking-wider">
        Actions
      </th>
    </tr>
  </thead>
  <tbody className="bg-white dark:bg-gray-900 divide-y divide-gray-200
dark:divide-gray-700">
    {data.map((service) => (
      <tr key={service.id}>
        <td className="px-6 py-4 whitespace-no-wrap">{service.service_name}</td>
        <td className="px-6 py-4 whitespace-no-wrap">{service.description}</td>
        <td className="px-6 py-4 whitespace-no-wrap">{service.price}</td>
        <td className="px-6 py-4 whitespace-no-wrap">
          <button type="button" className="text-gray-500 dark:text-gray-400 hover:text-gray-700
dark:hover:text-gray-200">Edit
          <button type="button" className="text-red-600 dark:text-red-500 hover:text-red-700
dark:hover:text-red-400">Delete
        </td>
      </tr>
    ))}
  </tbody>
</table>
```

# Autosalon

Cars Customers Employees Sales Services

SERVICE NAME	DESCRIPTION	PRICE	ACTIONS	
Regular Maintenance Service	Scheduled maintenance to keep the vehicle in good condition.	100.00	Delete	Edit
Brake Pad Replacement	Replacement of brake pads and brake system work.	150.00	Delete	Edit
Engine Diagnostics	Engine diagnostics to detect issues and facilitate repairs.	75.00	Delete	Edit
Oil and Filter Change	Routine oil and filter change to maintain engine performance.	50.00	Delete	Edit
Climate System Repair	Repair and servicing of the vehicles climate control system.	120.00	Delete	Edit

Add record