

Fetching Data from Sanity:

- **File Creation:** You created a `queries.ts` file to define your GROQ queries to fetch data from Sanity.
- **GROQ Queries:** You used the GROQ query language to fetch product data.

```
export const allProducts = groq`*_type == "product"`;
```

```
export const four = groq`*_type == "product"[0..3]`;
```

Defining TypeScript Interfaces:

In a `types/product.ts` file, you created an interface for the product data returned by Sanity. The interface ensures type safety.

```
export interface Product {  
  _id: string;  
  productName: string;  
  
  _type: "product";  
  
  image: {  
    asset: {  
      _ref: string;  
      _type: "image";  
    };  
  };  
}
```

Fetching Data in `useEffect`:

- You used `useState` to store the fetched product data in the state and `useEffect` to fetch the data on component mount.

```
useEffect(() => {  
  
  async function fetch Products() {  
  
    const fetchedProducts: Product[] = await client.fetch(allProducts);  
    setProducts(fetchedProducts);  
  }  
  fetchProducts();  
}
```

$\}, []);$

The `client.fetch(allProducts)` is used to fetch the data from Sanity using the defined `allProducts` GROQ query.

Displaying Data with Tailwind CSS:

You used the `map()` method to loop through the `products` array and display each product's details.

For styling, you used Tailwind CSS, including grid layout and image rendering.

```
return (
```

```
<div className="max-w-6xl mx-auto px-4 py-8">

  <h2 className="text-2xl font-bold mb-6 text-center">Our Latest Shoes</h2>
  <div className="grid grid-cols-2 md:grid-cols-3 lg:grid-cols-4 gap-6">
    {products.map((product) => (
      <div
        key={product._id}
        className="border rounded-lg shadow-md p-4 hover:shadow-lg transition duration-200"
      >
        {product.image && (
          <Image
            src={urlFor(product.image).url()}
            alt={product.productName}
            width={200}
            height={200}
            className="w-full h-48 object-cover rounded-md"
          />
        )}
        <h2 className="text-lg font-semibold mt-4">{product.productName}</h2>
        <p className="text-gray-500 mt-2">
          {product.price ? `$$${product.price}` : "Price not available"}
        </p>
      </div>
    ))}
  </div>
</div>
);
```

This renders the product image, name, and price in a grid layout.

Error Fix in `next.config.ts`:

You encountered an error related to the image domain not being defined in `next.config.ts`.

You created `next.config.ts` to define the allowed image domains

```
module.exports = {  
  images: {  
    domains: ['your-sanity-image-domain.com'],  
  },  
};
```

The error was resolved after you correctly defined the image domain and restarted the server (`npm run dev`), which allowed the changes to take effect.

Final Notes:

- **Server Restart:** After fixing the issue, you restarted the server to update the changes.
- **UI Display:** Finally, after fixing the error, the products started showing correctly in your UI

With Urdu :

Frontend Display sanity Data

Sub se phle main sanity k folder main gaya waha mene queries.ts ki file banai .

Us k under mene AK sanity ka Jo apna bnaaya gaya data ko fetch Karne ka system he jis ka name he groq us ko use karte huwe function banaya .

```
export const all products=groq`*[_type=="product"]`
```

Mene AK keyword use kia export our us k sath variable use kia jis ka name he const our k bad mene AK variable ka name define kia jis ka name he allproducts us k bad mene sanity ka apna AK method use kia jis ka name he groq our `[_type==product]` is ka mean he mujhe product ka data Nikal k do .

```
export const four=groq`[_type=="product"][0..3]`;
```

Nechy mene again

AK export keyword use kia us k sath const four our

us k bad mene [0..3] is ka mean k mujhe allproducts ki jaga mujhe 4 product show hu jesa k hum sub jante he array ka index number 0 se start huta he .

Packjson ko select kar k mene AK folder banaya Jis ka name mene types rakha our us k under AK file banai jis ka name mene product.ts rakha our us k under mene AK interface banya our type define ki

```
export interface Product {  
  
  _id:string;  
  
  name, ya productname:string  
  
  _type:"product"  
  
  image:{  
  
    asset:{  
  
      _ref: string;  
  
      _type:"image";  
  
    }  
  
  };  
}
```

Us k bad mene page .tsx me AK

Ustate ka use kia our use kiya our us ko type assign ki us k sath mene useEffect ka Ak function banaya Jis me mene async ka keyword use kia

```
useEffect(() => {  
  
  async function fetchProducts() {  
  
    const fetchedProducts: Product[] = await client.fetch(allProducts);
```

```

        setProducts(fetchedProducts);

    }

    fetchProducts();

}, []);

```

Or us k bad mene AK client.fecth kar k sanity se data ko fetch kiya .

Us k bad mene ui pe data ko display Karne k map method ka use kia our tailwind css ka use karete huwe mene grid ka ka bhi use kia

```

return (

    <div className="max-w-6xl mx-auto px-4 py-8">

        <h2 className="text-2xl font-bold mb-6 text-center">Our Latest Shoes</h2>

        <div className="grid grid-cols-2 md:grid-cols-3 lg:grid-cols-4 gap-6">

            {products.map((product) => (

                <div

                    key={product._id}

                    className="border rounded-lg shadow-md p-4 hover:shadow-lg transition duration-
200"

                    >

                        {product.image && (

                            <Image

                                src={urlFor(product.image).url()}

                                alt={product.name}

```

```
        width={200}

        height={200}

        className="w-full h-48 object-cover rounded-md"

      />

    )}

    <h2 className="text-lg font-semibold mt-4">{product.productName}</h2>

    <p className="text-gray-500 mt-2">

      {product.price ? `$$${product.price}` : "Price not available"}

    </p>

  </div>

  )}

</div>

</div>

);

};

}

export const
```

Yaha mujhe Ak error ata he k ap ne next config .ts main cdn define nai kia huwa mere pass next config .tsx ki file nai thi mene next config.ts ko banaya our us k under domain ko define kia kia our lekin mujhe phir bhi AK error a raha tha mene dekha mene koi mistake TU nai ki hoi he mene image ka s nai likha tha jab ye kia tu Mera error solve hu gaya .

Us k bad me server ko restart kia tak Jo changes hoi he upadte hu jaye

npm run dev kia our ui pe data show hu raha tha .