



# BUILDING AN ARTISANAL E-COMMERCE PLATFORM WITH IBM CLOUD FOUNDRY

*BY TEAM CLOUD CHASERS*

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# PHASE 5

Final submission

## **PROBLEM STATEMENT:**

- Building an artisanal e-commerce platform to connect skilled artisans with a global audience
- This application showcases their handmade products and provides features like secure shopping carts, payment gateways, and an intuitive checkout process
- Adding features which enhances Platform Design, Product Showcase, User Authentication, Shopping Cart and Checkout, Payment Integration, and User Experience

**01**

Creating a login page or home page

**02**

Product showcase and descriptions

**03**

Authentication and registration

**04**

Modeling Shopping Cart and Checkout process

**05**

Secure Payment

**06**

Advanced user Experience

**07**

IBM cloud foundry

**08**

loading data into storage

**09**

products inserted into db2

01

# CREATING A LOGIN PAGE OR HOME PAGE

# Ecommerce artisan & Handmade Decor

Welcome to our artisans' E-commerce website, where creativity meets craftsmanship!,  
Explore a world of exquisite handmade decor, lovingly crafted by skilled artisans,

[JOIN US](#)[Login Here](#)[Login](#)[Don't have an account](#)[Sign up here](#)[Log in with](#)

**IMPLEMENTED IN IBM CLOUD USING DB2  
AND  
CLOUD STORAGE**

Cloud Object Storage - IBM Cloud

https://cloud.ibm.com/objectstorage/crn%3Av1%3Abuemix%3Apublic%3Acloud-object-storage%3Aglobal%3Aa%2Fa0989f34bf984cb79ac7b...

IBM Cloud Search resources and products... Catalog Manage swetha G S's Account ? 📄 📈 📊 📡

Cloud Object Storage Instances / Cloud Object Storage-l8 / cloud-object-storage-cos-standard-v7d

Instances Objects Configuration Permissions

If you're seeing more usage than expected, versions count towards your usage or you may have exceeded your quota.

Prefix filter

<input type="checkbox"/> Object name	Archived ⓘ	Size
<input type="checkbox"/> file.html		2.5 KB

Drag and drop files (objects) here or click to upload

Upload success file.html 2023-10-18 4:03 PM Upload (1 objects) Delete Complete

90°F Haze

Search

4:03 PM 10/18/2023 ENG IN

Microsoft Edge | What's New | skillup login - Search | Steps to Create IBM Cloud Accou | Service Details - IBM Cloud

https://cloud.ibm.com/services/dashdb-for-transactions/crn%3Av1%3Abluemix%3Apublic%3Adashdb-for-transactions%3Aeu-gb%3Aa%2Fa0989f34bf...

IBM Cloud Search resources and products... Catalog Manage swetha G S's Account

Resource list / Db2-yd Active Add tags Actions...

Manage Getting started Service credentials Connections

Service credentials You can generate a new set of credentials for cases where you want to manually connect an app or external consumer to an IBM Cloud service. [Learn more](#)

New credential +

Key name	Date created
Service credentials-1	2023-10-18 12:14 PM

32°C Haze

12:14 18-10-2023 ENG IN 88 88

Microsoft Edge | What's New | skillup login - Search | Steps to Create IBM Cloud Account | Service Details - IBM Cloud

https://cloud.ibm.com/services/dashdb-for-transactions/crn%3Av1%3Abluemix%3Apublic%3Adashdb-for-transactions%3Aeu-gb%3Aa%2Fa0989f34bf...

IBM Cloud Search resources and products... Catalog Manage swetha G S's Account

```
        "zws19489",
        "-p",
        "nBtr13esbhB5TRim",
        "--ssl",
        "--sslCAFile",
        "1dd14d0c-1b52-4f63-a606-53ecba28771d",
        "--authenticationDatabase",
        "admin",
        "--host",
        "ea286ace-86c7-4d5b-8580-3fbfa46b1c66.bs2io90108kqb1od81cg.databases.appdomain.cloud:31505"
    ]
],
"bin": "db2",
"certificate": {
    "certificate_base64": "LS0tLS1CRUdJTiBDRVJUSUZJQ0FURS0tLS0tCk1JSURIVENDQWdXZ0F3SUJBZ01VT3dvMC9va09CUEN5RjFWeFJxVGhKRW9ubDBVd0RRWUpLb1pJaHZjTkFRRUwKQ1FBd0hqRWNNQm9HQTFVRUF3d1RTVUpOSUV0c2IzVmtJRVJoZEgGaV1YTmxjekF1RncweU1EQTRNRF3TWpVMwpNalphRncwek1EQTRNRE13TwpVM01qWmFNQjR4SERBYUJnT1ZCQU1NRTBsQ1RTQkRiRzkxWkNCRV1YUmhZbUZ6C1pYTXdnZ0VpTUEwR0NTcUdTSWIzRFFFQkFRVUFBNElCRHdBd2dnRUtBb01CQVFEB0ZFNGQ0SGd0eXZMUVIwR3gKQTB0amRXQnM4NVbJTDNyRStjN1R3K2diRUDQSUxJU0VZV3o4Y1g1TG1XQk0rY1Fn0G9VeSsrQXJ30EoxaXdRZQpySm1IU2I1c1F4WTM0c3BQeGRFVEZkWEhScnJhMGU2VmM4MW42T11JL0ZHSn11Q3h1TG5GMUTFQW9hbHYwaDM2CnhDT0FvcXRwT1F1TzNpMTRGeU0yRDRiajkxcki4RGk4Vy9XMVpVdVhMNGwzzXVLZUVCeTRuZmhJV3kySVc3aUMKbGpMZ3R1N3hZTDVhbVpKOudsYwtrSnJ1cnpNREFQLzVUYnR1UUIdE1odTBRSVRFZH1ESVFYUEZGRDBHYz1oZAo3M29JdnpVZUJ3VC9uRHN30TJNNC82SkdtZWpKn01pdFBTN3Y2a2d1UVhIND1BaUVJNXpQdUVpVzNOYi9GR0pYcmY2a2JBZ01CQUFHalV6Q1JNqjBHQTFRVZERnUVdCQ1R2Rz2RU5MRjFVbWZnQ003Mmx0cmMzSDI2bURBZkJnT1YKSFNNRUdEQVdnQ1R2Rzz2RU5MRjFVbWZnQ003Mmx0cmMzSDI2bURBUEJnT1ZIuk1CQWY4RUJUQURBUUgvTUEwRwpDU3FHU01iM0RRRUJDd1VBQTRJQkFRQTgvdFVnUTZ1aTZYWHZndDJ0dUdibkpva1Y5UWNkaTNZbFVFwkNDUytjC1VQZ3NnMnVBM1dxch1WTm1mRkhjcHZ1Vmp0VHRYTmk2NUM2W1ZsRnYxc3p1cU9zdFB5bkJ4b1N4cUs0dkc0dTkKVjBWRUgxcE1tZnZBSmxkV3c4UEJTZGjtTk1HdGM4Sz1wT0o50VdBQ1ZFRXVXVGdDeHJKTFBZnpYUX1idUV0dwp0cW1pV2swTmVXNGk5ZEY4S2dTWWVaQWFodXVBS1R1dXB2R2RPV1U0eEV4bm03aEVRbmZPV2ZITThDd08xNWFZC1RGQ2s0Q0pDUmR4M1g5U284V3o1Z3MzcncyRkFDQ1JyZ0NYeFFDZnZrTZUdVNHNkxFRHJHbmpWaXVSQkpZdW4KT1RxWXRoaVBHaHpuTHJ1L0Fzam1LMzBxQmFLTmFyNUdQajhqlpNb2Riz04KLS0tLS1FTkQgQ0VSVE1GSUNBVEUtLS0tLQo=",
        "name": "1dd14d0c-1b52-4f63-a606-53ecba28771d"
    },
    "composed": [
        "db2 -u zws19489 -p nBtr13esbhB5TRim --ssl --sslCAFile 1dd14d0c-1b52-4f63-a606-53ecba28771d --authenticationDatabase admin --host ea286ace-86c7-4d5b-8580-3fbfa46b1c66.bs2io90108kqb1od81cg.databases.appdomain.cloud:31505"
    ],
    "environment": {},
    "type": "cli"
},
"db2": {}

```

NZ - AFG In 15 hours

12:15 ENG IN 18-10-2023





Microsoft Edge | Who X | skillup login - Search X | IBM Cloud | Module X | Video: Basics of Clou X | Steps to Create IBM X | Service Details - IBM X | IBM Db2 on Cloud X + -

https://bs2ipcul0apon0jufi80lite.db2.cloud.ibm.com/crn%3Av1%3Abluemix%3Apublic%3Adashdb-for-transactions%3Aeu-gb%3Aa%2Fa0989f34bf984...

IBM Db2 on Cloud

Load Data Load History Tables Views Indexes Aliases MQTs Sequences Application objects

Source Target Define Finalize

You are loading the file **Product.csv** into **ZWS19489.PRODUCT**

Code page (character encoding): 1208 (UTF-8) Separator: , Header in first row: Time & date format: Detect data types:

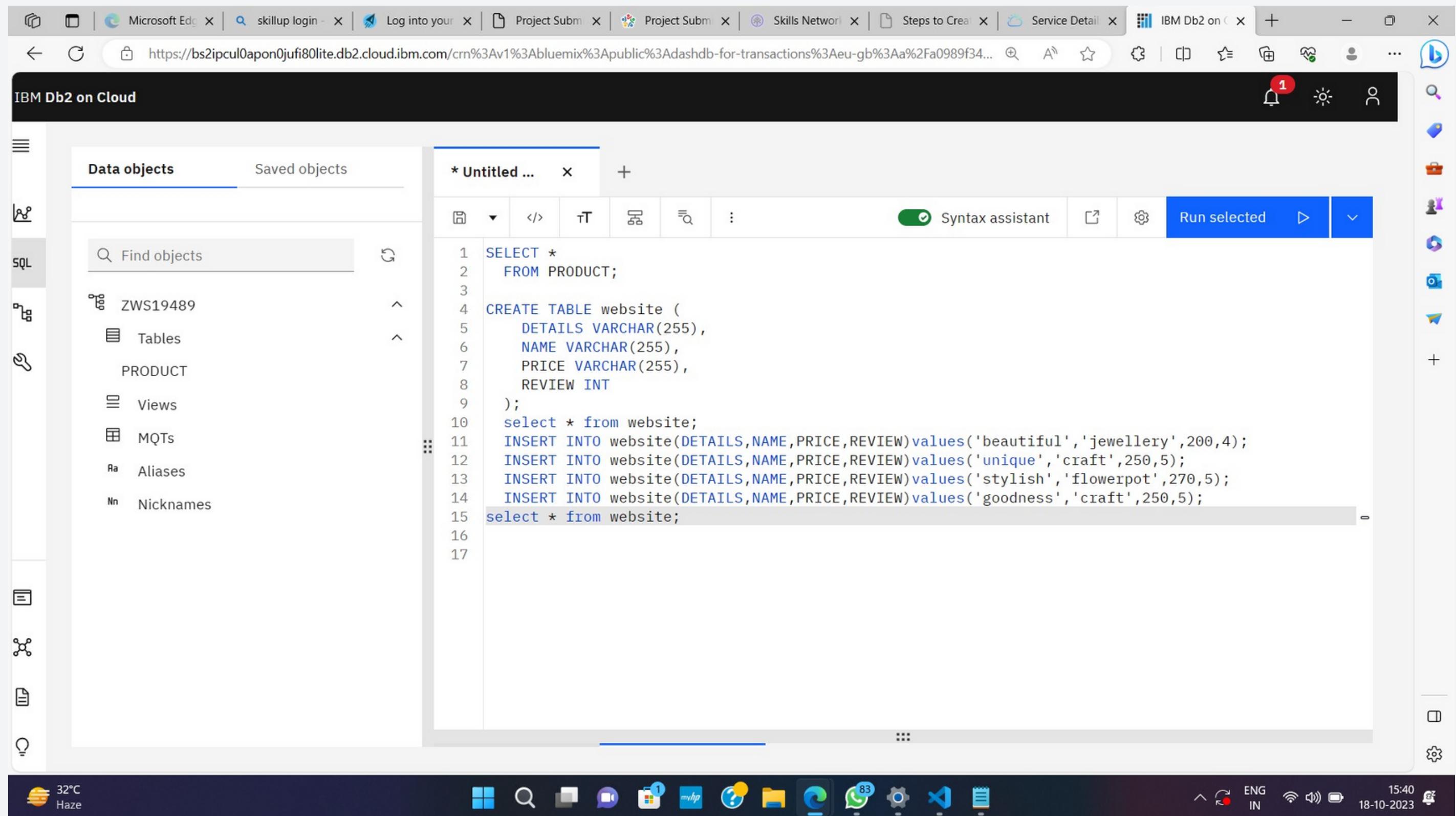
	PRODUCT_NAME VARCHAR(27)	PRODUCT_DETAILS VARCHAR(157)	PRODUCT_PRICE VARCHAR(7)	PRODUCT_REVIEW VARCHAR(22)
1	Handmade Wooden Coaster Set	Set of 4 handcrafted wooden coasters, made from sustainable materials. Perfect for protect	\$40.00	10 stare(10 reviews)
2	Handmade Ceramic Mug	Unique and stylish ceramic mug, handmade by a local artisan. Perfect for enjoying your favo	\$19.99	5 stars (10 reviews)
3	Handmade Soap	All-natural handmade soap, made with essential oils and botanicals. Gentle on the skin and	\$14.99	4.5 stars (20 reviews)
4	Handmade Jewelry	Beautiful and unique handmade jewelry, made from a variety of materials, including preciou	\$9.99	5 stars (50 reviews)
5	Handmade Scarf	Soft and cozy handmade scarf, made from wool or other natural fibers. Perfect for keeping y	\$29.99	5 stars (100 reviews)
6	Handmade Hat	Stylish and functional handmade hat, made from a variety of materials, including wool, strav	\$39.99	4.5 stars (30 reviews)
7	Handmade Quilt	Warm and inviting handmade quilt, made from a variety of fabrics. Perfect for adding a touch	\$29.99	5 stars (20 reviews)
8	Handmade Table runner	Beautiful and stylish handmade table runner, made from a variety of fabrics. Perfect for dres	\$199.99	5 stars (10 reviews)
9	Handmade pillow set	Set of 2 handcrafted pillowcases, made from a variety of fabrics. Perfect for adding a touch	\$39.99	5 stars (15 reviews)
10	Handmade Candle	All-natural handmade candle, made with soy wax and essential oils. Perfect for creating a re	\$29.99	5 stars (25 reviews)

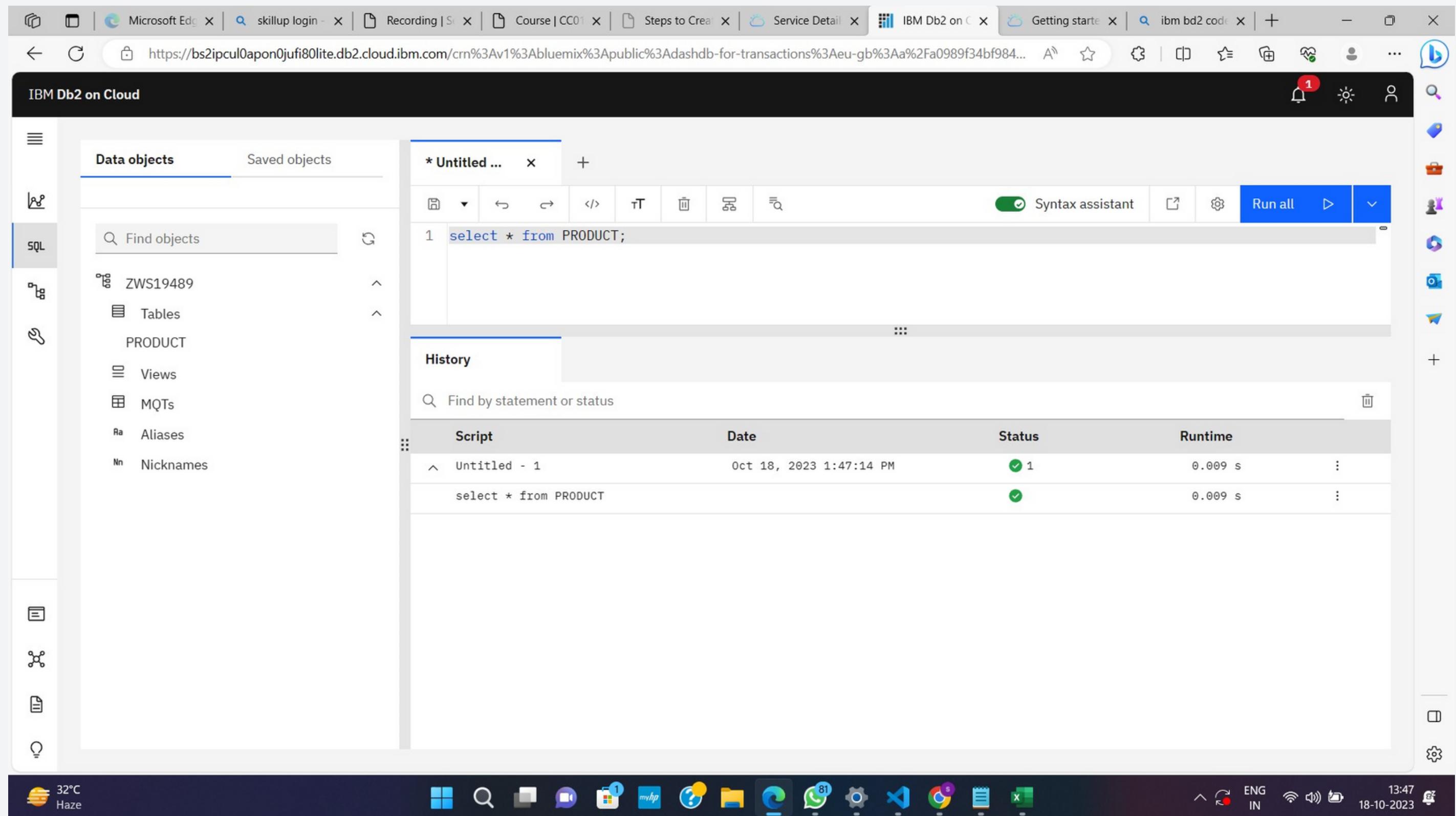
Back Next

SENSEX -0.72% 13:15 18-10-2023 ENG IN









The screenshot shows a code editor interface with the following details:

- File Menu:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Toolbar:** RUN AN..., Launch Ch..., ...
- Search Bar:** product page
- File List:** file.html, launch.json, style.css, script.js, 1.jpg
- Sidebar:** VARIABLES, WATCH, CALL STACK, BREAKPOINTS, BROWSER BREAKPOINTS.
- Code Editor:** The code for 'file.html' is displayed, structured as follows:

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>Ecommerce artisan homemade decor</title>
    <link rel="stylesheet" href="style.css">
  </head>
  <body>
    <div class="main">
      <div class="navbar">
        <div class="icon">
          <h2 class="logo">Artisan</h2>
        </div>

        <div class="menu">
          <ul>
            <li><a href="#">HOME</a></li>
            <li><a href="#">PRODUCT</a></li>
            <li><a href="#">SHOPPING CART</a></li>
            <li><a href="#">WHILIST</a></li>
            <li><a href="#">CONTACT</a></li>
          </ul>
        </div>

        <div class="search">
          <input class="srch" type="search" name="" placeholder="Type To text">
          <a href="#"> <button class="btn">Search</button></a>
        </div>
      </div>
      <div class="content">
        <h1>Ecommerce artisan & <br><span>Handmade</span> <br>Decor</h1>
        <p class="par">Welcome to our artisans' E-commerce website, where creativity meets craftsmanship!<br> Explore a world of exquisite
        <br>
        </p>
        <button class="cn"><a href="#">JOIN US</a></button>
      </div>
    </div>
  </body>
</html>
```
- Bottom Status Bar:** master, 30°C, Mostly clear, Launch Chrome (product page), Ln 64, Col 8, Spaces: 4, UTF-8, CRLF, HTML, ENG IN, 11-10-2023.

The screenshot shows a dark-themed code editor interface with the following details:

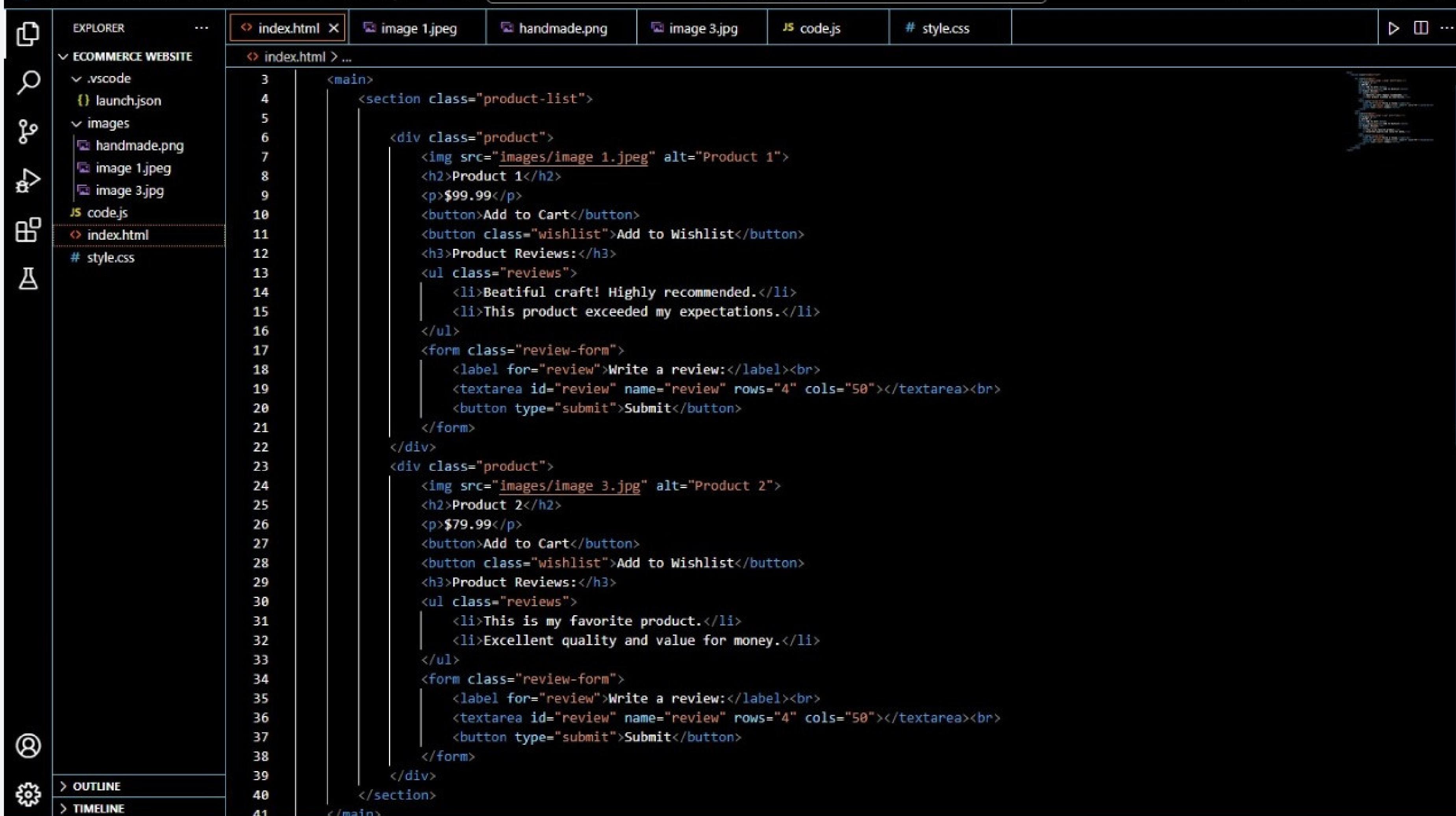
- File Bar:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Search Bar:** product page
- Editor Tabs:** file.html, launch.json, style.css (active), script.js, 1.jpg
- Sidebar Sections:**
  - VARIABLES
  - WATCH
  - CALL STACK
  - BREAKPOINTS
  - BROWSER BREAKPOINTS
- Code Content:** A CSS file named style.css with the following code:

```
/* style.css */.btn{*margin: 0; padding: 0;}.main{width: 100%; background: linear-gradient(to top, #ff7200 50%, #fff 50%), url(1.jpg); background-position: center; background-size: cover; height: 100vh;}.navbar{width: 1200px; height: 75px; margin: auto;}.icon{width: 200px; float: left; height: 70px;}.logo{color: #ff7200; font-size: 35px; font-family: Arial; padding-left: 20px; float: left; padding-top: 10px; margin-top: 5px;}.menu{width: 400px;}
```
- Status Bar:** master, Launch Chrome (product page), 30°C Mostly clear, 19:10, 11-10-2023, ENG IN, battery level.

The screenshot shows a browser developer tools interface with the following details:

- File Bar:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Search Bar:** product page
- Tab Bar:** RUN AN..., Launch Ch..., ... (highlighted), file.html, launch.json, style.css, script.js (highlighted), 1.jpg
- Sidebar:**
  - VARIABLES
  - WATCH (empty)
  - CALL STACK (empty)
  - BREAKPOINTS (empty)
  - BROWSER BREAKPOINTS (empty)
- Main Area:** Script.js content (shown below). The code handles script loading and deprecation warnings.

```
script.js > ⚡ <function>
1  (function(doc){
2    var scriptElm = doc.scripts[doc.scripts.length - 1];
3    var warn = ['[ionicons] Deprecated script, please remove: ' + scriptElm.outerHTML];
4
5    warn.push('To improve performance it is recommended to set the differential scripts in the head as follows:')
6
7    var parts = scriptElm.src.split('/');
8    parts.pop();
9    parts.push('ionicons');
10   var url = parts.join('/');
11
12   var scriptElm = doc.createElement('script');
13   scriptElm.setAttribute('type', 'module');
14   scriptElm.src = url + '/ionicons.esm.js';
15   warn.push(scriptElm.outerHTML);
16   scriptElm.setAttribute('data-stencil-namespace', 'ionicons');
17   doc.head.appendChild(scriptElm);
18
19
20  scriptElm = doc.createElement('script');
21  scriptElm.setAttribute('nomodule', '');
22  scriptElm.src = url + '/ionicons.js';
23  warn.push(scriptElm.outerHTML);
24  scriptElm.setAttribute('data-stencil-namespace', 'ionicons');
25  doc.head.appendChild(scriptElm)
26
27  console.warn(warn.join('\n'));
28
29 })(document);
```
- Bottom Bar:** master, Launch Chrome (product page), Ln 20, Col 45, Spaces: 4, UTF-8, CRLF, JavaScript, 30°C, Partly cloudy, Windows taskbar icons, ENG IN, 19:11, 11-10-2023



The screenshot shows the Visual Studio Code (VS Code) interface with the following details:

- File Bar:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Search Bar:** ecommerce website
- Left Sidebar (Explorer):** Shows the project structure under ECOMMERCE WEBSITE:
  - .vscode (launch.json)
  - images (handmade.png, image 1.jpeg, image 3.jpg)
  - JS code.js
  - index.html
  - # style.css
- Central Area (Code Editor):** Displays the contents of JS code.js. The code handles event listeners for wishlist buttons and review forms, with TODO comments for implementation.

```
1 // scripts.js
2
3 // Add event listeners to wishlist buttons
4 const wishlistButtons = document.querySelectorAll('.wishlist');
5 wishlistButtons.forEach(button => {
6   button.addEventListener('click', (event) => {
7     // Add item to wishlist
8     const product = event.target.parentElement;
9     const productName = product.querySelector('h2').innerText;
10    -----
11    // TODO: Implement wishlist functionality
12  });
13);
14
15 // Add event listeners to review forms
16 const reviewForms = document.querySelectorAll('.review-form');
17 reviewForms.forEach(form => {
18   form.addEventListener('submit', (event) => {
19     event.preventDefault();
20     const product = event.target.parentElement;
21     const productName = product.querySelector('h2').innerText;
22     const review = event.target.elements.review.value;
23     -----
24     // TODO: Add the review to the product's reviews list
25
26     event.target.reset();
27   });
28});
```
- Bottom Status Bar:** Shows file status (0 changes), terminal status (Launch Chrome against localhost (ecommerce website)), and other settings like spaces: 4, UTF-8, CRLF, and Go Live.

A screenshot of a dark-themed code editor interface, likely Visual Studio Code, displaying CSS code for an ecommerce website. The top navigation bar includes File, Edit, Selection, View, Go, Run, Terminal, Help, and a search bar labeled "ecommerce website". The left sidebar features icons for Explorer, Search, Find, Open, and Outline/Timeline. The Explorer view shows a project structure under "ECOMMERCE WEBSITE" with files like ".vscode/launch.json", "images/handmade.png", "image 1.jpeg", "image 3.jpg", "code.js", "index.html", and "# style.css". The main editor area contains the following CSS code:

```
1  main {  
2      padding: 20px;  
3      display: flex;  
4      flex-wrap: wrap;  
5  }  
6  
7  .product-list {  
8      width: 100%;  
9      display: flex;  
10     flex-wrap: wrap;  
11     justify-content: space-between;  
12  }  
13  
14  .product {  
15      width: calc(45% - 20px);  
16      margin-bottom: 20px;  
17      padding: 10px;  
18      background-color: #f8f8f8;  
19  }  
20  
21  .product img {  
22      max-width: 100%;  
23      height: auto;  
24  }  
25  
26  .product h2 {  
27      font-size: 18px;  
28      margin-top: 10px;  
29      margin-bottom: 5px;  
30  }  
31  
32  .product p {  
33      font-weight: bold;  
34      margin-bottom: 10px;  
35  }  
36  
37  .product button {  
38      margin-bottom: 10px;  
39  }
```

The status bar at the bottom shows "Ln 52, Col 2" and "Spaces: 4" along with other file-related icons.