

## **CSP-584 Project**

### **Online Software Application**

#### **Health Hub**

#### **Team No.9**

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## Screenshots

### Register Page

- User can create an account

The screenshot shows a web browser window for the 'Health Hub' application. The title bar says 'Health Hub'. The main content area is titled 'Create an HeathHub account'. It contains four input fields: 'First Name' (Vicky), 'Last Name' (Wu), 'Email' (vicky123@gmail.com), and 'Confirm Password' (two identical entries). Below these fields is a 'Create account' button. At the bottom of the page, there is a link 'Already have an account? Sign in now' and a copyright notice 'Copyright © Health Hub 2020'.

- User will get an alert message if confirm password is not matched while registering

This screenshot shows the same registration page as above, but with different input values. The 'Email' field contains 'vicky123@gmail.com', the 'Password' field contains '.....', and the 'Confirm Password' field contains '.....'. A red error message 'two passwords don't match' is displayed below the 'Create account' button. The rest of the page layout is identical to the successful registration screenshot.

### Login Page

- User sign in to an account

The screenshot shows a web browser window for the 'Health Hub' application. The title bar says 'Health Hub'. The main content area is titled 'Sign in to HealthHub'. It contains two input fields: 'Email' (vicky123@gmail.com) and 'Password' (.....). Below these fields is a 'Sign in' button. Above the 'Sign in' button, a success message 'Successfully registered, please login' is displayed. At the bottom of the page, there is a copyright notice 'Copyright © Health Hub 2020'.

- User will get an alert message if username and password are not matched while login

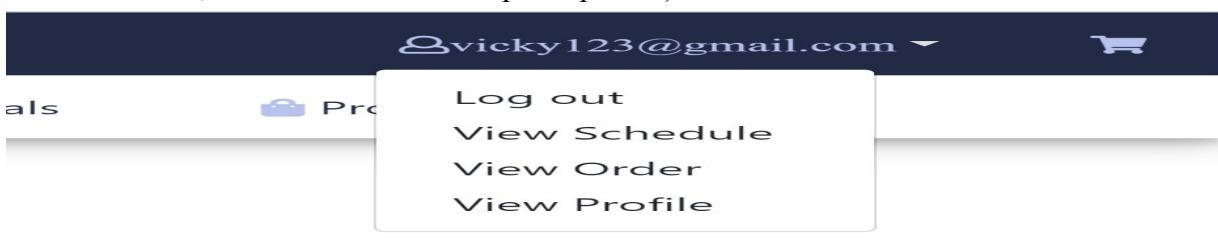
**Sign in to HealthHub**

Please check your username,  
password and user type!

Email Address
Password
<b>Sign in</b>

### User Account Dropdown List

- Account dropdown list contains all the actions user can do (log out, view appointment schedule, view order and view/update profile)



- User will get “You don’t have any appointments” message if user hasn’t made any appointment

Health Hub vicky123@gmail.com ▾

[Home](#) [Schedule an Appointment](#) [Doctors](#) [Medical Services](#) [Product ▾](#)

**My Appointment**

you don't have any appointments

Date	Name	Email	address	Phone	Doctor Name	Doctor Address	Doctor Phone
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- View order and cart will be empty if there aren't products being bought and added.

Health Hub vicky123@gmail.com ▾

[Home](#) [Schedule an Appointment](#) [Doctors](#) [Medical Services](#) [Product ▾](#)

**My Orders**

Order #	Ordered placed	Total	Status
---------	----------------	-------	--------

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**Shopping Cart**

Quantity	Price	Total
<b>Subtotal</b>		<b>0.00</b>

[Continue Shopping](#) [Checkout](#)

- User view profile to see personal information

Health Hub Homepage

localhost:7080 says  
Your profile is incomplete, please complete your profile

OK

Profile Information

Edit Profile

Vivky Wu

Gender

Date of Birth

Age

Occupation

Address

City

State

- User update the profile information

Health Hub Homepage

localhost:7080/CSP584HealthHub/UserProfile#

Search

vicky123@gmail.com

Home Schedule an Appointment Doctors Medical Services Product

24

student

875 Irving Road

Chicago

IL

60610

vicky123@gmail.com

Update Profile

- Home page displays real-time news and twitter matches

Health Hub Homepage

localhost:7080/CSP584HealthHub/index.jsp

Search

vicky123@gmail.com

Home Schedule an Appointment Doctors Medical Services Health Clubs Hospitals Product

**Top Health News**

These Houston-area hospitals are set to receive the coronavirus vaccine first - KPRC Click2Houston

**Deal Matches**

Lightning Deal! \$20.99 - Vikston Airstream 1875W Professional Ionic Ceramic Hair Dryer (Coffee Espresso) <https://t.co/3orB8NvvfA>

- Twitter matches

The screenshot shows the Health Hub homepage with a "Deal Matches" section. It features two products: a "Airstream 1875W Professional Ionic Ceramic Hair Dryer" and a "Golden Magnetic Mud Mask Rich Collagen & Oxygen Booster 50ML". Each product has an image, a price (\$19.99 and \$50.99 respectively), and buttons for "Add to Cart" and "Write Review".

- Autocomplete search feature

The screenshot shows the Health Hub homepage with an open autocomplete dropdown menu over the search bar. The suggestions listed are: "Vitamin D3 50 mcg Liquid Softgels 2000 IU 90CT", "Vitamin C 10CT", "Immune+ Vitamin C Tablet", "Disposable Gloves Latex-Free Clear Vinyl Gloves", and "Snacks Madagascar Vanilla Almond Bar".

- Redirect user to product page after clicking the first product of autocomplete list

The screenshot shows the Health Hub product page for "Vitamin D3 50 mcg Liquid Softgels 2000 IU 90CT". The product image is a yellow bottle of Nature Made Vitamin D3. The page includes the product name, price (\$28.49), and buttons for "Add to Cart", "Write Review", and "View Review". A sidebar on the left lists categories: Vitamins, Medicine, Personal Care, Home Care, and Nutrition.

- Product page displays products by category “Vitamins” for example

The screenshot shows the Health Hub homepage with a sidebar menu on the left containing categories: Vitamins, Medicine, Personal Care, Home Care, and Nutrition. The main content area displays a grid of Vitamins products. Each product card includes an image, name, price, and three buttons: Add to Cart, Write Review, and View Review.

Product	Price	Action Buttons
Zinc 30 mg Tablets 100 CT	\$4.19	Add to Cart, Write Review, View Review
Vitamin D3 50 mcg Liquid Softgels 2000 IU 90CT	\$28.49	Add to Cart, Write Review, View Review
Calm Relax with 300mg Magnesium and 125mg Ashwagandha	\$19.99	Add to Cart, Write Review, View Review
Nature Made Magnesium Citrate 250 mg Softgels 60CT	\$13.99	Add to Cart, Write Review, View Review
Folic Acid Tablets 800mcg 100CT	\$4.19	Add to Cart, Write Review, View Review
Calcium and Magnesium With Zinc Tablets	\$4.99	Add to Cart, Write Review, View Review
Vitamin C 10CT	\$6.49	Add to Cart, Write Review, View Review
Immune+ Vitamin C Tablet	\$8.29	Add to Cart, Write Review, View Review
Minis Adult 50+	\$18.29	Add to Cart, Write Review, View Review

- User can view their shopping cart for checkout

The screenshot shows the Health Hub shopping cart page. The cart contains two items: a Raised Toilet Seat and a Vitamin C 10CT. The total subtotal is \$80.47. At the bottom, there are buttons for Continue Shopping and Checkout.

Item	Quantity	Price	Total
Raised Toilet Seat by Drive Medical Status: In Stock	2	\$36.99	73.98
Vitamin C 10CT by Emergen-C Status: In Stock	1	\$6.49	6.49

**Subtotal** 80.47

[Continue Shopping](#) [Checkout](#)

- User will get recommended products below the cart if they placed an order before

The screenshot shows the Health Hub shopping cart page with recommended products displayed below the cart summary. The recommended products are: Custom Molded Earplugs Black, Airstream 1875W Professional Ionic Ceramic Hair Dryer, and Immune+ Vitamin C Tablet. Each product has an image, name, price, and three buttons: Add to Cart, Write Review, and View Review.

Recommended Product	Price	Action Buttons
Custom Molded Earplugs Black	\$19.69	Add to Cart, Write Review, View Review
Airstream 1875W Professional Ionic Ceramic Hair Dryer	\$19.99	Add to Cart, Write Review, View Review
Immune+ Vitamin C Tablet	\$8.29	Add to Cart, Write Review, View Review

- User fill out required information and is ready to checkout orders

The screenshot shows the 'Checkout' page of the Health Hub website. On the left, there are three sections: '1. Shipping address', '2. Payment method', and '3. Review items and shipping'. The 'Shipping address' section contains fields for Name (Judy), Middle Initial (Huang), Street (2045 W Jackson Blvd), City (Chicago), State (IL), and Zip (60612). The 'Payment method' section shows Credit card selected, with fields for Name on card (9834023912330987), Expiry date (02/23), and CVV (111). The 'Review items and shipping' section lists two items: 'Raised Toilet Seat by Drive Medical' and 'Vitamin C 10CT by Emergen-C'. Both items have an expected delivery date of Dec.20. The 'Order Summary' on the right details the total cost: Items (\$80.47), Shipping & handling (\$9.99), Discount Applied (\$16.09), Total before tax (\$64.38), Estimated tax (\$6.44), and Order Total (\$74.37). A 'Place your order' button is at the bottom.

- User will get order confirmation after checking out

The screenshot shows the 'Order Process' page with the method set to 'checkout'. At the top, there's a navigation bar with links for Home, Schedule an Appointment, Doctors, Medical Services, and Product. Below that is a header with a lock icon and the text 'Thanks for your order!'. A message says 'We're processing your order now, here are the details'. Underneath, it states 'Confirmation email will be sent to judy@gmail.com'. The 'Order details' table provides the following information:

Order number	1703555337
Order date	Sun Dec 06 14:39:00 CST 2020
Estimated delivery date	Dec.20
Subtotal before tax	64.38
Tax	6.44
Total	74.37

At the bottom, it says 'Copyright © Health Hub 2020'.

- User can view order details and cancel order

Order #	Ordered placed	Total	Status		
1703555337	Dec 6, 2020 12:00:00 AM	\$80.47	Approved	<a href="#">Cancel Order</a>	<a href="#">View Detail</a>
833698956	Nov 30, 2020 12:00:00 AM	\$237.16000000000003	Approved	<a href="#">Cancel Order</a>	<a href="#">View Detail</a>

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- User can write product reviews

Create a review

Custom Molded Earplugs Black

Overall Rating: 5

Add a headline: Very Good!

Add a written review:

If you are using these for shooting, a loud work environment, or want to completely tune out the outside world, these are perfect.

Submit

- User can view product reviews of particular product

View Reviews

Ilza@gmail.com  
Overall Rating: 5  
**easy to use**  
These earplugs are definitely as advertised. The instructions are very clear on how the molding works, making it simple. They are very comfortable. Great product.

ned@gmail.com  
Overall Rating: 5  
**Super Easy To Fit**  
Love the earplugs- super easy to fit. I have been looking for something like this for a while.

rida@gmail.com  
Overall Rating: 5  
**Finally**  
Finally ear plugs that are comfortable and work. The lanyard works perfectly. Always worried id loose when mowing grass but no problems and hearing protection is great

judy@gmail.com  
Overall Rating: 5  
**Very Good!**  
If you are using these for shooting, a loud work environment, or want to completely tune out the outside world, these are perfect.

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## Doctors Page

- User click GO button to find doctors with specialty “Allergist” for example

The screenshot shows the Health Hub Homepage with a search bar at the top. Below the search bar, there are navigation links: Home, Schedule an Appointment, Doctors, Medical Services, and Product. A user has selected the 'Doctors' link. On the left, a sidebar titled "Select a specialty to find a doctor near you:" lists specialties with checkboxes: Allergist (checked), Internist, Dermatologist, Dentist, Eye Doctor, and Gastroenterologist. It also includes input fields for State, City, and Zipcode, and a "Go" button. To the right, three search results are displayed in teal boxes:

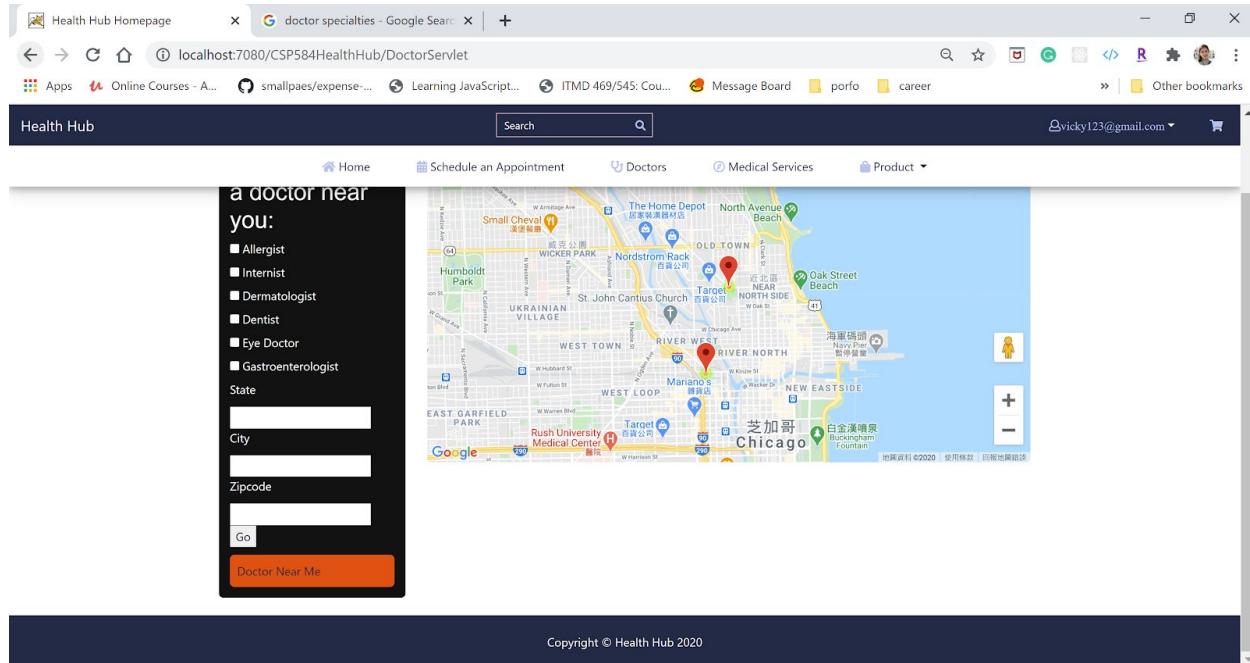
- Dr. Martin S Pine  
AllergistDoctor  
11234789  
35 E 35th Street, New York, New York, New York
- Dr. Martin S Pine  
AllergistDoctor  
11234789  
35 E 35th Street, New York, New York, New York
- Dr. Martin S Pine  
AllergistDoctor  
11234789  
35 E 35th Street, New York, New York, New York

- User apply the filter to find doctors in New York City for example

The screenshot shows the Health Hub Homepage with a search bar at the top. Below the search bar, there are navigation links: Home, Schedule an Appointment, Doctors, Medical Services, and Product. A user has selected the 'Doctors' link. On the left, a sidebar titled "Select a specialty to find a doctor near you:" lists specialties with checkboxes: Allergist, Internist, Dermatologist, Dentist, Eye Doctor, and Gastroenterologist. It also includes input fields for State, City, and Zipcode, and a "Go" button. To the right, four search results are displayed in teal boxes:

- Dr. Emad Azab  
DentistDoctor  
3123214242  
1224 S Wabash Ave, New York, New York, New York
- Dr. Martin S Pine  
AllergistDoctor  
11234789  
35 E 35th Street, New York, New York, New York
- Dr. David Kaplowitz  
InternistDoctor  
234567894  
710 Park Ave, New York, New York, New York
- Dr. Charles Paolino

- Display available doctors on map near user's location after clicking Doctor Near Me button



- User fill out required information to schedule appointment

Schedule an Appointment  
After you've sent this request, we'll send you a confirmation email.

**Patient Information**

Judy	Middle Initial	Huang
Female	03/12/1996	
2045 W Jackson Blvd	Chicago	IL
60612		
123456778	judy@gmail.com	

**Appointment Information**

12/09/2020	
14:00	
Head or ear trauma.	

**Make an Appointment**

- User can view and cancel the appointment schedule

The screenshot shows a web browser window for 'Health Hub Homepage' at localhost:7080/CSP584HealthHub/viewSchedule.jsp. The page title is 'My Appointment'. It displays a table with the following data:

Date	Name	Email	address	Phone	Doctor Name	Doctor Address	Doctor Phone
2020-12-09	JudyHuang	judy@gmail.com	2045 W Jackson BlvdChicagoIL60612	123456778	Raymond Kleinfelder	424 W Division St	321458971

A red box highlights the 'Cancel Appointment' link next to the phone number. Below the table, a dark banner contains the text 'Copyright © Health Hub 2020'.

## Medical Services Page

User apply filters “Home Health” to find medical services near the user’s location for example

The screenshot shows a web browser window for 'Health Hub' at localhost:7080/CSP584HealthHub/medical-service.jsp. The page title is 'Medical Services'. On the left, a sidebar titled 'Select a service to find a provider near you:' lists filters: 'Home Health' (checked), 'Hospice Care', and 'Home Medical Equipment'. It also includes fields for 'Zipcode' (input field), 'Distance' (dropdown set to '25 miles'), and a 'Go' button. To the right is a Google Map of Chicago's South Side and Central Station area, showing various landmarks and service locations marked with blue pins. A red dot indicates the user's current location. A dark banner at the bottom contains the text 'Copyright © Health Hub 2020'.

## Admin Login

- Link to admin homepage

The screenshot shows a dropdown menu from a navigation bar. The menu items are 'Sign in', 'Create account', and 'Admin', with 'Admin' being the active option.

- All actions that admin can do (view/add/update/delete products, view inventory report, do data analytics, view trending products)

● View products page

ID	Name	Image	Price	Manufacturer	Condition	Discount	Category	Inventory	Action
Airstream	Airstream 1875W Professional Ionic Ceramic Hair Dryer		19.99	Vikston	New	2.0	personalcare	100	
BodyScrub	Premium Organic Body Scrub Set		30.99	pureSCRUBS	New	5.0	personalcare	100	
Gloves	Disposable Gloves Latex-Free Clear Vinyl Gloves		12.99	Ridex	New	0.0	personalcare	100	
HeatingPad	Heating Pad for Neck and Shoulder Pain Relief		43.99	Sunbeam	New	5.0	personalcare	100	
homecare01	Steel Drop Arm Bedside Commode with Padded		150.99	Drive Medical	New	20.0	homecare	100	
homecare02	TransSport Aluminum Transport Wheelchair		219.99	Drive Medical	New	20.0	homecare	100	
homecare03	Raised Toilet Seat		36.99	Drive Medical	New	5.0	homecare	100	
homecare04	Plus-Sized Bariatric Blood Pressure Cuff		22.0	Drive Medical	New	2.0	homecare	100	
homecare05	Master Cardiology Stethoscope 27 in Length		289.49	Littmann	New	40.0	homecare	100	
homecare06	No Rinse Bathing Wipes		16.9	Nurture	New	2.0	homecare	100	
homecare07	Disposable Underpads		14.49	Medpride	New	0.0	homecare	100	
Magnetic	Golden Magnetic Mud Mask Rich Collagen		50.99	Predire	New	2.0	personalcare	100	
medicine01	Extra Strength Rapid Release Gels with Antitussive		7.49	Tylenol	New	1.0	medicine	100	
medicine02	Sinus Severe Daytime Caplets with Non-Drowsy Formula 24 CT		11.99	Tylenol	New	0.0	medicine	100	
medicine03	Cold Max Night Cool Burst Liquid 8 fl OZ		12.19	Tylenol	New	2.0	medicine	100	
medicine04	Easy Open Arthritis Cap Liquid Gel, Pain Reliever 80ct		12.99	Aleve	New	2.0	medicine	100	
medicine05	Back and Muscle Pain Tablet, Pain Reliever/Fever Reducer 200ct		19.99	Aleve	New	2.0	medicine	100	
medicine06	Allergy Medicine		19.99	ValuMeds	New	2.0	medicine	100	
medicine07	Kids Cold Medicine		19.99	Hyland's	New	6.0	medicine	100	
medicine08	Children's Honey Cough and Chest Congestion		19.99	Robitussin	New	10.0	medicine	100	
nutrition01	Nature's Ultimate Lean Muscle Protein Powder		19.99	Muscle Milk	New	2.0	nutrition	100	
nutrition02	Snacks Madagascar Vanilla Almond Bar		5.99	Kind	New	0.0	nutrition	100	
nutrition03	Protein and Greens Drink Mix 16.6 OZ		26.99	Vega	New	5.0	nutrition	100	
nutrition04	Snack Bars 12CT		22.99	Vega	New	5.0	nutrition	100	
nutrition05	Essentials Shake		40.0	Vega	New	5.0	nutrition	100	
personalcare01	Custom Molded Earplugs Black		19.69	Decibullz	New	2.0	personalcare	100	
personalcare02	Fungal Nail Renewal 0.33 OZ		24.99	Kerasal	New	2.0	personalcare	100	
personalcare03	3-Ply Cloth Face Masks 50CT		14.99	Hanes	New	1.0	personalcare	100	
personalcare04	Infrared Forehead Thermometer 2CT		140.0	ConairCare	New	30.0	personalcare	100	
personalcare05	Nighttime Lubricant Eye Ointment 0.12 OZ		12.99	Systane	New	2.0	personalcare	100	
Toothbrush	Electric Toothbrush Powerful Sonic Cleaning		24.99	Fairywill	New	2.0	personalcare	100	
vitamin01	Zinc 30 mg Tablets 100 CT		4.19	Nature Made	New	1.0	vitamin	100	
vitamin02	Vitamin D3 50 mcg Liquid Softgels 2000 IU 90CT		28.49	Nature Made	New	5.0	vitamin	100	
vitamin03	Calm Relax with 300mg Magnesium and 125mg Ashwagandha		19.99	Nature Made	New	5.0	vitamin	100	
vitamin04	Nature Made Magnesium Citrate 250 mg Softgels 60CT		13.99	Nature Made	New	1.0	vitamin	100	
vitamin05	Folic Acid Tablets 800mcg 100CT		4.19	CVS Health	New	0.0	vitamin	100	
vitamin06	Calcium and Magnesium With Zinc Tablets		4.99	CVS Health	New	0.0	vitamin	100	
vitamin07	Vitamin C 10CT		6.49	Emergen-C	New	0.0	vitamin	100	
vitamin08	Immune+ Vitamin C Tablet		8.29	Emergen-C	New	1.0	vitamin	100	
vitamin09	Minis Adult 50+		18.29	Centrum	New	0.0	vitamin	100	

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- Admin can add products

**Add Product**

Bath Brush
Bath Brush
8.99
<input type="file"/> bathBrushes.JPG

Gerylove
New
2.0
Personal Care
100
<b>Submit</b>

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ID	Name	Image	Price	Manufacturer	Condition	Discount	Category	Inventory	Action
Airstream	Airstream 1875W Professional Ionic Ceramic Hair Dryer		19.99	Vikston	New	2.0	personalcare	100	 
Bath Brush	Bath Brush		8.99	Gerylove	New	2.0	personalcare	100	 
BodyScrub	Premium Organic Body Scrub Set		30.99	pureSCRUBS	New	5.0	personalcare	100	 

- Admin can update products

**Update Product**

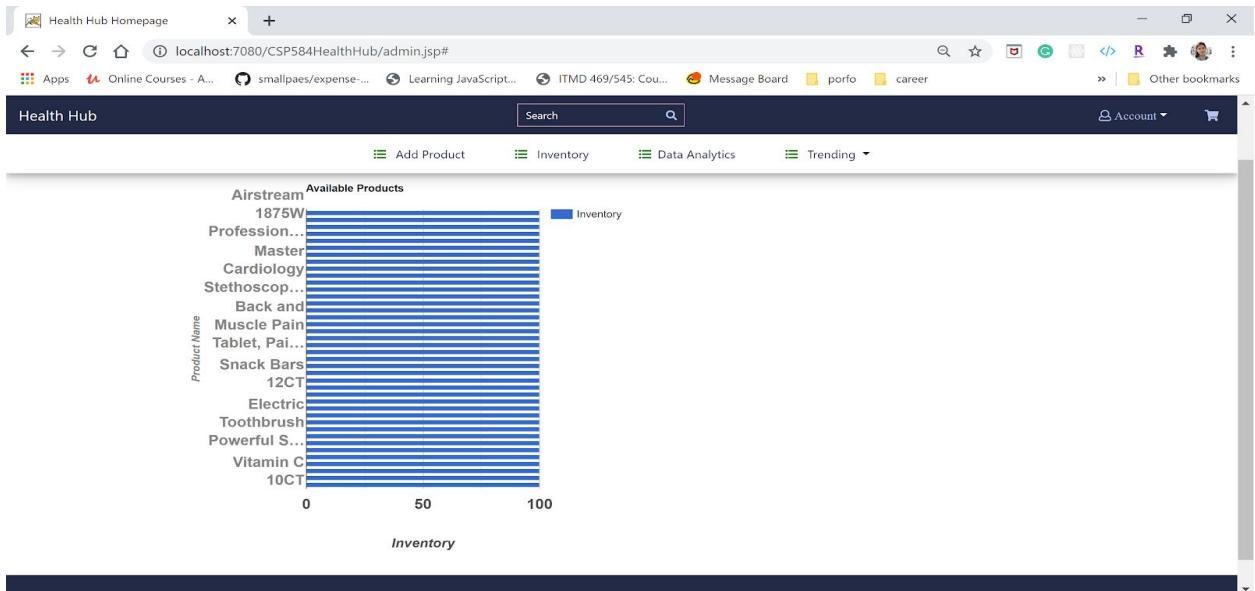
Airstream
Airstream 1875W Professional Ionic Ceramic H
45
<input type="file"/> Airstream.jpg

Vikston

		Add Product	Inventory	Data Analytics	Trending				
ID	Name	Image	Price	Manufacturer	Condition	Discount	Category	Inventory	Action
Airstream	Airstream 1875W Professional Ionic Ceramic Hair Dryer		45.0	Vikston	New	2.0	personalcare	100	 

## Analytics and Visual Reports

- Admin can view inventory report by clicking Inventory link



## Data analytics on Review page

- Admin can analyze data by filtering products with review rating 2 for example

Data Analytics on Review		Home Data Analytics				
Product Name	Price	Rating	Review	User	City	Zipcode
Steel Drop Arm Bedside Commode with Padded	150.99	2	Very small seat. Seat and lid can be bent very easily with your hands. You get what you pay for. Would recommend for children only.	kelly@gmail.com	Chicago	60616
Snack Bars 12CT	22.99	2	unable to eat	angel@gmail.com	Chicago	60623

**Data Analytics on Review**

● Price Greater Than  
● Price Less Than  
Price  
  
● Rating Greater Than  
● Rating Less Than  
Rating  
  
Product Name  
  
Select a product  
Group By  
Default  
City  
  
Zipcode  
  
Find Data

- Admin can analyze data by filtering products with price less than \$50 and zip codes 60605 for example

The screenshot shows a web browser window titled "Health Hub Homepage" with the URL "localhost:7080/CSP584HealthHub/DataAnalysis". The page has a dark header with "Health Hub" and a search bar. Below the header is a navigation menu with "Home", "Data Analytics", and "Trending". The main content area is titled "Data Analytics on Review". On the left, there is a sidebar with filters: "Price Greater Than", "Price Less Than", "Rating Greater Than", "Rating Less Than", "Product Name" dropdown, "Group By" dropdown set to "Default", "City" dropdown, and "Zipcode" input field set to "60605". The main table lists four products:

Product Name	Price	Rating	Review	User	City	Zipcode
Folic Acid Tablets 800mcg 100CT	4.19	4	I like the items and the target good service	liza@gmail.com	Chicago	60605
Calcium and Magnesium With Zinc Tablets	4.99	3	no side effects on me	liza@gmail.com	Chicago	60605
Immune+ Vitamin C Tablet	8.29	5	it is easy to eat and good!	liza@gmail.com	Chicago	60605
Custom Molded Earplugs Black	19.69	5	These earplugs are definitely as advertised. The instructions are very clear on how the molding works, making it simple. They are very comfortable. Great product.	liza@gmail.com	Chicago	60605

## Trending Page

- Admin can view the best selling products

The screenshot shows a web browser window titled "Health Hub Homepage" with the URL "localhost:7080/CSP584HealthHub/DataAnalysis?method=trending&action=bestseller". The page layout is similar to the previous one, with a dark header, "Health Hub" title, and "Trending" tab selected. The main table lists products sorted by "Best Seller Best Rating".

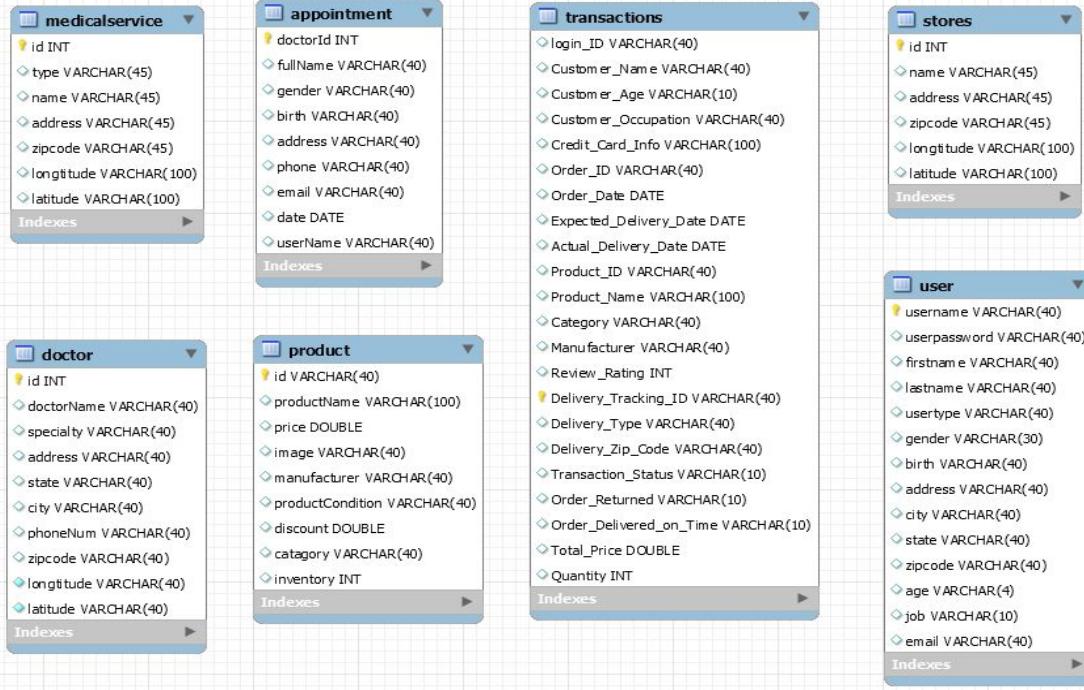
Num of Sold	Id	Name	Image	Price	Manufacturer	Co	Category	Inventory	Action
2	vitamin01	Zinc 30 mg Tablets 100 CT		4.19	Nature Made	New	vitamin	100	
2	homecare03	Raised Toilet Seat		36.99	Drive Medical	New	homecare	100	
2	nutrition01	Natures Ultimate Lean Muscle Protein Powder		19.99	Muscle Milk	New	nutrition	100	
2	personalcare01	Custom Molded Earplugs Black		19.69	Decibullz	New	personalcare	100	
2	BodyScrub	Premium Organic Body Scrub Set		30.99	pureSCRUBS	New	personalcare	100	
2	personalcare02	Fungal Nail Renewal 0.33 OZ		24.99	Kerasal	New	personalcare	100	
2	medicine02	Sinus Severe Daytime Caplets with Non-Drowsy Formula 24 CT		11.99	Tylenol	New	medicine	100	
1	medicine03	Cold Max Night Cool Burst Liquid 8 fl OZ		12.19	Tylenol	New	medicine	100	

- Admin view the best rating products

The screenshot shows a web browser window titled "Health Hub Homepage" with the URL "localhost:7080/CSP584HealthHub/DataAnalysis?method=trending&action=bestrating". The layout is identical to the previous screenshots. The main table lists products sorted by "Best Seller Best Rating".

Rating	Id	Name	Image	Price	Manufacturer	Co	Category	Inventory	Action
5.0	medicine01	Extra Strength Rapid Release Gels with Acetaminophen		7.49	Tylenol	New	medicine	100	
5.0	Airstream	Airstream 1875W Professional Ionic Ceramic Hair Dryer		45.0	Vikston	New	personalcare	100	
5.0	vitamin08	Immune+ Vitamin C Tablet		8.29	Emergen-C	New	vitamin	100	
5.0	personalcare01	Custom Molded Earplugs Black		19.69	Decibullz	New	personalcare	100	
5.0	personalcare01	Custom Molded Earplugs Black		19.69	Decibullz	New	personalcare	100	

# MySQL Database



## User table

username	userpassword	firstname	lastname	userstype	gender	birth	address	city	state	zipcode	age	job	email
angel@gmail.com	1414	Angel	Main	customer	female	11-24-1988	4227 W 21st St	Chicago	IL	60623	32	accountant	angel@gmail.com
jessi@gmail.com	0909	Jessi	Liu	customer	female	12-22-1998	12112 S Front Ave	Chicago	IL	60628	22	student	jessi@gmail.com
john@gmail.com	1111	John	Welch	customer	male	02-22-1996	1033 W 14th Pl	Chicago	IL	60616	23	lawyer	john@gmail.com
judy@gmail.com	1234	Judy	Huang	customer	female	03-12-1996	2045 W Jackson Blvd	Chicago	IL	60610	23	Student	judy@gmail.com
kaylum@gmail.com	8765	Kaylum	Vinson	customer	male	05-12-1990	181 E 24th St	Chicago	IL	60411	30	professor	kaylum@gmail.com
kelly@gmail.com	1223	Kelly	Ball	customer	female	01-01-1996	401 E 32nd St	Chicago	IL	60616	23	driver	kelly@gmail.com
liza@gmail.com	0000	Liza	Badom	customer	female	10-10-1995	899 S Plymouth Ct	Chicago	IL	60605	24	driver	liza@gmail.com
ned@gmail.com	8877	Ned	Lyon	customer	male	12-25-1990	8619 S Wolcott Ave	Chicago	IL	60620	30	dancer	ned@gmail.com
rida@gmail.com	9292	Rida	Eaton	customer	male	09-12-1980	1820 Victoria Ave	Chicago	IL	60604	40	scientist	rida@gmail.com
ryan@gmail.com	9988	Ryan	Perry	customer	male	09-21-1992	920 Jacob Ct	Chicago	IL	60185	28	teacher	ryan@gmail.com
vicky123@gmail.com	1234	Vicky	Wu	customer	female	01-01-1996	875 Irving Road	Chicago	IL	60610	24	student	vicky123@gmail.com
vinc@gmail.com	1231	Vinc	Luise	customer	male	05-06-1997	810 Parkside Ave	Chicago	IL	60185	24	police	vinc@gmail.com
zayn@gmail.com	11??	Zayn	Halev	customer	male	01-??-19??	4140 N Western Ave	Chicago	IL	60618	21	chef	zayn@gmail.com

## Transactions table

login_ID	Customer_Nam_e	Outf	Customer_Oc	Credit_Card_Info	Order_ID	Order_Date	Expected_Dr	Actual_Delv	Product_ID	Product_Name	Manufacturer	Rev	Delivery_Trade	Delivery_Type	Delivery_	Transaction	Order_	Total_Price	Quantity
john@gmail.com	JohnWelch	22	lawyer	on,John Welch,273801927832112/01/22,333	628578202	2020-11-30	2020-12-01	2020-12-02	vitamine01	Zinc 30mg Tablets 100 CT	Nature Made	4	103303366	Home Delivery	60616	Approved	No	4.19	1
rida@gmail.com	RidaEaton	40	scientist	on,Rida Eaton,281912092185744/01/21,114	40798052	2020-12-04	2020-12-05	2020-12-06	homecare02	Raised Toilet Seat	Drive Medical	1	103996648	Store Pickup	60614	Disputed	Yes	36.99	1
judy@gmail.com	JudyHuang	23	student	on,Judy Huang,283102091233997/02/23,111	83858956	2020-11-30	2020-12-01	2020-12-02	medone03	Cold Man Night Cool Burst Liquid 8 fl OZ	Tylenol	2	149338353	Store Pickup	60612	Approved	No	12.19	1
ned@gmail.com	NedLyon	30	dancer	on,Ned Lyon,210293980129353,1/23,999	534617881	2020-12-04	2020-12-05	2020-12-06	gloves02	Disposable Gloves Latex-Free Clear, 100	Idx	2	152338175	Home Delivery	60620	Approved	No	12.99	1
vinc@gmail.com	VincLuse	24	police	on,Vinc Luse,82512929129003,12/25,867	14738179	2020-12-04	2020-12-15	2020-12-16	vitamin08	Immune + Vitamin C Tablet	Emergency-C	1	1554979976	Home Delivery	60185	Disputed	Yes	8.29	1
ryan@gmail.com	RyanPerry	28	teacher	on,Ryan Perry,28130921728833,01/22,223	31207858	2020-11-30	2020-12-03	2020-12-03	personale03	3-Ply Cloth Face Masks 50CT	Hand	3	161507485	Home Delivery	60185	Disputed	Yes	29.98	2
kelly@gmail.com	KellyBall	23	driver	on,Kelly Ball,271820192233997/02/23,111	200583451	2020-11-30	2020-12-03	2020-12-14	nutrition01	Nutriens Ultimate Lean Muscle Protein, 1	Muscle Milk	0	165425641	Home Delivery	60616	Approved	No	39.98	2
judy@gmail.com	JudyHuang	23	student	on,Judy Huang,983402391233997/02/23,111	83869856	2020-11-30	2020-12-05	2020-12-10	homecare02	Shovel Neck Pain Relieve Compress	Drive Medical	3	182434871	Store Pickup	60612	Approved	No	150.99	1
zayn@gmail.com	ZaynHaley	31	chef	on,Zayn Haley,271922981278192,12/24,443	137904122	2020-12-04	2020-12-08	2020-12-13	homecare04	Plus-Size Bariatric Blood Pressure Cuff	Drive Medical	2	185875535	Home Delivery	60657	Disputed	No	22	1
rida@gmail.com	RidaEaton	40	scientist	on,Rida Eaton,281912092185744/01/21,114	40798052	2020-12-04	2020-12-09	2020-12-17	airstream01	Airstream 1375W Professional Ionic C...	Viston	3	187312539	Store Pickup	60614	Disputed	No	19.99	1
kelly@gmail.com	KellyBall	23	driver	on,Kelly Ball,271820192233997/02/23,111	150133051	2020-12-04	2020-12-16	2020-12-17	personale01	Custom Molded Earplugs Black	Decuflex	4	210659979	Store Pickup	60615	Approved	Yes	19.69	1
angela@gmail...	AngelaMain	32	accountant	on,Angela Main,28291202223389/04/27,988	149083219	2020-12-04	2020-12-12	2020-12-13	personale01	Custom Molded Earplugs Black	Decuflex	3	250843974	Store Pickup	60623	Disputed	Yes	19.69	1
kaylum@gmail...	KaylumVinson	30	professor	on,Kaylum Vinson,938277128938129003,02/25,432	81189456	2020-12-04	2020-12-13	2020-12-19	homecare02	No Rinse Bathing Wipes	Nurture	2	384057035	Home Delivery	60411	Approved	Yes	84.5	5
jessi@gmail.com	JessiLu	22	student	on,Jessi Lu,938277128938129003,12/21,112	108811203	2020-12-04	2020-12-16	2020-12-16	medone07	Kids Coll Medine	Hylands	0	42005277	Home Delivery	60628	Approved	Yes	19.99	1
judy@gmail.com	JudyHuang	23	student	on,Judy Huang,983402391233997/02/23,111	83869856	2020-11-30	2020-12-04	2020-12-05	homecare03	Raised Toilet Seat	Drive Medical	4	472212639	Store Pickup	60612	Approved	No	73.98	2
zayn@gmail.com	ZaynHaley	31	chef	on,Zayn Haley,271922981278192,12/24,123	137994122	2020-12-04	2020-12-06	2020-12-12	medone08	Children's Honey Cough and Chest C...	DrRobust	2	480070472	Home Delivery	60657	Approved	Yes	19.99	1
angel@gmail...	AngelMain	32	accountant	on,Angel Main,28291202223389/04/27,988	149083219	2020-12-04	2020-12-08	2020-12-11	bodyscrub01	Premium Organic Body Scrub Set	pureSCUBS	2	466893598	Store Pickup	60623	Disputed	Yes	61.98	2
ryan@gmail.com	RyanPerry	28	teacher	on,Ryan Perry,273801927832112/01/22,333	200583245	2020-12-04	2020-12-09	2020-12-13	medone02	Fungal Nail Renewal 0.33 OZ	Kerasal	3	522217574	Home Delivery	60185	Approved	Yes	24.99	1
vinc@gmail.com	VincLuse	24	police	on,Vinc Luse,82512929129003,12/25,867	14738179	2020-12-04	2020-12-06	2020-12-18	vitamin09	Mins Adult 50+	Cerithum	2	541491023	Home Delivery	60185	Disputed	Yes	18.29	1
lia@gmail.com	LiaLudloom	24	driver	on,Lia Ludloom,23912862783699,02/24,222	207935705	2020-11-30	2020-12-13	2020-12-13	vitamin01	Zinc 30 mg Tablets 100 CT	Nature Made	0	67684973	Home Delivery	60605	Disputed	Yes	12.57	3
ryan@gmail.com	RyanPerry	28	teacher	on,Ryan Perry,273801927832112/01/22,333	31207858	2020-11-30	2020-12-04	2020-12-04	medone02	Sinus Severe Daytime Caplets with N...	Tylenol	1	6476572	Home Delivery	60185	Approved	No	11.99	1
kelly@gmail.com	KellyBall	23	driver	on,Kelly Ball,271820192233997/02/24,333	150213055	2020-12-04	2020-12-16	2020-12-18	vitamin05	Folic Acid Tablets 800mcg 100CT	CYS Health	0	731717838	Store Pickup	60616	Disputed	No	4.19	1
john@gmail.com	JohnWelch	23	lawyer	on,John Welch,273801927832112/01/22,333	628578202	2020-11-30	2020-12-10	2020-12-14	nutrition01	Natures Ultimate Lean Muscle Protein, 1	Muscle Milk	3	73563884	Home Delivery	60616	Disputed	Yes	19.99	1
kelly@gmail.com	KellyBall	23	driver	on,Kelly Ball,271820192233997/02/24,333	200583245	2020-11-30	2020-12-07	2020-12-04	medone02	Sinus Severe Daytime Caplets with N...	Tylenol	1	81839025	Home Delivery	60616	Approved	Yes	11.99	1
jessi@gmail.com	JessiLu	22	student	on,Jessi Lu,938277128938129003,12/21,112	108811203	2020-12-04	2020-12-07	2020-12-13	bodyscrub01	Premium Organic Body Scrub Set	pureSCUBS	2	840093330	Home Delivery	60628	Disputed	Yes	30.99	1
ned@gmail.com	NedLyon	30	dancer	on,Ned Lyon,210293980129353,12/23,999	534617881	2020-12-04	2020-12-07	2020-12-11	nutrition04	Snack Bars 12CT	Vega	4	84465339	Home Delivery	60620	Disputed	No	22.99	1
jessi@gmail.com	JessiLu	22	student	on,Jessi Lu,938277128938129003,02/25,867	14738179	2020-12-04	2020-12-11	2020-12-12	homecare07	Disposable Underpads	MedOne	1	86236884	Home Delivery	60628	Approved	Yes	14.49	1
vinc@gmail.com	VincLuse	24	police	on,Vinc Luse,82512929129003,12/25,867	14738179	2020-12-04	2020-12-11	2020-12-17	medone01	Extra Strength Rapid Release Gels w...	Tylenol	3	98249875	Home Delivery	60411	Approved	Yes	14.98	2
kaylum@gmail...	KaylumVinson	30	lawyer	on,Kaylum Vinson,938277128938129003,02/25,867	149084946	2020-12-04	2020-12-17	2020-12-18	medone01	Med One Maximum Strength Dandruff Shampoo	DraRinse	1	60185763	Home Delivery	60616	Disputed	No	6.66	1

## ● Product table

	<b>id</b>	<b>productName</b>	<b>price</b>	<b>image</b>	<b>manufacturer</b>	<b>productCondition</b>	<b>discount</b>	<b>category</b>	<b>inventory</b>
▶	Airstream	Airstream 1875W Professional Ionic Ceramic Hal...	45	new_Airstream.jpg	Vikston	New	2	personalcare	100
	Bath Brush	Bath Brush	8.99	new_bathBrushes.JPG	Gerylove	New	2	personalcare	100
	BodyScrub	Premium Organic Body Scrub Set	30.99	BodyScrub.jpg	pureSCRUBS	New	5	personalcare	100
	Gloves	Disposable Gloves Latex-Free Clear Vinyl Gloves	12.99	Gloves.jpg	Ridex	New	0	personalcare	100
	HeatingPad	Heating Pad for Neck and Shoulder Pain Relief	43.99	HeatingPad.jpg	Sunbeam	New	5	personalcare	100
	homecare01	Steel Drop Arm Bedside Commode with Padded	150.99	homecare01.jpg	Drive Medical	New	20	homecare	100
	homecare02	TransSport Aluminum Transport Wheelchair	219.99	homecare02.jpg	Drive Medical	New	20	homecare	100
	homecare03	Raised Toilet Seat	36.99	homecare03.jpg	Drive Medical	New	5	homecare	100
	homecare04	Plus-Sized Bariatric Blood Pressure Cuff	22	homecare04.jpg	Drive Medical	New	2	homecare	100
	homecare05	Master Cardiology Stethoscope 27 in Length	289.49	homecare05.jpg	Littmann	New	40	homecare	100
	homecare06	No Rinse Bathing Wipes	16.9	homecare06.jpg	Nurture	New	2	homecare	100
	homecare07	Disposable Underpads	14.49	homecare07.jpg	Medpride	New	0	homecare	100
	Magnetic	Golden Magnetic Mud Mask Rich Collagen	50.99	Magnetic.jpg	Predire	New	2	personalcare	100
	medicine01	Extra Strength Rapid Release Gels with Acetami...	7.49	medicine01.jpg	Tylenol	New	1	medicine	100
	medicine02	Sinus Severe Daytime Caplets with Non-Drowsy...	11.99	medicine02.jpg	Tylenol	New	0	medicine	100
	medicine03	Cold Max Night Cool Burst Liquid 8 fl OZ	12.19	medicine03.jpg	Tylenol	New	2	medicine	100
	medicine04	Easy Open Arthritis Cap Liquid Gel, Pain Reliever...	12.99	medicine04.jpg	Aleve	New	2	medicine	100
	medicine05	Back and Muscle Pain Tablet, Pain Reliever/Fever...	19.99	medicine05.jpg	Aleve	New	2	medicine	100
	medicine06	Allergy Medicine	19.99	medicine06.jpg	ValuMeds	New	2	medicine	100
	medicine07	Kids Cold Medicine	19.99	medicine07.jpg	Hyland's	New	6	medicine	100
	medicine08	Children's Honey Cough and Chest Congestion	19.99	medicine08.jpg	Robitussin	New	10	medicine	100
	nutrition01	Natures Ultimate Lean Muscle Protein Powder	19.99	nutrition01.jpg	Muscle Milk	New	2	nutrition	100
	nutrition02	Snacks Madagascar Vanilla Almond Bar	5.99	nutrition02.jpg	Kind	New	0	nutrition	100
	nutrition03	Protein and Greens Drink Mix 18.6 OZ	26.99	nutrition03.jpg	Vega	New	5	nutrition	100
	nutrition04	Snack Bars 12CT	22.99	nutrition04.jpg	Vega	New	5	nutrition	100
	nutrition05	Essentials Shake	40	nutrition05.jpg	Vega	New	5	nutrition	100
	personalcare01	Custom Molded Earplugs Black	19.69	personalcare01.jpg	Decibullz	New	2	personalcare	100
	personalcare02	Fungal Nail Renewal 0.33 OZ	24.99	personalcare02.jpg	Kerasal	New	2	personalcare	100
	personalcare03	3-Ply Cloth Face Masks 50CT	14.99	personalcare03.jpg	Hanes	New	1	personalcare	100
	personalcare04	Infrared Forehead Thermometer 2CT	140	personalcare04.jpg	ConairCare	New	30	personalcare	100
	personalcare05	Nighttime Lubricant Eye Ointment 0.12 OZ	12.99	personalcare05.jpg	Systane	New	2	personalcare	100
	Toothbrush	Electric Toothbrush Powerful Sonic Cleaning	24.99	Toothbrush.jpg	Fairywill	New	2	personalcare	100
	vitamin01	Zinc 30 mg Tablets 100 CT	4.19	vitamin01.jpg	Nature Made	New	1	vitamin	100
	vitamin02	Vitamin D3 50 mcg Liquid Softgels 2000 IU 90CT	28.49	vitamin02.jpg	Nature Made	New	5	vitamin	100
	vitamin03	Calm Relax with 300mg Magnesium and 125mg ...	19.99	vitamin03.jpg	Nature Made	New	5	vitamin	100
	vitamin04	Nature Made Magnesium Citrate 250 mg Softgel...	13.99	vitamin04.jpg	Nature Made	New	1	vitamin	100
	vitamin05	Folic Acid Tablets 800mcg 100CT	4.19	vitamin05.jpg	CVS Health	New	0	vitamin	100
	vitamin06	Calcium and Magnesium With Zinc Tablets	4.99	vitamin06.jpg	CVS Health	New	0	vitamin	100
	vitamin07	Vitamin C 10CT	6.49	vitamin07.jpg	Emergen-C	New	0	vitamin	100
	vitamin08	Immune + Vitamin C Tablet	8.29	vitamin08.jpg	Emergen-C	New	1	vitamin	100
	vitamin09	Minis Adult 50+	18.79	vitamin09.jpg	Centrum	New	0	vitamin	100

## ● Medical Service table

	<b>id</b>	<b>type</b>	<b>name</b>	<b>address</b>	<b>zipcode</b>	<b>longitude</b>	<b>latitude</b>
▶	1	homeHealth	store1	443 E 34TH St	60616	-87.832820	-87.614550
	2	homeHealth	store2	1224 S Wabash Ave	60605	-87.866340	-87.626020
	3	homeHealth	store3	1340 S Canal St	60607	-87.864360	-87.639860
	4	hospiceCare	store4	1220 S Ashland Ave	60608	-87.866310	-87.666510
	5	hospiceCare	store5	370 N Des Plaines St	60661	-87.888760	-87.645040
	6	hospiceCare	store6	3644 S Archer Ave	60609	-87.888760	-87.645040
	7	hospiceCare	store7	550 N State St	60654	-87.888760	-87.645040
	8	homeMedical	store8	102 W Division St	60610	-87.888760	-87.645040
	9	homeMedical	store9	424 W Division St	60610	-87.903880	-87.639630
	10	homeMedical	store10	6014 S Cottage	60614	-87.784540	-87.606550

## ● Doctor table

	<b>id</b>	<b>doctorName</b>	<b>specialty</b>	<b>address</b>	<b>state</b>	<b>city</b>	<b>phoneNum</b>	<b>zipcode</b>	<b>longitude</b>	<b>latitude</b>
▶	1	in Young Maeng	Dentist	443 E 34TH St	Illinois	Chicago	3124545641	60616	41.832820	-87.614550
	2	Emad Azab	Dentist	1224 S Wabash Ave	Illinois	Chicago	3123214242	60605	41.866340	-87.626020
	3	Cristian Pavel	Dentist	1340 S Canal St	Illinois	Chicago	7121323232	60607	41.864360	-87.639860
	4	James Urkov	Dentist	1220 S Ashland Ave	Illinois	Chicago	7111234789	60608	41.866310	-87.666510
	5	Joanna Slusky	Eye Doctor	370 N Des Plaines St	Illinois	Chicago	1234567894	60661	41.888760	-87.645040
	6	Chet Steinmetz	Eye Doctor	3644 S Archer Ave	Illinois	Chicago	36412457892	60609	41.888760	-87.645040
	7	Randall (Randy) Ricketts	Eye Doctor	550 N State St	Illinois	Chicago	3641236974	60654	41.888760	-87.645040
	8	George Michael Lewitt	Dermatologist	102 W Division St	Illinois	Chicago	369451235	60610	41.888760	-87.645040
	9	Raymond Kleinfelder	Dermatologist	424 W Division St	Illinois	Chicago	321458971	60610	41.903880	-87.639630
	10	Carla Sanchez-Palacios	Dermatologist	6014 S Cottage	Illinois	Chicago	3641234569	60614	41.784540	-87.606550
	11	Emad Azab	Dentist	1224 S Wabash Ave	New York	New York	3123214242	10009	40.769760	-73.965320
	12	Cristian Pavel	Dentist	1340 S Canal St	Illinois	Chicago	7121323232	60607	41.864234	-87.639760
	13	Martin S Pine	Allergist	35 E 35th Street	New York	New York	11234789	10012	40.748250	-73.981500
	14	David Kaplowitz	Internist	710 Park Ave	New York	New York	234567894	10021	40.769760	-73.965330
	15	Charles Paolino	Internist	314 West 14th Street	New York	New York	36412457892	10014	40.739870	-74.003520
	16	Douglas Bailyn	Internist	111 Broadway	New York	New York	3641236974	10006...	41.499630	-74.011680
	17	Sandeep Soman	Internist	309 W 23rd St	New York	New York	169451235	10011	40.745480	-73.998800
	18	Omid Nikrouz	Internist	30 East 60th Street	New York	New York	221458971	10022	40.763830	-73.970280
	19	Samuel Saburian	ENT Doctor	705 East 72nd Street	New York	New York	121177455	10021	40.777210	-73.981200

## ● Appointment Table

doctorId	fullName	gender	birth	address	phone	email	date	userName
8	JudyHuang	female	1996-03-12	2045 W Jackson Blvd Chicago IL 60610	3827362222	judy@gmail.com	2020-12-15	judy@gmail.com

## ● Stores table

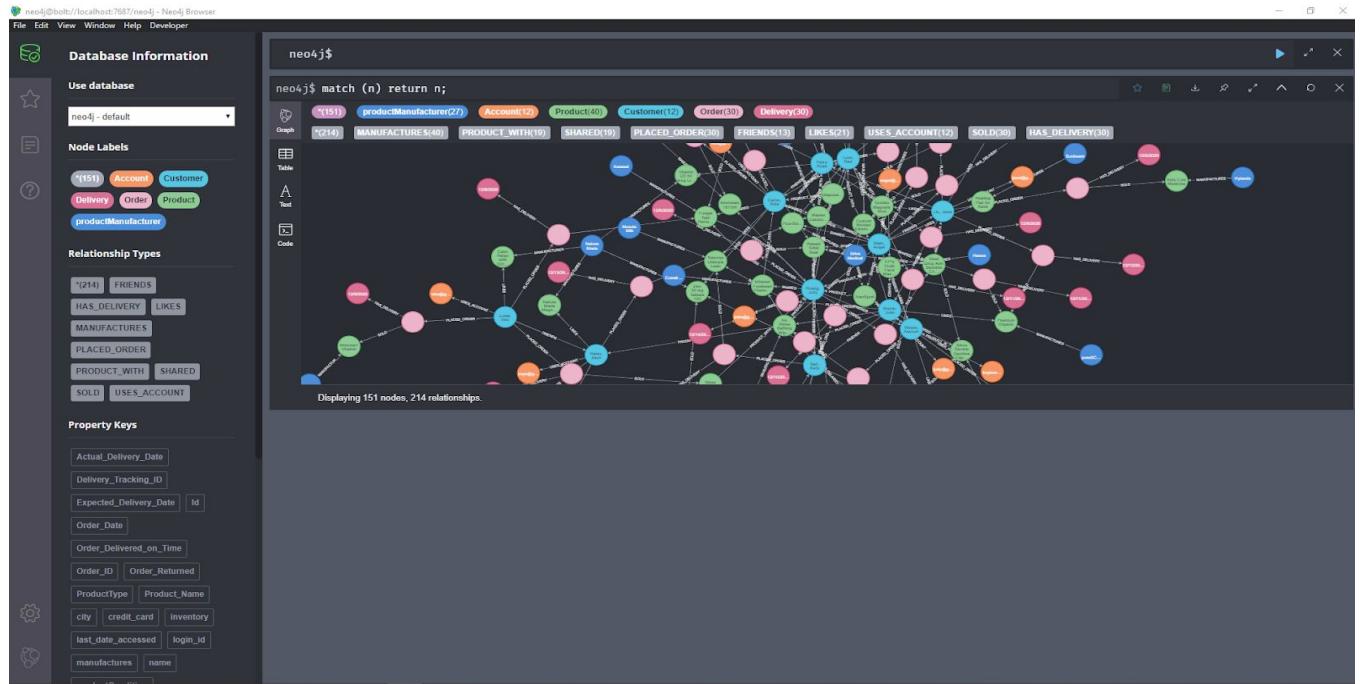
id	name	address	zipcode	longitude	latitude
1	store1	443 E 34TH St	60616	-87.61455	41.83282
2	store2	1224 S Wabash Ave	60605	-87.62602	41.86634
3	store3	1340 S Canal St	60607	-87.63986	41.86436
4	store4	1220 S Ashland Ave	60608	-87.66651	41.86631
5	store5	370 N Des Plaines St	60661	-87.64504	41.88876
6	store6	3644 S Archer Ave	60609	-87.64504	41.88876
7	store7	550 N State St	60654	-87.64504	41.88876
8	store8	102 W Division St	60610	-87.64504	41.88876
9	store9	424 W Division St	60610	-87.63963	41.90388
10	store10	6014 S Cottage	60614	-87.60655	41.78454

## MongoDB reviews (NoSql Database)

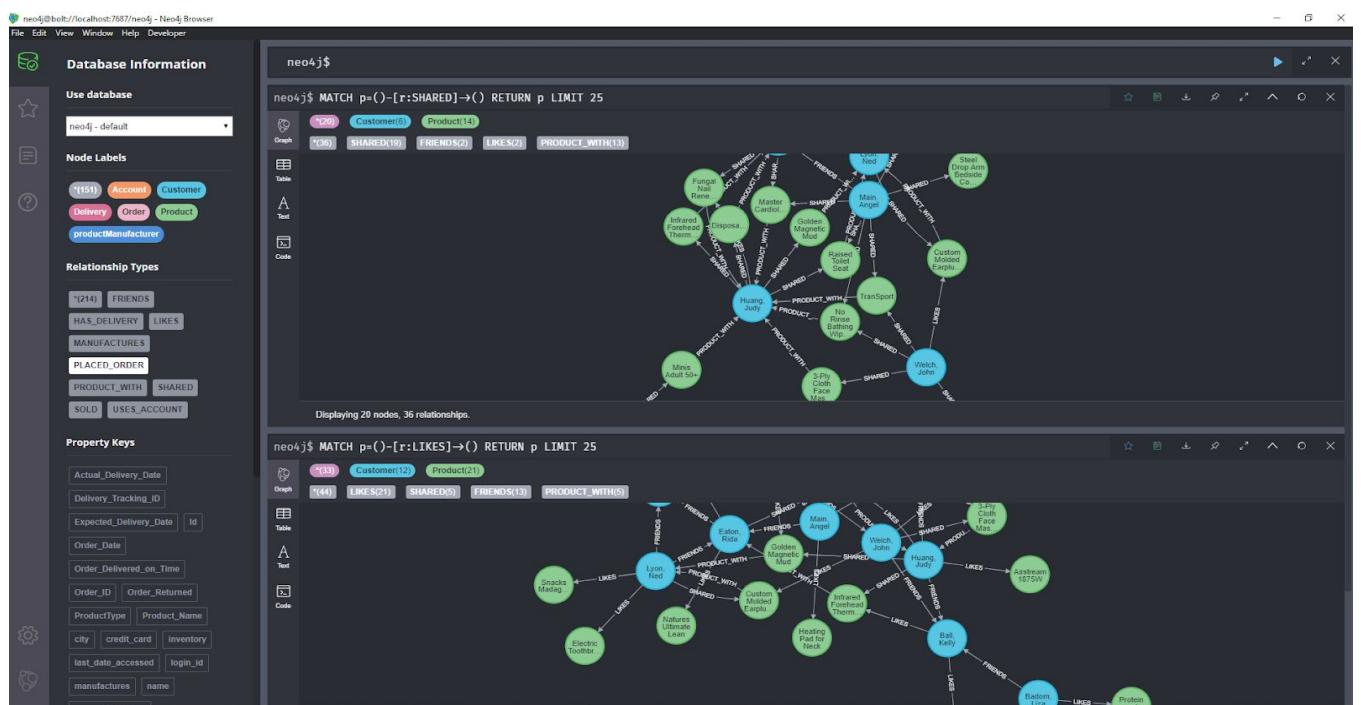
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> db.healthhubReviews.find()
{
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{
  "_id": ObjectId("5fcc730b0d433d19756ca72"), "title": "healthhubReviews", "userName": "vicky123@gmail.com", "productName": "Airstream 1875W Professional Ionic Ceramic Hair Dryer", "headline": "really great", "rating": 5, "text": "the noise", "zipcode": "43950", "city": "Saint Clairsville", "productPrice": 19.99 }
{
  "_id": ObjectId("5fd1bb088492452642b010"), "title": "healthhubReviews", "userName": "judy@gmail.com", "productName": "Folic Acid Tablets 800mcg 100CT", "headline": "it works", "rating": 4, "text": "it is amazing", "zipcode": "60616", "city": "Chicago", "productPrice": 4.19 }
{
  "_id": ObjectId("5fd1c2888492452642b010"), "title": "healthhubReviews", "userName": "liza@gmail.com", "productName": "Folic Acid Tablets 800mcg 100CT", "headline": "worth it", "rating": 4, "text": "I like the items and the tan get good service", "zipcode": "60605", "city": "Chicago", "productPrice": 4.19 }
{
  "_id": ObjectId("5fd1c788492452642b010"), "title": "healthhubReviews", "userName": "liza@gmail.com", "productName": "Calcium and Magnesium With Zinc Tablets", "headline": "okay", "rating": 3, "text": "no side effects on me", "zipcode": "60605", "city": "Chicago", "productPrice": 4.99 }
{
  "_id": ObjectId("5fd1d088492452642b010"), "title": "healthhubReviews", "userName": "liza@gmail.com", "productName": "Immune+ Vitamin C Tablet", "headline": "worth it", "rating": 5, "text": "It is easy to eat and good!", "zipcode": "60628", "city": "Chicago", "productPrice": 8.29 }
{
  "_id": ObjectId("5fd1e088492452642b010"), "title": "healthhubReviews", "userName": "liza@gmail.com", "productName": "Custom Molded Earplugs Black", "headline": "easy to use", "rating": 5, "text": "These earplugs are definitely as advertised. The instructions are very clean on how the molding works, making it simple. They are very comfortable. Great product.", "zipcode": "60605", "city": "Chicago", "productPrice": 19.69 }
{
  "_id": ObjectId("5fd1e088492452642b024"), "title": "healthhubReviews", "userName": "ned@gmail.com", "productName": "Custom Molded Earplugs Black", "headline": "Super Easy To Fit", "rating": 5, "text": "Love the earplugs- super easy to fit. I have been looking for something like this for a while.", "zipcode": "60628", "city": "Chicago", "productPrice": 19.69 }
{
  "_id": ObjectId("5fd1d1088492452642b026"), "title": "healthhubReviews", "userName": "ned@gmail.com", "productName": "Zinc 30 mg Tablets 100 CT", "headline": "Best", "rating": 5, "text": "Best brand of vitamins out there :) need more", "zipcode": "60628", "city": "Chicago", "productPrice": 4.19 }
{
  "_id": ObjectId("5fd1d1088492452642b028"), "title": "healthhubReviews", "userName": "ned@gmail.com", "productName": "Calcium and Magnesium With Zinc Tablets", "headline": "mixed feeling", "rating": 3, "text": "I have mixed feelings about this product. I bought it because we have been trying to have a baby for about 6 months now and I read that taking these would help. I only took these pills for about a week... and I got pregnant. So that's awesome! They worked for me.. however. There is magnesium inside which if you don't? know make you poop A LOT. It works as a laxative. It was hard for me to be at work because I would randomly have to just run to the bathroom and explode. But after I went to the doctor. So I?m so grateful for these pills that I believe helped me get pregnant. But I stopped taking them shortly.", "zipcode": "60628", "city": "Chicago", "productPrice": 4.99 }
{
  "_id": ObjectId("5fd1d088492452642b028"), "title": "healthhubReviews", "userName": "ned@gmail.com", "productName": "Vitamin C 10CT", "headline": "Getting a head start", "rating": 4, "text": "Needed these just in time to find out I'm pregnant!!", "zipcode": "60628", "city": "Chicago", "productPrice": 4.49 }
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{
  "_id": ObjectId("5fd1d088492452642b028"), "title": "healthhubReviews", "userName": "ridagmail.com", "productName": "Cold Max Night Cool Burst Liquid 8 fl OZ", "headline": "Deformed bottle", "rating": 1, "text": "This is how my package came. Completely deformed. I?m glad people are being paid not to work apparently. Extremely annoying.", "zipcode": "60618", "city": "Chicago", "productPrice": 12.19 }
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  "_id": ObjectId("5fd1d088492452642b028"), "title": "healthhubReviews", "userName": "ridagmail.com", "productName": "Extra Strength Rapid Release Gels with Acetaminophen", "headline": "I like saving money", "rating": 5, "text": "Cheaper no taste. One bottle last for 3 months (little more), get it every 3 months...", "zipcode": "60604", "city": "Chicago", "productPrice": 7.49 }
{
  "_id": ObjectId("5fd1d088492452642b028"), "title": "healthhubReviews", "userName": "ridagmail.com", "productName": "Steel Drop Arm Bedside Commode with Padded", "headline": "I swear, no inappropriate oaths necessary!", "rating": 5, "text": "truly easy to use, and truly easy to assemble. The only product needing assembly I haven't had to use inappropriate language to help the process along in the last 20 years! EASY to use directions that actually made sense", "zipcode": "60604", "city": "Chicago", "productPrice": 150.99 }
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  "_id": ObjectId("5fd1d088492452642b028"), "title": "healthhubReviews", "userName": "ridagmail.com", "productName": "Transport Aluminum Transport Wheelchair", "headline": "I weigh 260, it supports me fine.", "rating": 5, "text": "Easy to put together. Strong, easy to use, the adjustable leg heights are a big plus.", "zipcode": "60604", "city": "Chicago", "productPrice": 219.99 }
{
  "_id": ObjectId("5fd1d088492452642b028"), "title": "healthhubReviews", "userName": "ridagmail.com", "productName": "Folic Acid Tablets 800mcg 100CT", "headline": "Small and effective", "rating": 5, "text": "Folic acid is great for the heart. Good to take daily. These were great.", "zipcode": "60604", "city": "Chicago", "productPrice": 4.19 }
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  "_id": ObjectId("5fd1ec088492452642b030"), "title": "healthhubReviews", "userName": "ridagmail.com", "productName": "Sinus Severe Daytime Caplets with Non-Drowsy Formula 24 CT", "headline": "Would buy again", "rating": 5, "text": "I would buy again", "zipcode": "60604", "city": "Chicago", "productPrice": 11.99 }
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  "_id": ObjectId("5fd1d088492452642b030"), "title": "healthhubReviews", "userName": "ridagmail.com", "productName": "Custom Molded Earplugs Black", "headline": "Finally", "rating": 5, "text": "Finally ear plugs that are comfortable and work. The lanayards work perfectly. Always worried id loose when mowing grass but no problems and hearing protection is great", "zipcode": "60604", "city": "Chicago", "productPrice": 19.69 }
{
  "_id": ObjectId("5fd1f2488492452642b037"), "title": "healthhubReviews", "userName": "jessi@gmail.com", "productName": "Steel Drop Arm Bedside Commode with Padded", "headline": "Unusable", "rating": 1, "text": "and sent on to the next person. Contained no directions, no list of parts, and no hardware. I have a pile of steel tubes, a bucket, and a toilet set. I needed this NOW, as my mom's discharge date from the nursing home was moved up by a week, so now I can bite my nails while I hope a replacement arrives in time.", "zipcode": "60628", "city": "Chicago", "productPrice": 150.99 }
```

## Knowledge Graph Neo4j Database

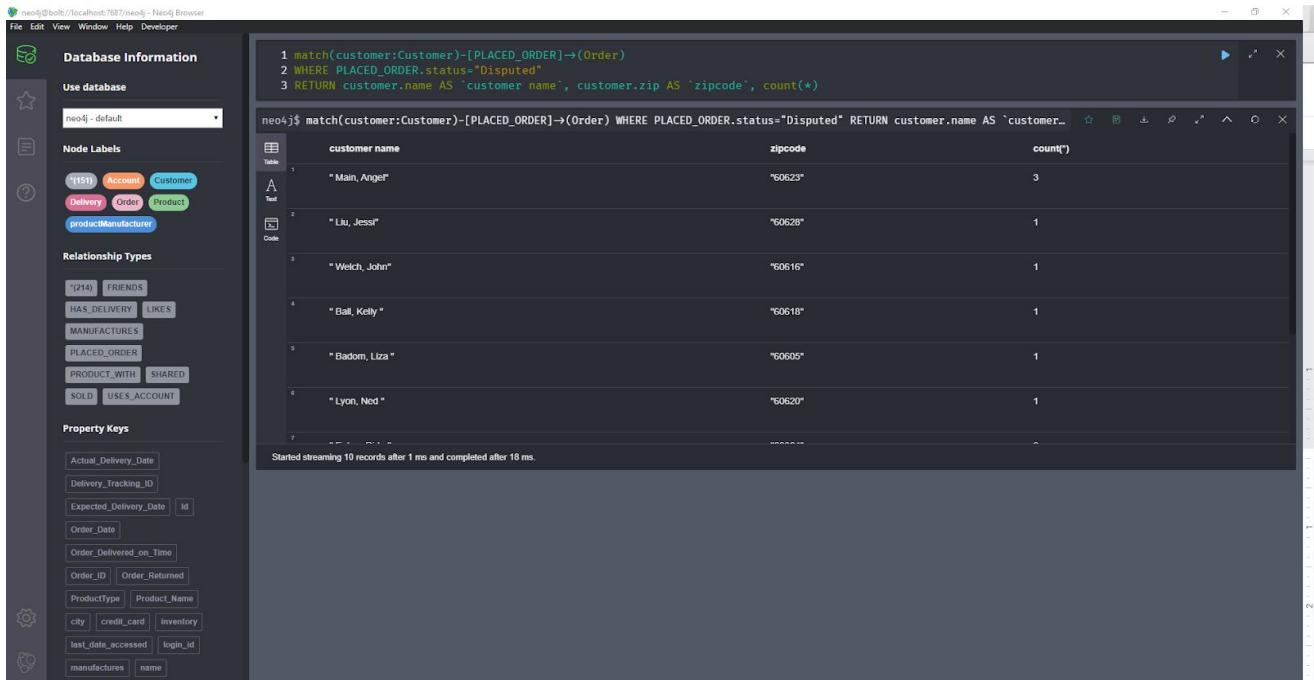
- We can see all nodes and relationships in the graph as follows:
- We get 151 nodes (6 labels) and 214 relationships (9 types)



- We can analyse data based on relationships like USES\_ACCOUNT, MANUFACTURES, SOLD, PLACED\_ORDER, FRIENDS, SHARED, LIKES, etc.



- We can analyze queries like “Get the number of disputed transactions and the list of customer names for these disputed transactions for Delivery Zip Code” as follows:

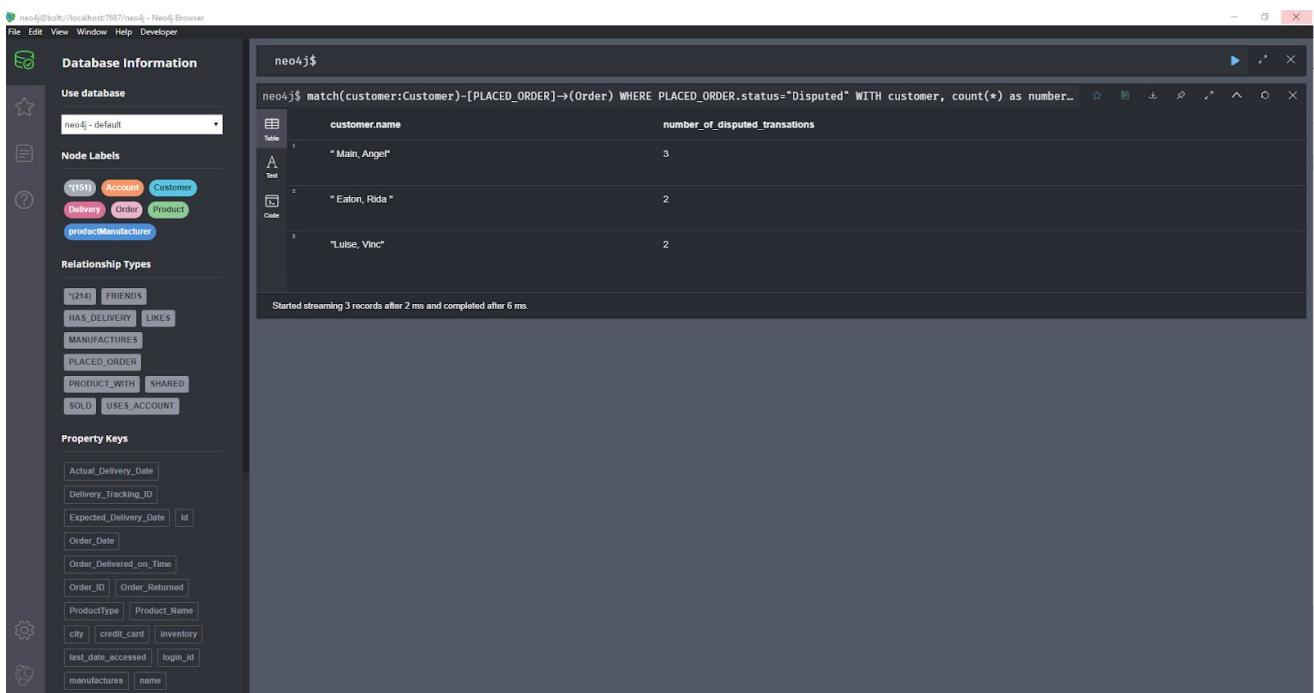


The screenshot shows the Neo4j Browser interface with a query results table. The query is:
`1 match(customer:Customer)-[PLACED_ORDER]-(Order)
2 WHERE PLACED_ORDER.status="Disputed"
3 RETURN customer.name AS 'customer name', customer.zip AS 'zipcode', count(*)`

	customer name	zipcode	count(*)
1	"Main, Angel"	"60623"	3
2	"Liu, Jessi"	"60628"	1
3	"Welch, John"	"60616"	1
4	"Ball, Kelly"	"60618"	1
5	"Badom, Liza"	"60605"	1
6	"Lyon, Ned"	"60620"	1

Started streaming 10 records after 1 ms and completed after 18 ms.

- We can find the number of disputed transactions for EVERY CUSTOMER that has more than one disputed transaction as follows:



The screenshot shows the Neo4j Browser interface with a query results table. The query is:
`neo4j$ match(customer:Customer)-[PLACED_ORDER]-(Order) WHERE PLACED_ORDER.status="Disputed" WITH customer, count(*) as number_
 | customer.name
number_
"Main, Angel"
3
-----
"Eaton, Rida"
2
-----
"Luise, Vinc"
2`

customer.name	number_of_disputed_transactions
"Main, Angel"	3
"Eaton, Rida"	2
"Luise, Vinc"	2

Started streaming 3 records after 2 ms and completed after 6 ms.