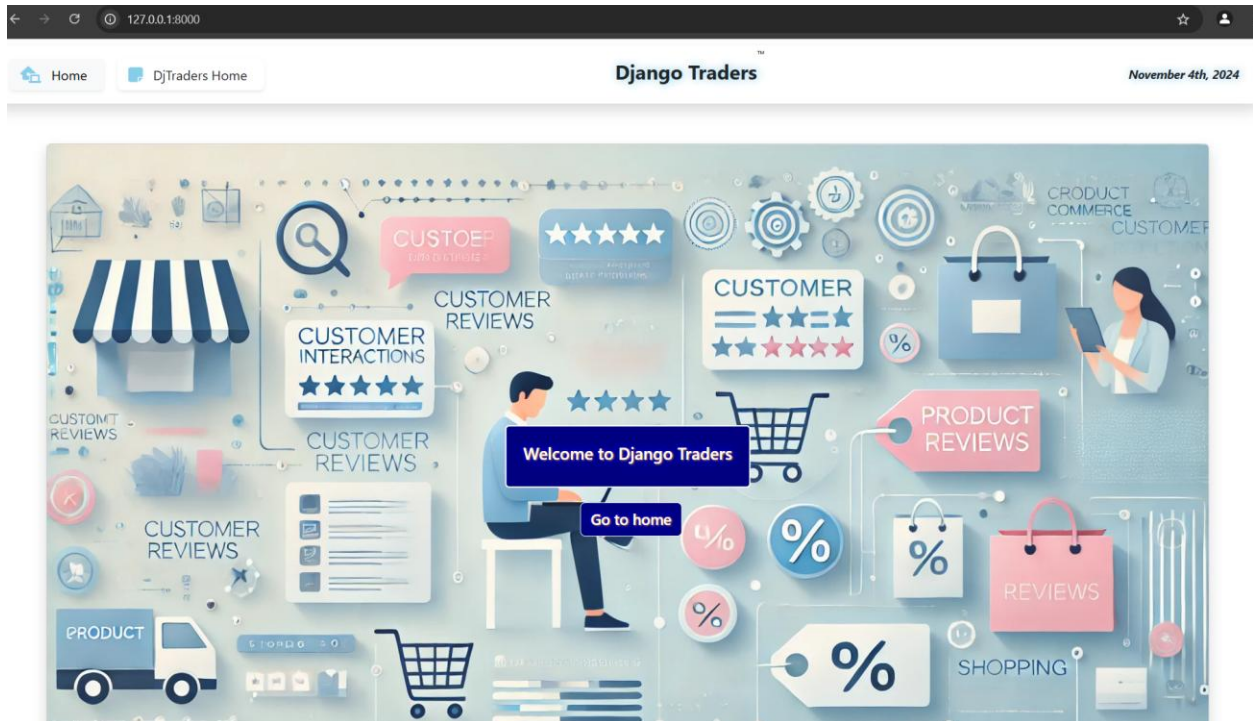


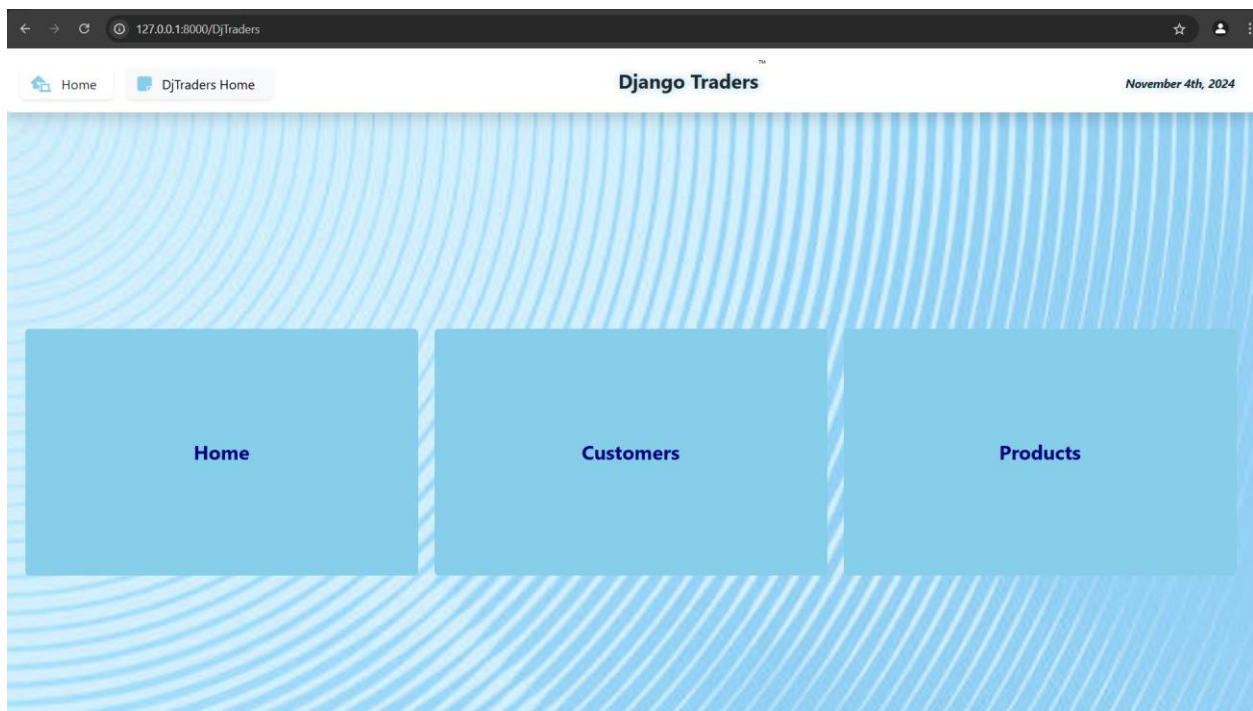
Home Page For Django Traders:



Django Traders Home: (Home, Customer, Products)

If the user clicks on Customers, then it will navigate to customer list view.

If the user clicks on the Products, then it will navigate to products list view.



Requirements:

Requirement #1 [45 %]: Manage Customers and their Orders - including Read and Write.

Part A: Customer Search and Display**List view of Customers:**

127.0.0.1:8000/DjTraders/Customers

Home DjTraders Home

Django Traders November 4th, 2024

Search Customers By:

Customer: Customer Name

Contact: Contact Name

City:

Country:

Search Reset Add Customer

10 entries per page Filter results:

Customer	Contact	Address	City	Postal Code	Country	View	Edit	Delete
Around the Horn	Thomas Hardy	120 Hanover Sq.	London	WA1 1DP	UK			
Berglunds snabbkoop	Christina Berglund	Berguvsvegen 8	Lulea	S-958 22	Sweden			
Blauer See Delikatessen	Hanna Moos	Forsterstr. 57	Mannheim	68306	Germany			
Blondel pere et fils	Frederique Citeaux	24, place Kleber	Strasbourg	67000	France			
Bolido Comidas preparadas	Martin Sommer	C/ Araquil, 67	Madrid	28023	Spain			
Bon app	Laurence Lebihans	12, rue des Bouchers	Marseille	13008	France			
Bottom-Dollar Marketse	Elizabeth Lincoln	23 Tsawassen Blvd.	Tsawassen	T2F 8M4	Canada			
Bs Beverages	Victoria Ashworth	Fauntleroy Circus	London	EC2 5NT	UK			
Cactus Comidas para llevar	Patricio Simpson	Cerrito 333	Buenos Aires	1010	Argentina			
Centro comercial Moctezuma	Francisco Chang	Sierras de Granada 9993	Mexico D.F.	05022	Mexico			

Showing 1 to 10 of 90 entries

1 2 3 4 5 ... 9

ISM 672

Search functionality with Customer Name:

127.0.0.1:8000/DjTraders/Customers?srchCustomerName=Nisha&srchContactName=&srchCity=&srchCountry=

Home DjTraders Home

Django Traders November 4th, 2024

Search Customers By:Nisha

Customer: Nisha

Contact: Contact Name

City:

Country:

Search Reset Add Customer

entries per page Filter results:

Customer	Contact	Address	City	Postal Code	Country	View	Edit	Delete
Nisha Patil	Manish Patil	Brook arbor dr	Cary	27519	USA			

Showing 1 to 1 of 1 entry

1

ISM 672

Search functionality with Contact Name:

127.0.0.1:8000/DjTraders/Customers?srchCustomerName=&srchContactName=Manish&srchCity=&srchCountry=

Home DjTraders Home Django Traders November 4th, 2024

Search Customers By: Manish

Customer: Contact: City: Country:

Search Reset Add Customer

entries per page Filter results:

Customer	Contact	Address	City	Postal Code	Country	View	Edit	Delete
Nisha Patil	Manish Patil	Brook arbor dr	Cary	27519	USA			

Showing 1 to 1 of 1 entry

ISM 672

Search functionality with City:

127.0.0.1:8000/DjTraders/Customers?srchCustomerName=&srchContactName=&srchCity=Cary&srchCountry=

Home DjTraders Home Django Traders November 4th, 2024

Search Customers By: Cary

Customer: Contact: City: Country:

Search Reset Add Customer

entries per page Filter results:

Customer	Contact	Address	City	Postal Code	Country	View	Edit	Delete
Nisha Patil	Manish Patil	Brook arbor dr	Cary	27519	USA			

Showing 1 to 1 of 1 entry

ISM 672

Search functionality with Country:

127.0.0.1:8000/DjTraders/Customers?srchCustomerName=&srchContactName=&srchCity=&srchCountry=USA

Search Customers By: USA

Customer: Contact: City:

Country: USA

Search Reset Add Customer

entries per page Filter results:

Customer	Contact	Address	City	Postal Code	Country	View	Edit	Delete
Great Lakes Food Market	Howard Snyder	2732 Baker Blvd.	Eugene	97403	USA			
Hungry Coyote Import Store	Yoshi Latimer	City Center Plaza 516 Main St.	Elgin	97827	USA			
Lazy K Kountry Store	John Steel	12 Orchestra Terrace	Walla Walla	99362	USA			
Lets Stop N Shop	Jaime Yorres	87 Polk St. Suite 5	San Francisco	94117	USA			
Lonesome Pine Restaurant	Fran Wilson	89 Chiaroscuro Rd.	Portland	97219	USA			
Nisha Patil	Manish Patil	Brook arbor dr	Cary	27519	USA			
Old World Delicatessen	Rene Phillips	2743 Bering St.	Anchorage	99508	USA			
Rattlesnake Canyon Grocery	Paula Wilson	2817 Milton Dr.	Albuquerque	87110	USA			
Save-a-lot Markets	Jose Pavarotti	187 Suffolk Ln.	Boise	83720	USA			
Split Rail Beer & Ale	Art Braunschweiger	P.O. Box 555	Lander	82520	USA			
The Big Cheese	Liz Nixon	89 Jefferson Way Suite 2	Portland	97201	USA			
The Cracker Box	Liu Wong	55 Grizzly Peak Rd.	Butte	59801	USA			
Trails Head Gourmet Provisioners	Helvetius Nagy	722 DaVinci Blvd.	Kirkland	98034	USA			
White Clover Markets	Karl Jablonski	305 - 14th Ave. S. Suite 3B	Seattle	98128	USA			

When I click on **Reset** then all the fields are reset. And the customer list should appears.

127.0.0.1:8000/DjTraders/Cust: x +

127.0.0.1:8000/DjTraders/Customers?srchCustomerName=&srchContactName=&srchCity=&srchCountry=

Home DjTraders Home

Django Traders November 4th, 2024

Search Customers By:

Customer: Contact: City:

Country:

Search Reset Add Customer

entries per page Filter results:

Customer	Contact	Address	City	Postal Code	Country	View	Edit	Delete
Around the Horn	Thomas Hardy	120 Hanover Sq.	London	WA1 1DP	UK			
Berglunds snabbkoop	Christina Berglund	Berguvsvegen 8	Lulea	S-958 22	Sweden			
Blauer See Delikatessen	Hanna Moos	Forsterstr. 57	Mannheim	68306	Germany			
Blondel pere et fils	Frederique Citeaux	24, place Kleber	Strasbourg	67000	France			
Bolido Comidas preparadas	Martin Sommer	C/ Araquil, 67	Madrid	28023	Spain			
Bon app	Laurence Lebihans	12, rue des Bouchers	Marseille	13008	France			
Bottom-Dollar Marketse	Elizabeth Lincoln	23 Tsawassen Blvd.	Tsawassen	T2F 8M4	Canada			
Bs Beverages	Victoria Ashworth	Fauntleroy Circus	London	EC2 5NT	UK			
Cactus Comidas para llevar	Patricio Simpson	Cerrito 333	Buenos Aires	1010	Argentina			
Centro comercial Moctezuma	Francisco Chang	Sierras de Granada 9993	Mexico D.F.	05022	Mexico			
Chop-suey Chinese	Yang Wang	Hauptstr. 29	Bern	3012	Switzerland			
Comercio Mineiro	Pedro Afonso	Av. dos Lusíadas, 23	Sao Paulo	05432-043	Brazil			
Consolidated Holdings	Elizabeth Brown	Berkeley Gardens 12 Brewery	London	WX1 6LT	UK			

Pagination Applied For 10 pages: (Depends on what you select in entries per page dropdown)

Django Traders November 4th, 2024

Search Customers By: Customer Name, Contact Name, City, Country

10 entries per page Filter results:

Customer	Contact	Address	City	Postal Code	Country	View	Edit	Delete
Around the Horn	Thomas Hardy	120 Hanover Sq.	London	WA1 1DP	UK			
Berglunds snabbkoop	Christina Berglund	Berguvsvegen 8	Lulea	S-958 22	Sweden			
Blauer See Delikatessen	Hanna Moos	Forsterstr. 57	Mannheim	68306	Germany			
Blondel pere et fils	Frederique Citeaux	24, place Kleber	Strasbourg	67000	France			
Bolido Comidas preparadas	Martin Sommer	C/ Araquil, 67	Madrid	28023	Spain			
Bon app	Laurence Lebihans	12, rue des Bouchers	Marseille	13008	France			
Bottom-Dollar Marketse	Elizabeth Lincoln	23 Tsawassen Blvd.	Tsawassen	T2F 8M4	Canada			
Bs Beverages	Victoria Ashworth	Fauntleroy Circus	London	EC2 5NT	UK			
Cactus Comidas para llevar	Patricio Simpson	Cerrito 333	Buenos Aires	1010	Argentina			
Centro comercial Moctezuma	Francisco Chang	Sierras de Granada 9993	Mexico D.F.	05022	Mexico			

Showing 1 to 10 of 90 entries

Filter the list view data with Customer name, Contact name, Address, City, Country and Postal Code.

Django Traders November 4th, 2024

Search Customers By: Customer Name, Contact Name, City, Country

10 entries per page Filter results: Nisha

Customer	Contact	Address	City	Postal Code	Country	View	Edit	Delete
Nisha Patil	Manish Patil	Brook arbor dr	Cary	27519	USA			

Showing 1 to 1 of 1 entry (filtered from 90 total entries)

Part B: Customers Details View:

In this view, there is an information about the customer - name, contact, address, city, country and postal code. Also an information about the orders that the customers have placed.

The screenshot shows a web browser window with the URL `127.0.0.1:8000/DjTraders/CustomerDetail/4`. The page has a navigation bar with 'Home' and 'DjTraders Home' links, the 'Django Traders' logo, and the date 'November 4th, 2024'. The main content area is titled 'Around the Horn' and displays customer information and their orders.

Customer Information

Customer Name : Around the Horn
 Contact Name : Thomas Hardy
 Address : 120 Hanover Sq.
 City : London
 Postal Code : WA1 1DP
 Country : UK
 Order Placed : 13

1. Order ID: 10355 placed on Nov. 15, 2021

Name	Qty	Price	Total
Guarani Fantastica	25	\$4.50	\$112.50
Ravioli Angelo	25	\$19.50	\$487.50
Order Total			\$600.00

2. Order ID: 10383 placed on Dec. 16, 2021

Name	Qty	Price	Total
Konbu	20	\$6.00	\$120.00
Valkoinen suklaa	15	\$16.25	\$243.75
Gnocchi di nonna Alice	20	\$38.00	\$760.00
Order Total			\$1123.75

3. Order ID: 10453 placed on Feb. 21, 2022

Name	Qty	Price	Total
Chocolade	15	\$12.75	\$191.25
Outback Lager	25	\$15.00	\$375.00
Order Total			\$566.25

Part C: Create and Update:

Create form for Customer: On the customers list, if user click on the 'Add Customer' button then it will navigate to the add customer form.

127.0.0.1:8000/DjTraders/Customers/new

Home DjTraders Home

Django Traders

November 4th, 2024

Add Customer Form

Customer name*

Contact name*

Address*

City*

Postal code*

Country*

Save Cancel

View Customer List

ISM 672

Validations for Create Customer Form:

127.0.0.1:8000/DjTraders/Customers/new

Home DjTraders Home

Django Traders

November 4th, 2024

Add Customer Form

Customer name*

Customer name should not be numeric.

Contact name*

Contact name should not be numeric.

Address*

City*

City name should not be numeric.

Postal code*

Postal Code must be 5 characters long.

Country*

Country name should not be numeric.

Customer name: Customer name should not be numeric.
Contact name: Contact name should not be numeric.
City: City name should not be numeric.
Postal code: Postal Code must be 5 characters long.
Country: Country name should not be numeric.

Save Cancel

View Customer List

The save and cancel buttons are for saving the customer form with accepting all validations by clicking on the save button and if user click on cancel button, then it will navigate to the customer list view page. Also, the View Customer List button will navigate to the customer list view page.

Update Customer form with data:

127.0.0.1:8000/DjTraders/Customers/4/Edit

Home DjTraders Home

Django Traders November 4th, 2024

Edit Customer Form

Customer name*

Around the Horn

Contact name*

Thomas Hardy

Address*

120 Hanover Sq.

City*

London

Postal code*

WA1 1DP

Country*

UK

Save Cancel

View Customer List

ISM 672

Below 4 entries are successfully saved in database using create customer form and modified by using update (Edit) customer form.

pgAdmin 4

Object Explorer

Functions
Materialized Views
Operators
Procedures
Sequences
Tables (16)
auth_group
auth_group_permission
auth_permission
auth_user
auth_user_groups
auth_user_user_permissions
categories
customers
django_admin_log
django_content_type
django_migrations
django_session
order_details
orders
products
testproducts
Trigger Functions
Types
Views
Subscriptions
DjangoTraders1
postgres
Login/Group Roles (16)
pg_checkpoint
pg_create_subscription
pg_database_owner
pg_execute_server_program
pg_maintain

public.customers/DjangoTraders/postgres@PostgreSQL 17

Query Query History

```
1 SELECT * FROM public.customers
2 ORDER BY customer_id ASC
```

Data Output Messages Notifications

customer_id	customer_name	contact_name	address	city	postal_code	country
71	Split Rail Beer & Ale	Art Braunschweiger	P.O. Box 555	Lander	82520	USA
72	Supremes delices	Pascale Cartrain	Boulevard Tirou, 255	Charleroi	B-6000	Belgium
73	The Big Cheese	Liz Nixon	89 Jefferson Way Suite 2	Portland	97201	USA
74	The Cracker Box	Liu Wong	55 Grizzly Peak Rd.	Butte	59801	USA
75	Toms Spezialiteten	Karin Josephs	Luisenstr. 48	Manster	44087	Germany
76	Tortuga Restaurante	Miguel Angel Paolino	Avda. Azteca 123	Mexico D.F.	05033	Mexico
77	Tradicao Hipermercados	Anabela Domingues	Av. Ines de Castro, 414	Sao Paulo	05634-030	Brazil
78	Trails Head Gourmet Provisioners	Helvetius Nagy	722 DaVinci Blvd.	Kirkland	98034	USA
79	Vaffeljernet	Palle Ipsen	Smagsloget 45	Aarhus	8200	Denmark
80	Victuailles en stock	Mary Saveley	2, rue du Commerce	Lyon	69004	France
81	Vins et alcools Chevalier	Paul Henriot	59 rue de l'Abbaye	Reims	51100	France
82	Die Wandernde Kuh	Rita Moller	Adenauerallee 900	Stuttgart	70563	Germany
83	Wartian Herkku	Pirkko Koskitalo	Torikatu 38	Oulu	90110	Finland
84	Wellington Importadora	Paula Parente	Rua do Mercado, 12	Resende	08737-363	Brazil
85	White Clover Markets	Karl Jablonski	305 - 14th Ave. S. Suite 3B	Seattle	98128	USA
86	Wilman Kala	Matti Karttunen	Keskuskatu 45	Helsinki	21240	Finland
87	Nisha Patil	Manish Patil	Brook arbor dr	Cary	27519	USA
88	Sneha Chaudhari	Vinit	Plot no. 1, Tilak Nagar	Jalgaon	425002	India
89	Vrushali	Jagdish	Baner	Pune	51127	India
90	Nikhil Patil	Anagha Patil	Petals society	Pune	51163	India

Total rows: 90 of 90 Query complete 00:00:00.165 Ln 1, Col 1

Requirements:

Requirement #1 [45 %]: Manage Customers and their Orders - including Read and Write.

Part A: Customer Search and Display:**List view of Products:**

Search Products By:

Product Name: Price Comparison: Price: Category:

Search

entries per page

Filter results:

Product Name	Category Name	Price	Unit	View	Edit	Delete	Purchase Summary
Aniseed Syrup	Condiments	10.00	12 - 550 ml bottles				
Boston Crab Meat	Seafood	18.40	24 - 4 oz tins				
Camembert Pierrot	Dairy Products	34.00	15 - 300 g rounds				
Carnarvon Tigers	Seafood	62.50	16 kg pkg.				
Chais	Beverages	18.00	10 boxes x 20 bags				
Chai Tea Latte	Beverages	60.00	20				
Chang	Beverages	19.00	24 - 12 oz bottles				
Chartreuse verte	Beverages	18.00	750 cc per bottle				
Chef Antons Cajun Seasoning	Condiments	22.00	48 - 6 oz jars				
Chef Antons Gumbo Mix	Condiments	21.35	36 boxes				
Chocolade	Confections	12.75	10 pkgs.				
Cote de Blaye	Beverages	263.50	12 - 75 cl bottles				

Search functionality with Product Name:

Search Products By: Boston

Product Name: Price Comparison: Price: Category:

Search

entries per page

Filter results:

Product Name	Category Name	Price	Unit	View	Edit	Delete	Purchase Summary
Boston Crab Meat	Seafood	18.40	24 - 4 oz tins				

Showing 1 to 1 of 1 entry

ISM 672

Search functionality with Price on Price Comparison: User can select price range or comparison like greater than, less than and equal to and then select price, so that user will get exact data between that range.

The screenshot shows the Django Traders application interface. The search bar is set to "Search Products By: 10". The "Price Comparison" dropdown is set to "Less Than" and the "Price" input field contains "10". The search results table displays 11 entries, showing product names, categories, prices, and units. The products listed are:

Product Name	Category Name	Price	Unit	View	Edit	Delete	Purchase Summary
Filo Mix	Grains/Cereals	7.00	16 - 2 kg boxes				
Geitost	Dairy Products	2.50	500 g				
Guarani Fantastica	Beverages	4.50	12 - 355 ml cans				
Jacks New England Clam Chowder	Seafood	9.65	12 - 12 oz cans				
Konbu	Seafood	6.00	2 kg box				
Rhenbreu Klosterbier	Beverages	7.75	24 - 0.5 l bottles				
Rogede sild	Seafood	9.50	1k pkg.				
Teatime Chocolate Biscuits	Confections	9.20	10 boxes x 12 pieces				
Tourtiare	Meat/Poultry	7.45	16 pies				
Tunnbrod	Grains/Cereals	9.00	12 - 250 g pkgs.				
Zaanse koeken	Confections	9.50	10 - 4 oz boxes				

Showing 1 to 11 of 11 entries

Search functionality with Category: This is a dropdown field; user can select the category from it and search. User will get all records related to that category which he selected.

The screenshot shows the Django Traders application interface. The search bar is set to "Search Products By: Meat/Poultry". The "Category" dropdown is set to "Meat/Poultry". The search results table displays 5 entries, showing product names, categories, prices, and units. The products listed are:

Product Name	Category Name	Price	Unit	View	Edit	Delete	Purchase Summary
Mishi Kobe Niku	Meat/Poultry	97.00	18 - 500 g pkgs.				
Pate chinois	Meat/Poultry	24.00	24 boxes x 2 pies				
Perth Pasties	Meat/Poultry	32.80	48 pieces				
Thoringer Rostbratwurst	Meat/Poultry	123.79	50 bags x 30 sausgs.				
Tourtiare	Meat/Poultry	7.45	16 pies				

Showing 1 to 5 of 5 entries

Pagination Applied For 10 pages: (Depends on what you select in entries per page dropdown)

The screenshot shows the Django Traders application interface. At the top, there's a navigation bar with 'Home' and 'DjTraders Home' links, the application name 'Django Traders', and the date 'November 4th, 2024'. Below the navigation bar is a search section titled 'Search Products By:' with input fields for 'Product Name', 'Price Comparison' (a dropdown set to 'Select'), 'Price' (with a placeholder 'Enter price'), and 'Category' (a dropdown). There are 'Search' and 'Reset' buttons, and an 'Add Product' button. Below the search section is a table of products. The table has columns: 'Product Name', 'Category Name', 'Price', 'Unit', 'View', 'Edit', 'Delete', and 'Purchase Summary'. The table displays 10 products, including 'Aniseed Syrup', 'Boston Crab Meat', 'Camembert Pierrot', 'Carnarvon Tigers', 'Chais', 'Chai Tea Latte', 'Chang', 'Chartreuse verte', 'Chef Antons Cajun Seasoning', and 'Chef Antons Gumbo Mix'. At the bottom of the table, it says 'Showing 1 to 10 of 77 entries' and a pagination control showing '1' as the current page.

Filter the list view data with Product name, Category Name, Price and Unit.

The screenshot shows the Django Traders application interface with the search filters applied. The 'Product Name' field is empty, 'Price Comparison' is 'Select', 'Price' is 'Enter price', and 'Category' is set to 'Condiments'. The 'Search' button is highlighted. The table below shows 12 products, all of which are in the 'Condiments' category. The products listed are: 'Aniseed Syrup', 'Chef Antons Cajun Seasoning', 'Chef Antons Gumbo Mix', 'Genen Shouyu', 'Grandmas Boysenberry Spread', 'Gula Malacca', 'Louisiana Fiery Hot Pepper Sauce', 'Louisiana Hot Spiced Okra', 'Northwoods Cranberry Sauce', 'Original Frankfurter grüne Soae', 'Sirop d'arable', and 'Veggie-spread'. At the bottom of the table, it says 'Showing 1 to 12 of 12 entries (filtered from 77 total entries)' and a pagination control showing '1' as the current page.

Part B: Products Details View:

This view contains product information and customers who have bought this product. A link will navigate to the details view of the customer who has bought the product.

The screenshot shows the 'Product Information' for 'Aniseed Syrup' on the Django Traders website. The product details include: Product Name: Aniseed Syrup, Price: 10.00, Category: Condiments, and Unit: 12 - 550 ml bottles. Below this, a list of customers who have purchased the product is displayed, each with a link to their customer details page.

Customer ID	Customer Name	Contact Name	City	Country	Link
1. Customer ID: 5	Berglunds snabbkoop	Christina Berglund	Lulea	Sweden	Link
2. Customer ID: 10	Bottom-Dollar Marketse	Elizabeth Lincoln	Tsawassen	Canada	Link
3. Customer ID: 11	Bs Beverages	Victoria Ashworth	London	UK	Link
4. Customer ID: 39	Koniglich Essen	Philip Cramer	Brandenburg	Germany	Link
5. Customer ID: 47	LINO-Delicatessen	Felipe Izquierdo	I. de Margarita	Venezuela	Link
6. Customer ID: 63	QUICK-Stop	Horst Kloss	Cunewalde	Germany	Link
7. Customer ID: 65	Rattlesnake Canyon Grocery	Paula Wilson	Albuquerque	USA	Link
8. Customer ID: 83	Vaffeljernet	Palle Ibsen	Arhus	Denmark	Link

After clicking on the link, the list of customers who has bought the product will be displayed.

The screenshot shows the 'Customer Information' for 'Berglunds snabbkoop' on the Django Traders website. The customer details include: Customer Name: Berglunds snabbkoop, Contact Name: Christina Berglund, Address: Bergsuvägen 8, City: Lulea, Postal Code: S-958 22, Country: Sweden, and Order Placed: 18. Below this, a list of orders placed by the customer is displayed, each with a table showing the items, quantities, prices, and totals.

Order ID	Order Date	Name	Qty	Price	Total
1. Order ID: 10278 placed on Aug. 12, 2021					
		Gula Malacca	16	\$19.45	\$311.20
		Raclette Courdavault	15	\$55.00	\$825.00
		Veggie-spread	8	\$43.90	\$351.20
		Order Total			\$1487.40
2. Order ID: 10280 placed on Aug. 14, 2021					
		Guarani Fantastica	12	\$4.50	\$54.00
		Pate chinois	20	\$24.00	\$480.00
		Rhenbreu Klosterbier	30	\$7.75	\$232.50
		Order Total			\$766.50
3. Order ID: 10384 placed on Dec. 16, 2021					
		Sir Rodney's Marmalade	28	\$81.00	\$2268.00
		Camembert Pierrot	15	\$34.00	\$510.00
		Order Total			\$2778.00
4. Order ID: 10444 placed on Feb. 12, 2022					
		Gumber Gummibierchen	15	\$31.23	\$468.45
		Steeleye Stout	8	\$18.00	\$144.00
		Jacks New England Clam Chowder	30	\$29.65	\$889.50
		Order Total			\$901.95
5. Order ID: 10445 placed on Feb. 13, 2022					
		Charbreuse verte	6	\$18.00	\$108.00

Part C: Create and Update:

Create form for Product: On the products list, if user click on the 'Add Product' button then it will navigate to the add customer form.

The screenshot shows a web browser window with the URL `127.0.0.1:8000/DjTraders/Products/new`. The page title is "Django Traders" and the date is "November 4th, 2024". The main heading is "Add Product Form". The form contains the following fields:

- Product name:
- Category*:
- Unit:
- Price*:

At the bottom right, there are two buttons: "Save" (with a green checkmark icon) and "Cancel" (with a red X icon). At the bottom left, there is a "View Product List" button. The footer shows the logo of the University of Mumbai and the text "ISM 672".

Validations on create Product form:

The screenshot shows the same "Add Product Form" page, but with validation errors. The fields are filled with the following values:

- Product name: 3445435
- Category*: -----
- Unit:
- Price*: -5

Red error messages are displayed below each field:

- Product name: Product name should not be numeric.
- Unit: Unit cannot be empty.
- Price: Product Price is never negative.

A pink box at the bottom summarizes the errors:

- Product name: Product name should not be numeric.
- Unit: Unit cannot be empty.
- Price: Product Price is never negative.

The "Save" and "Cancel" buttons are still present at the bottom right, and the "View Product List" button is at the bottom left.

The save and cancel buttons are for saving the product form with accepting all validations by clicking on the save button and if user click on cancel button, then it will navigate to the product list view page. Also, the 'View Product List' button will navigate to the customer list view page.

The screenshot shows the 'Add Product Form' in the Django Traders application. The form is set against a light blue background. It includes the following fields and elements:

- Product name:** A text input field containing the value '45355456'.
- Category*:** A dropdown menu with a downward arrow, currently showing '-----'.
- Unit:** A text input field with a validation error message: 'Please select an item in the list.' displayed above it.
- Price*:** A text input field containing the value '-6'.
- Buttons:** At the bottom right, there are 'Save' and 'Cancel' buttons. At the bottom left, there is a 'View Product List' button.
- Footer:** The footer contains the Django Traders logo and the text 'ISM 672'.

Update Product Form:

The screenshot shows the 'Edit Product Form' in the Django Traders application. The form is set against a light blue background. It includes the following fields and elements:

- Product name:** A text input field containing the value 'Aniseed Syrup'.
- Category*:** A dropdown menu with a downward arrow, currently showing 'Condiments'.
- Unit:** A text input field containing the value '12 - 550 ml bottles'.
- Price*:** A text input field containing the value '10.00'.
- Buttons:** At the bottom right, there are 'Save' and 'Cancel' buttons. At the bottom left, there is a 'View Product List' button.
- Footer:** The footer contains the Django Traders logo and the text 'ISM 672'.

Below 2 entries are successfully saved in database using create product form and modified by using update (Edit) product form.

The screenshot shows the pgAdmin 4 interface. The left pane displays the Object Explorer with the 'products' table selected. The right pane shows a SQL query and its results.

Query:

```
1 SELECT * FROM public.products
2 ORDER BY product_id ASC
```

Data Output:

product_id [PK] integer	product_name character varying (255)	category_id integer	unit character varying (255)	price numeric (10,2)
57	Escargots de Bourgogne	8	24 pieces	13.25
58	Raclette Courdavault	4	5 kg pkg.	55.00
59	Camembert Pierrot	4	15 - 300 g rounds	34.00
60	Sirup d'arable	2	24 - 500 ml bottles	28.50
61	Tarte au sucre	3	48 pies	49.30
62	Veggie-spread	2	15 - 625 g jars	43.90
63	Wimmers gute Semmelknadel	5	20 bags x 4 pieces	33.25
64	Louisiana Fiery Hot Pepper Sauce	2	32 - 8 oz bottles	21.05
65	Louisiana Hot Spiced Okra	2	24 - 8 oz jars	17.00
66	Laughing Lumberjack Lager	1	24 - 12 oz bottles	14.00
67	Scottish Longbreads	3	10 boxes x 8 pieces	12.50
68	Gudbrandsdalsost	4	10 kg pkg.	36.00
69	Outback Lager	1	24 - 355 ml bottles	15.00
70	Flotemysost	4	10 - 500 g pkgs.	21.50
71	Mozzarella di Giovanni	4	24 - 200 g pkgs.	34.80
72	Longlife Tofu	7	5 kg pkg.	10.00
73	Rhenbreu Klosterbier	1	24 - 0.5 l bottles	7.75
74	Lakkalikeeri	1	500 ml	18.00
75	Original Frankfurter grüne Soße	2	12 boxes	13.00
76	Chai Tea Latte	1	20	60.00
77	Creamy Milk Shake	1	4	48.00

Extra Credit: 2

If user click on Purchase Summary on products list view page, the product information will be displayed with which customers have bought that product, at any time. It also displayed a list of customers and how many times (number of orders) and how much (total quantity) the customer has bought for a product.

The screenshot displays a web browser window with the URL `127.0.0.1:8000/DjTraders/ProductPurchaseSummary/3`. The page header includes navigation links for 'Home' and 'DjTraders Home', the site name 'Django Traders', and the date 'November 4th, 2024'. The main content area is titled 'Product Name: Aniseed Syrup' and is divided into two sections: 'Product Information' and 'Customer Purchase Details:'. The 'Product Information' section lists the product name, category, price, and unit. The 'Customer Purchase Details' section contains a table with columns for Customer, Number of Orders, and Total Quantity, listing various customers and their purchase statistics. A 'View Product List' button is located at the bottom left of the product information section. The footer of the page shows a logo and the text 'ISM 672'.

Product Name: Aniseed Syrup

Product Information

Product : Aniseed Syrup
Category : Condiments
Price : 10.00
Unit : 12 - 550 ml bottles

[View Product List](#)

Customer Purchase Details:

Customer	Number of Orders	Total Quantity
Berglunds snabbkoop	1	30
Bottom-Dollar Marketse	1	20
Bs Beverages	1	30
Koniglich Essen	1	49
LINO-Delicateses	2	70
QUICK-Stop	1	60
Rattlesnake Canyon Grocery	1	4
Vaffeljernet	1	14

ISM 672