ONLINE ORDERING SYSTEM

Aaron Burton
RELATIONAL DATABASE CDCFE

Table of Contents

Title	3
HLD	3
LLD	3
FIELDS WITH LLDS	3-6
FIELDS	6-8
NORMALIZATIONS	8-11
Normalization 1st	8-9
Normalization 2nd	9-10
Normalization 3rd	10-11
ERD	12
TABLES	13-14
POPULATED TABLES	15
FORM DESIGN	16-18
SCREENSHOTS OF FORMS	19-21
TEST PLAN	22
SQL FOR EACH LLD	23-24
CONCLUSION	24
BIBLIOGRAPHY	24

Title: Online Ordering Database

HLD:

- Track Online Orders
- View Order Documents

LLD:

- 1. Create new users and handhelds
- **2.** Update users and handhelds
- **3.** Update Orders
- 4. Update Sales
- **5.** Show Sale Items Isle
- **6.** Delete old users and handhelds
- 7. Delete Stock no longer on sale
- 8. Display order's status, due date, and delivery driver
- 9. Organise orders by name, date, and quantity
- **10.** View Old orders

Fields for each LLD:

- 1. Create new users and handhelds
 - UserFirstName
 - UserLastName
 - UserStreet
 - UserCity
 - UserCounty
 - UserPhone
 - UserEmail
 - UserPassword
 - UserEmployeeNumber
 - HandheldNumber
 - HandheldCode
- 2. Update users and handhelds
 - UserFirstName
 - UserLastName

- UserStreet
- UserCity
- UserCounty
- UserPhone
- UserEmail
- UserPassword
- UserEmployeeNumber
- HandheldNumber
- HandheldCode

3. Update Orders

- OrderNumber
- DeliveryDate
- OrderQuantity
- OrderStatus
- DeliveryDriver
- CustomerID

4. Update Sales

- ItemBarcode
- IsleName
- ItemName
- SaleStartDate
- SaleEndDate

5. Show Sale Items Isle

- ItemBarcode
- IsleName
- ItemName
- SaleStartDate
- SaleEndDate

6. Delete old users and handhelds

- UserFirstName
- UserLastName
- UserStreet
- UserCity
- UserCounty

- UserPhone
- UserEmail
- UserPassword
- UserEmployeeNumber
- HandheldNumber
- HandheldCode

7. Delete Stock no longer on sale

- ItemBarcode
- IsleName
- ItemName
- SaleStartDate
- SaleEndDate

8. Display order's status, due date, and delivery driver

- OrderNumber
- DeliveryDate
- OrderQuantity
- OrderStatus
- DeliveryDriver
- CustomerID

9. Organise orders by name, date and quantity

- OrderNumber
- DeliveryDate
- OrderQuantity
- OrderStatus
- DeliveryDriver
- CustomerID
- CustomerStreet
- CustomerCity
- CustomerCounty
- CustomerFirstName
- CustomerLastName

10. View Old orders

- OrderNumber
- DeliveryDate
- OrderQuantity
- OrderStatus
- DeliveryDriver
- CustomerID

Fields:

- UserFirstName
- UserLastName
- UserStreet
- UserCity
- UserCounty
- UserPhone
- UserEmail
- UserPassword
- UserEmployeeNumber
- HandheldNumber
- HandheldCode
- UserFirstName
- UserLastName
- UserStreet
- UserCity
- UserCounty
- UserPhone
- UserEmail
- UserPassword
- UserEmployeeNumber
- HandheldNumber
- HandheldCode
- OrderNumber
- DeliveryDate
- OrderQuantity

- OrderStatus
- DeliveryDriver
- CustomerID
- ItemBarcode
- IsleName
- ItemName
- SaleStartDate
- SaleEndDate
- ItemBarcode
- IsleName
- ItemName
- SaleStartDate
- SaleEndDate
- UserFirstName
- UserLastName
- UserStreet
- UserCity
- UserCounty
- UserPhone
- UserEmail
- UserPassword
- UserEmployeeNumber
- HandheldNumber
- HandheldCode
- ItemBarcode
- IsleName
- ItemName
- SaleStartDate
- SaleEndDate
- OrderNumber
- DeliveryDate
- OrderQuantity
- OrderStatus
- DeliveryDriver

- CustomerID
- OrderNumber
- DeliveryDate
- OrderQuantity
- OrderStatus
- DeliveryDriver
- CustomerID
- CustomerStreet
- CustomerCity
- CustomerCounty
- CustomerFirstName
- CustomerLastName
- OrderNumber
- DeliveryDate
- OrderQuantity
- OrderStatus
- DeliveryDriver
- CustomerID

Normalization's:

1. Normalization

Remove all duplicated fields, Order the fields in alphabetical

- CustomerCity
- CustomerCounty
- CustomerFirstName
- CustomerID
- CustomerLastName
- CustomerStreet
- DeliveryDate
- DeliveryDriver
- HandheldCode
- HandheldNumber
- IsleName

- ItemBarcode
- ItemName
- OrderNumber
- OrderQuantity
- OrderStatus
- SaleEndDate
- SaleStartDate
- UserCity
- UserCounty
- UserEmail
- UserEmployeeNumber
- UserFirstName
- UserLastName
- UserPassword
- UserPhone
- UserStreet

2. Normalization

Separate the fields into groups and add Primary keys

- CustomerID (PK)
- CustomerCity
- CustomerStreet
- CustomerCounty
- CustomerFirstName
- CustomerLastName
- CustomerNumber
- OrderNumber
- HandheldCode(PK)
- HandheldNumber
- UserEmployeeNumber

- ItemBarcode(PK)
- IsleName
- SaleItems
- SaleStartDate
- SaleEndDate
- OrderNumber(PK)
- DeliveryDate
- OrderQuantity
- OrderStatus
- DeliveryDriver
- CustomerID
- UserEmployeeNumber(PK)
- UserStreet
- UserCity
- UserCounty
- UserEmail
- UserPassword
- UserFirstName
- UserLastName
- UserPhone

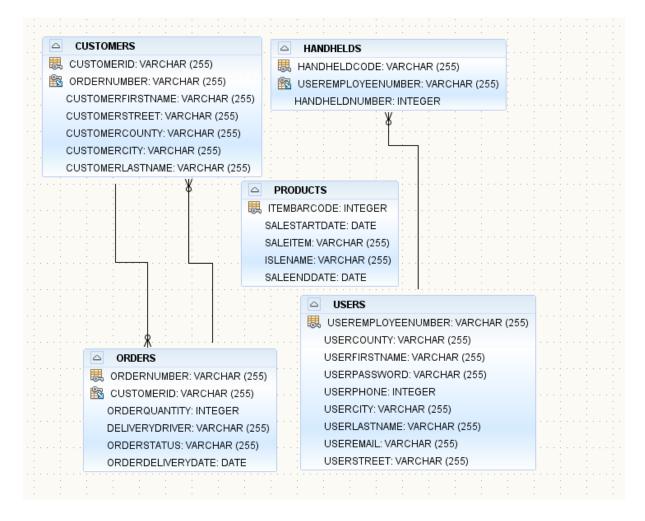
3. Normalization

Add Foreign Keys and link tables together

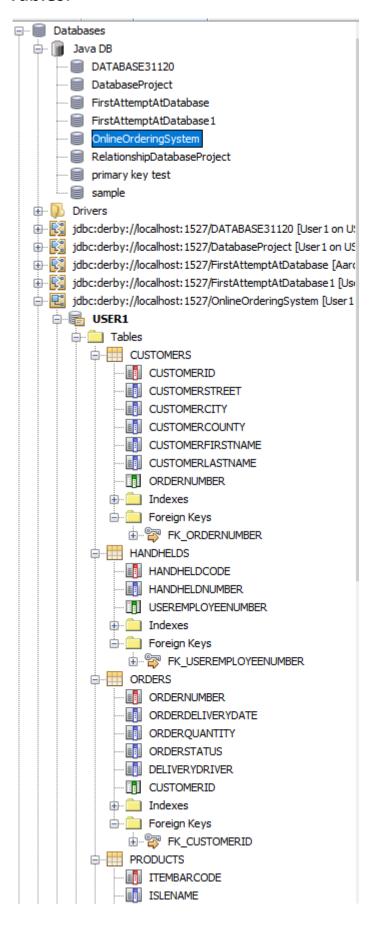
- CustomerID (PK)
- CustomerCity
- CustomerStreet
- CustomerCounty
- CustomerFirstName
- CustomerLastName
- CustomerNumber
- OrderNumber(FK)
- HandheldCode(PK)
- HandheldNumber

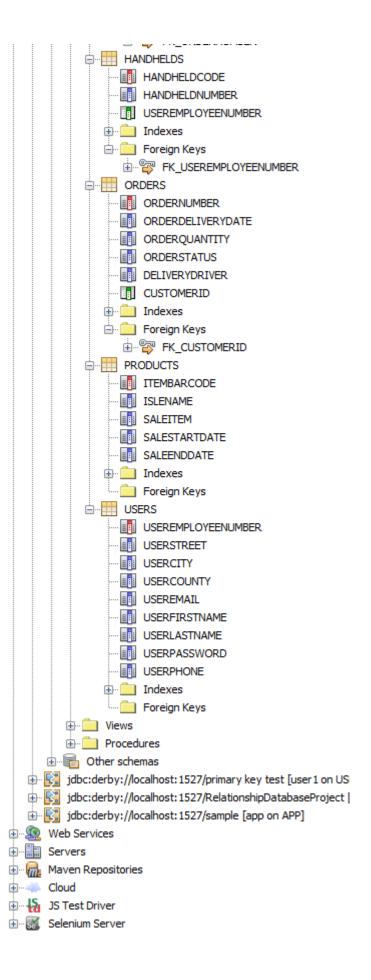
- UserEmployeeNumber(FK)
- ItemBarcode(PK)
- IsleName
- SaleItems
- SaleStartDate
- SaleEndDate
- OrderNumber(PK)
- DeliveryDate
- OrderQuantity
- OrderStatus
- DeliveryDriver
- CustomerID(FK)
- UserEmployeeNumber(PK)
- UserStreet
- UserCity
- UserCounty
- UserEmail
- UserPassword
- UserFirstName
- UserLastName
- UserPhone

ERD:



Tables:





Populated Tables:

1. Customer Table

#	CUSTOMERID	CUSTOMERSTREET	CUSTOMERCITY	CUSTOMERCOUNTY	CUSTOMERFIRSTNAME	CUSTOMERLASTNAME	ORDERNUMBER
1	DB102	Chapel	Balbriggan	Dublin	David	Cull	10102
2	DB111	Chapel	Balbriggan	Dublin	Jerry	Smith	12010
3	DB232	Foxgrove	Skerries	Dublin	Carson	Wil	20102
4	DB453	Oakleigh	Balbriggan	Dublin	Peter	McCain	20344
5	M234	Beaufort	Navan	Meath	Eve	White	20345
6	M231	Eastham	Bettystown	Meath	Larry	Burke	32345
7	DB674	Martello	Balbriggan	Dublin	Mary	Murphy	19123
8	M857	The Green	Laytown	Meath	Connor	Reily	74777
9	M277	The Grove	Laytown	Meath	John	Coleson	22778
10	DB884	The Run	Coolock	Dublin	Yeun	Lafferty	22997

2. Handheld Table

#	HANDHELDCODE	HANDHELDNUMBER	USEREMPLOYEENUMBER
1	H001	1	60030
2	H002	2	60031
3	H003	3	60033
4	H004	4	60035
5	H005	5	60034
6	H006	6	60037
7	H007	7	60036
8	H008	8	60038
9	H009	9	60039
10	H010	10	60040

3. Orders Table

#	ORDERNUMBER	ORDERDELIVERYDATE	ORDERQUANTITY	ORDERSTATUS	DELIVERYDRIVER	CUSTOMERID
1	10102	2020-11-24	20	Delivered	Michael	DB102
2	12010	2020-11-24	23	Delivered	John	DB111
3	20102	2020-11-24	56	Delivered	John	DB232
4	20344	2020-11-24	45	Delivered	Michael	DB453
5	20345	2020-11-24	34	Delivered	Michael	M234
6	32345	2020-11-24	67	Processing	John	M231
7	19123	2020-11-24	45	Processing	Alan	DB674
В	74777	2020-11-24	21	Processing	Alan	M857
9	22778	2020-11-24	12	Ready	Michael	M277
10	22997	2020-11-24	35	Ready	John	DB884

4. Users Table

#	USEREMPLOYEENUMBER	USERSTREET	USERCITY	USERCOUNTY	USEREMAIL	USERFIRSTNAME	USERLASTNAME
1	60030	The Green	Laytown	Meath	20nialhorris@moriarity.com	Nial	Horris
2	60031	The Glen	Laytown	Meath	20adamsandler@moriarity.com	Adam	Sandler
3	60033	BeachPark Avenue	Coolock	Dublin	20donaldTrump@moriarity.com	Donald	Trump
4	60035	Harry Renolds street	Balbriggan	Dublin	20tomhollad@moriarity.com	Tom	Hollad
5	60034	Westbrooke Avenue	Balbriggan	Dublin	20tobymiguer@moriarity.com	Toby	Miguer
6	60037	Moylargh	Balbriggan	Dublin	20andrewgarfield@moriarity.com	Andrew	Gardfield
7	60036	Castlemill Link Road	Balbriggan	Dublin	20tonystank@moriarity.com	Tony	Stank
8	60038	Taylor Hill Green	Balbriggan	Dublin	20leonardodecaprio@moriarity.com	Leonardo	Decaprio
9	60039	Barons hall grove	Balbriggan	Dublin	20robertdowneyjr@moriarity.com	Robert	Downey Jr
10	60040	The Grove	Balbriggan	Dublin	20eltonjohn@moriarity.com	Elton	John
11	60032	Montrose	Beaumont	Dublin	20billdinton@moriarity.com	Bill	Clinton
#	USERCITY	USERCOUNTY	USEREMAIL	USERFIRSTNAME	USERLASTNAME	USERPASSWORD	USERPHONE
1	Laytown	Meath	20nialhorris@moriarity.com	Nial	Horris	12345	87396454
2	Laytown	Meath	20adamsandler@moriarity.c	com Adam	Sandler	23456	87392354
3	Coolock	Dublin	20donaldTrump@moriarity.c	com Donald	Trump	34567	87396242
4	Balbriggan	Dublin	20tomhollad@moriarity.com	Tom Tom	Hollad	22222	87396111
5	Balbriggan	Dublin	20tobymiguer@moriarity.co	m Toby	Miguer	33333	87392324
6	Balbriggan	Dublin	20andrewgarfield@moriarity	y.com Andrew	Gardfield	44444	84596454
7	Balbriggan	Dublin	20tonystank@moriarity.com	n Tony	Stank	55555	87394444
8	Balbriggan	Dublin	20leonardodecaprio@moriar	rity.com Leonardo	Decaprio	66666	87388854
9	Balbriggan	Dublin	20robertdowneyjr@moriarit	ty.com Robert	Downey Jr	77777	87396000
10	Balbriggan	Dublin	20eltonjohn@moriarity.com	Elton	John	88888	87396444
11	Beaumont	Dublin	20bilclinton@moriarity.com	Bil	Clinton	11111	87322245

5. Sales Table

#	ITEMBARCODE	ISLENAME	SALEITEM	SALESTARTDATE	SALEENDDATE
1	102931	Peas And Beans	Heinz 4PK	2020-12-01	2020-12-03
2	102875	Peas And Beans	Batchelors 4PK	2020-12-01	2020-12-03
3	190932	Peas And Beans	SV Kidney Beans 3PK	2020-12-01	2020-12-03
4	243495	Peas And Beans	SV Marrowfat Peas 3PK	2020-12-01	2020-12-03
5	235854	Foreign Foods	SV Penne 1KG	2020-12-04	2020-12-07
6	124875	Foreign Foods	SV Chopped Tomatoes 420G	2020-12-04	2020-12-07
7	358303	Foreign Foods	Pot Noodles King 600G	2020-12-04	2020-12-07
8	135493	Coffee and Biscuits	Barrys 80Bag	2020-12-08	2020-12-10
9	157968	Coffee and Biscuits	Kenco Gold Blend 200G	2020-12-08	2020-12-10
10	340948	Coffee and Biscuits	Jaffa Cakes 20PK	2020-12-08	2020-12-10

Form Design:

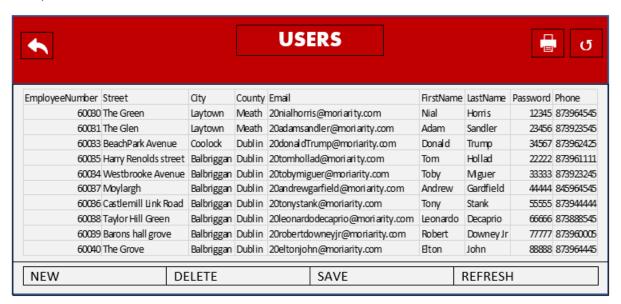
Main Interface:

Completes LLD'S: 7, 10



User Form:

Completes LLD'S: 1, 2, 5



Customer Form:

Completes LLD: 9

•	CUSTOMERS							
CustomerID	Street	City	County	у	First Name	Last	Name	OrderNumber
DB102	Chapel Ba		Dublin	1	David	Cull		10102
DB111	111 Chapel		Dublin	1	Jerry	Smi	th	12010
DB232	Poxgrove Skerries		Dublin	1	Carson	Will		20102
DB453	OB453 Oakleigh		Dublin	1	Peter	Mc	Cain	20344
M234 Beaufort Navan		Navan	Meath	1	Eve	Wh	te	20345
M231	Eastham	Bettystown	Meath	1	Larry	Bur	ke	32345
DB674 Martello Balbriggan		Dublin		Mary	Mu	phy	19123	
NEW DELETE		DELETE		SAVE			REFRE	SH

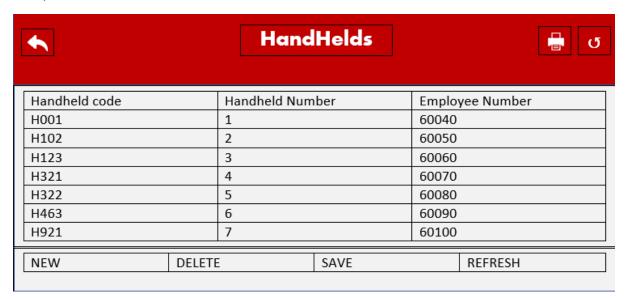
Product Form:

Completes LLD'S: 4, 6



Handheld Form:

Completes LLD'S: 1, 2, 5



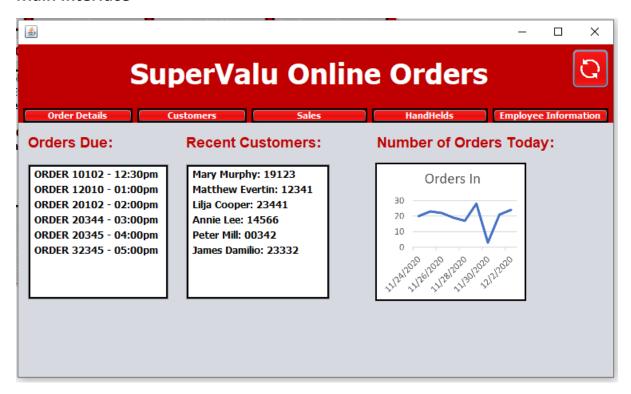
Order Form:

Completes LLD'S: 3, 7, 8, 9, 10

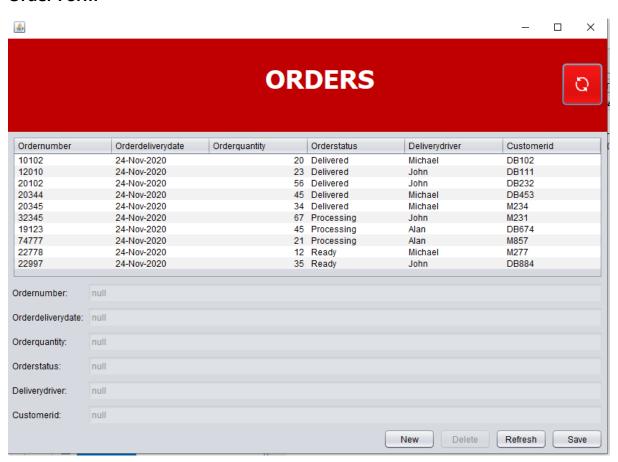


Screenshots Of Forms Made:

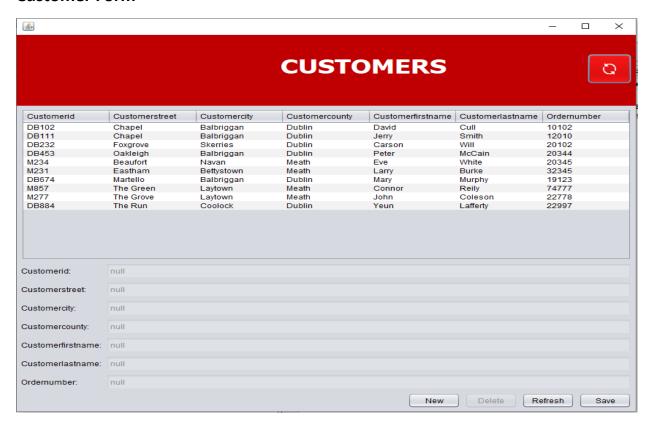
Main Interface



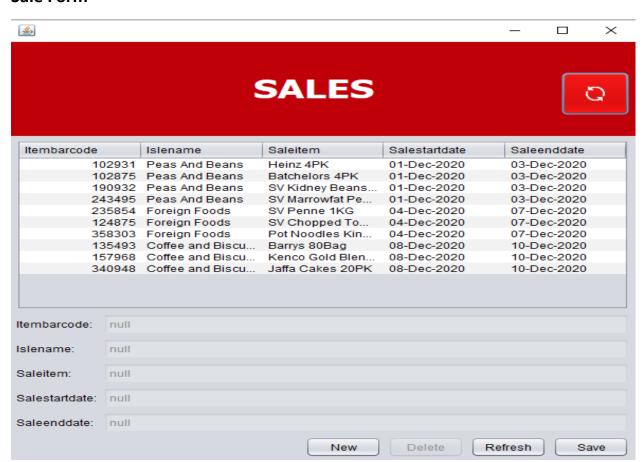
Order Form



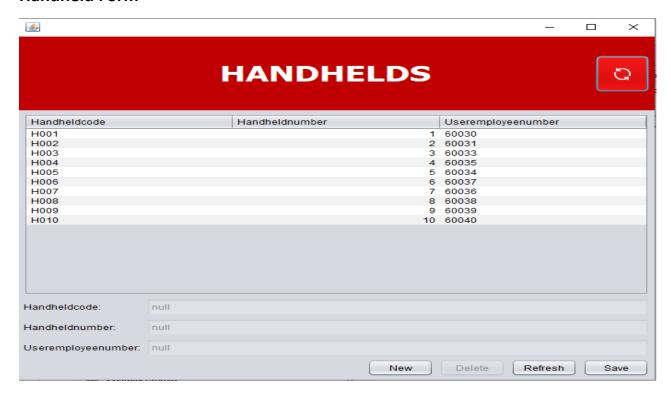
Customer Form



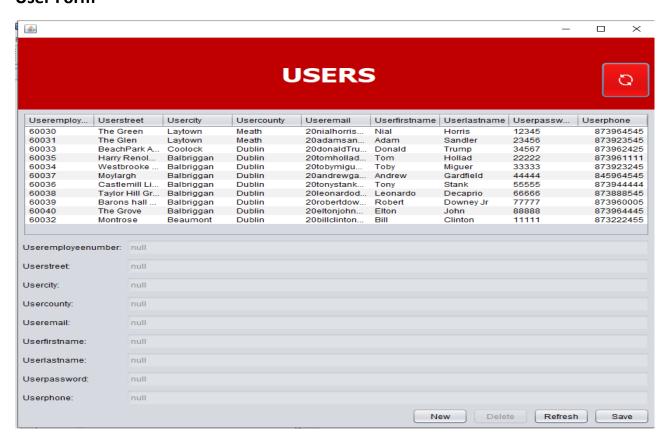
Sale Form



Handheld Form



User Form



Test Plan

Nomber of Test CluserTable1 TCUserTable2 TCUserTable3 TCUserTable4 TCUserTable4 TCUserTable5 TCUserTable5 TCUserTable6 TCUserTable6 TCUserTable6 TCUserTable6 TCUserTable6 TCUserTable6 TCUserTable8	UserTable Form					
TCUSerTable2 TCUSerTable3 TCUSerTable4 TCUSerTable5 TCUSerTable5 TCUSerTable5 TCUSerTable5 TCUSerTable5 TCUSerTable5 TCUSerTable6 TCUSerTable6 TCUSerTable6 TCUSerTable6 TCUSerTable6 TCUSerTable6 TCUSerTable6 TCUSERTABLE5 TC	Number of Test					Corrective Action Taken
TCHARTABUS TOUR FLOWER STATES AND THE LOGGE PRIVATE AND THE COLOR TOUR STATES AND THE PRIVATE AND THE STATES AND THE PRIVATE	TCIIT-bl-1					
See fill be gage enfemiles when the control work is added to methor some state is added to see the control work in additional process to added to the control work in the control of the c	rcoserrablei	the database		the form	the form	
TOUSETIBLES TOUSE	TCUserTable?	See if the page refreshes when the		Page refreshes and	Page Opens again	
TUDISTABLES User studied only the pile to entire a market for first areas under for first areas under for first areas under for first areas and six name. User studied only the pile to entire a market for first areas and six name on the number of the time of the pile to entire a market for first areas and six name. User studied only the pile to entire a market for first areas and six name on the number of the time of the pile to entire a market for first areas and six name. User studied only the pile to the studied of the pile and the pile to t	reoscirablez		5			
Content raises						
Deer should only be able to enter a lander normal part of the control of the co	TCUserTable3	nambers for osciempio (certainse.	aser Employeer turnser			
Annual to the number or unknown and last name unknown and last name unknown and last name unknown and set to see years to the contribution of an analysis in the page of the contribution						1 1
According to provide the provided in the provided interpretation in t						
Institution is provided to the color of the control of the color of th	TCUserTable4		and last name			
Now the Content Security of the Security o		1 -				
Now the Content Security of the Security o						
Content Fable Add a new reardined to the table Celebrate handled from the table		Description of what is Being Tested	How the Test is Conducted	Expected Results	Actual Results	Corrective Action Taken
Delete a handheld from the table of the case of the common						Corrective Action Taken
Claim Clai	TCHandHeidsTable1					
See if a letter on be inputted instead in put a number when adding is not marked in the hundreleth without the form with	TOU	Delete a handheld from the table				
See If a letter on be injusted instead of of a number in the handheld in the form of a number in the handheld in the handheld in the form of a number in the handheld in the form of a number in the handheld in the form of a number in the handheld in the form of a number in the handheld in the form of a number in the handheld in the form of a number in the handheld in the form of a number in the handheld in the form of except the laps. It is added to the handheld in the form of the form of except the laps. It is added to the handheld in the form of the handheld in the form of t	1 CHandHeids I abie2		delet button			
TCOrderTable2 TCOrderTable3 TCOrderTable3 TCOrderTable4 TCOrderTable4 TCOrderTable5 TCOrderTable5 TCOrderTable5 TCOrderTable6 TCOrderTable6 TCOrderTable6 TCOrderTable8 TC		See if a letter cn be inputted instead	Input a number when adding a			There should be code
TCHandrelofs falses Activated for fact Conderfables Be able to add a new order Add a new order and cilck saw from Corderfables Be able to delete an order Be able to refresh the page TCOrderfables TE saw button saves the data Input new information and select Input new information and input new information						1 1
Order Form TCOrderTable2 TCOrderTable3 TCOrderTable3 TEXT Security Se	TCHandHeldsTable3	HandHeldNumber	HandHeldNumber	not except the input		
Number of Test CorderTable2 TCOrderTable3 Be able to delete an order Test all alter can be placed in a int value TCOrderTable3 TCOrderTable4 TCOrderTable3 TCOrderTable5 TCOrderTable4 TCOrderTable6 Test if a letter can be placed in a int value TCOrderTable7 TCOrderTable8 TCOrderTable8 TCOrderTable8 TCOrderTable8 TCOrderTable8 TCOrderTable9 TEST is a letter can be placed in a int value Value TCOrderTable9						unui ali the inputs are correct
Nomber of Test Description of what is Being Tested Add a new order Add a new o						
TCOrderTable2 Be able to add a new order TCOrderTable3 Be able to defete an order Be able to refresh the page Be able to refresh the page TCOrderTable3 TCOrderTable4 TCOrderTable5 TCOrderTable5 TCOrderTable6 TCOrderTable6 TCOrderTable7 TCOrderTable7 TCOrderTable8 TCOrderTable8 TCOrderTable8 TCOrderTable8 TCOrderTable8 TCOrderTable8 TCOrderTable8 TCOrderTable8 TCOrderTable9 TCORDETATE TCORDETABLE9 TCORDETATE TCORDETABLE9 TC		Description of the late of the	Hamilton Task is Co. 1 . 1	Everated 5	Astro-I Day II	Commenting Act. T. I
TCOrderTable2 Be able to delete an order TCOrderTable3 Be able to refresh the page Pressing the refresh button believe deleted delete						Corrective Action Taken
TCOrderTable2 Reable to delete an order and select deleted de	TCOrderTable1	Se able to add a new order	, and a new order and click save			
CorderTable3 Be able to refresh the page Pressing the refresh button The page will response with the updated information Test if a letter can be placed in a int value val	TCOrderTable2	Be able to delete an order	Select an order and select	The Order will be	The order was	
TCOrderTable3 Test if a letter can be placed in a int value TCOrderTable4 TCOrderTable5 The save button saves the data value TCOrderTable5 The save button saves the data versus the data versus the save button to the process the refresh button value TCOrderTable5 TCOrderTable6 TCOrderTable6 TCOrderTable7 The save button saves the data versus the data versus the save button, then refresh the page value value TCOrderTable7 TCOrderTable8 TORDERTABLE8 TORDERTABLE8 TORDERTABLE8 TORDERTABLE8 TORDERTABLE8 TORDERTABLE8 TORDERTABLE8 TCORDERTABLE8 TORDERTABLE8 TORDERTABLE	reorderrablez					
TCOrderFable3 Test if a letter can be placed in a intering "a" into the quantity value TCOrderFable4 Test if a letter can be placed in a intering "a" into the quantity value TCOrderFable5 The save button saves the data Input new information and press the save button, then press the save button and press the save button and press the save button and press the save button, then press the save button and press the save button and press the refresh button and the information and press the refresh button and the information and press the save button and the information and press the refresh button and the information and press the save button and the information and the information and the information and the information and press the save button and the information and		Be able to refresh the page	Pressing the retresh button			
TCOrderTable4 value	TCOrderTable3					
A continue of the continue o						
TCOrderTable5 The save button saves the data press the save button, then press the save button, then press the save button, then press the formation and press the formation will still be displayed				_		
TCOrderTable5 The save button saves the data TCOrderTable5 The save button saves the data Input new information and press the save button, then press the refresh button Whomber of Test TCCustomerTable1 Be able to add a new customer TCCustomerTable2 Be able to delete an customer TCCustomerTable3 Be able to save inputted data TCCustomerTable4 Be able to save inputted data TCCustomerTable5 Be able to save inputted data TCCustomerTable6 TCCustomerTable7 Be able to save inputted data TCCustomerTable8 TCCustomerTable8 Be able to save inputted data TCCustomerTable8 Be able to save inputted data TCCustomerTable8 TCCustomerTable8 Be able to save inputted data TCCustomerTable8 TCCustomerTable8 TCCustomerTable8 Be able to save inputted data TCCustomerTable8 Be able to refresh the page Develocits Form TCCustomerTable8 Be able to refresh the page Develocits Form TCCustomerTable8 Be able to add new product on sale TCCustomerTable8 Be able to add new product on sale TCCustomerTable8 Be able to add new product on sale TCCustomerTable8 Be able to refresh the page Develocits Form TCCustomerTable8 Be able to add new product on sale TCCustomerTable8 Be able to add new product on sale TCCustomerTable8 Be able to add new product on sale TCCustomerTa	TCOrderTable4	value	value		input	
Counter Form Formation F						mpacs into the variables
Description of what is Being Tested How the Test is Conducted Expected Results Actual Results Corrective Action Taken		The save button saves the data				
Nowher of Text	I COrder Lable5					
Be able to add a new customer and click save ave and continued to the form added to the form and	Customer Form	,	press the remest bactori	win sem be displayed	wiii seiii se dispidyed	
TCCustomerTable2 TCCustomerTable2 Be able to delete an customer Select an customer and select delete delete delete deleted delete delete deleted deleted delete delete delete deleted delete deleted delete delete delete deleted delete delete delete delete deleted delete	Number of Test					Corrective Action Taken
Select an customer and select deleted delete	TCCustomerTable1	Be able to add a new customer				
TCCustomerTable3 Be able to refresh the page button press the refresh the page button and refresh the page in pressed. TCCustomerTable4 Be able to save inputted data button and refresh the page button and refresh the page and be updated with the new information to the new information. Products Form Number of Test Description of what is Being Tested Add new product on sale sable to add new products on all button and refresh the page button to sale delete a product on sale delete a product on sale be able to delete a product on sale delete a product and press the fable table added to the table adde	T00 . T.I.I.O	Be able to delete an customer	****			
TCCustomerTablead Be able to save inputted data Input data then press the save button and refresh the page and be updated with the new information in the new information. Products Form Number of Test Description of what is Being Tested Sale be to add new products on sale able to add new products on sale. TCProctuctsTablead Be able to delete a product on sale delete a product and press button and refresh the page button. TCProctuctsTablead Be able to save inputted data input new data and press the save button, then refresh the page button. TCProctuctsTablead Be able to save inputted data input new data and press the save button, then refresh the page button. TCProctuctsTablead Be able to save inputted data input new data and press the save button, then refresh the page button in pressed inputted when asked for start and end date will here suit there will there suit there will there suit there will there suit there will not show will not show in the save button for opening the customer form works TCMalinInterface Condens form works TCMalinInterface Test that the button for opening the Condens form works TCMalinInterface Test that the button for opening the Press the User Button in press the Press the User Form works TCMalinInterface Test that the button for opening the Press the User Form works TCMalinInterface Test that the button for opening the Press the User Button in Opens in Ope	1CCustomer1able2					
TCCustomerTable4 Be able to save inputted data input data then press the save button and refresh the page button and refresh the page in the new information in	TCC:tT-bl-2	Be able to refresh the page	, ,			
Products Form Number of Test TCProctuctsTable4 Be able to save inputted data button and refresh the page button TCProctuctsTable2 TCProctuctsTable3 Be able to delete a product on sale be able to delete a product on sale be able to refresh the page button TCProctuctsTable3 Be able to refresh the page button Be able to refresh the page button TCProctuctsTable4 TCProctuctsTable4 TCProctuctsTable5 Be able to refresh the page button Be able to save inputted data lungut new data and press the save button, then refresh the page button TCProctuctsTable5 TCProctuctsTable6 TCProctuctsTable6 TCProctuctsTable7 TCProctuctsTable8 Be able to refresh the page button TCProctuctsTable8 Be able to refresh the page button TCProctuctsTable8 Be able to refresh the page button TCProctuctsTable8 TCProctuctsTable8 Toput new data and press the save button, then refresh the page button TCProctuctsTable8 Test that a correct date can only be inputted when asked for start and end date Test that a correct date can only be inputted when asked for start and end date TCProctuctsTable8 TCMainInterface1 TCMainInterface2 TCMainInterface2 TCMainInterface3 TCMainInterface5 TCMainInterface5 TCMainInterface5 TCMainInterface6 TCMainInterface6 Test that the button for opening the voorks Test	rccustomer rables		button	open		
Products Form Number of Test Description of what is Being Tested Be able to add new products on sale TCProctuctsTable1 See able to delete a product on sale TCProctuctsTable2 TCProctuctsTable3 TCProctuctsTable3 TCProctuctsTable4 Be able to refresh the page button TCProctuctsTable3 TCProctuctsTable4 Be able to refresh the page button TCProctuctsTable5 Be able to save inputted data TCProctuctsTable4 TCProctuctsTable5 TCProctuctsTable6 Be able to save inputted data TCProctuctsTable6 TCProctuctsTable7 TCProctuctsTable8 TCProctuctsTable8 TCProctuctsTable8 TCProctuctsTable9 TCProctuc		Be able to save inputted data	Input data then press the save	The page will refresh		
Number of Test Description of what is Being Tested How the Test is Conducted Expected Results Actual Results Corrective Action Taken	TCCustomerTable4		button and refresh the page			
Number of Test Description of what is Being Tested. TCProctuctsTable1 Be able to add new products on sale Be able to add new product on sale Be able to delete a product on sale Be able to refresh the page TCProctuctsTable2 Be able to refresh the page Be able to refresh the page TCProctuctsTable3 Be able to save inputted data TCProctuctsTable4 TCProctuctsTable4 TEST that a correct date can only be inputted when asked for start and end date TCProctuctsTable5 TCMainInterface2 TCMainInterface3 TCMainInterface5 TCMainInterface5 TCMainInterface5 TCMainInterface6 TEST that the button for opening the User Form works TCMainInterface6 TCSMainInterface6 TCSMainIn	Products Form			the new information	the new information	
TCProctuctsTable1 sale Be able to delete a product on sale delete TCProctuctsTable2 Be able to refresh the page button Be able to save inputted data TCProctuctsTable3 Test that a correct date can only be inputted when asked for start and date Main Interface Number of Test TCMainInterface2 TCMainInterface2 TCMainInterface3 TCMainInterface4 TCMainInterface4 TCMainInterface4 TCMainInterface5 Test that the button for opening the Orders button Test that the button for opening the Products Button Test that the button for opening the Products Button Test that the button for opening the Orders button Test that the button for opening the Products Button Test that the button for opening the Orders button Test that the button for opening the Orders button Test that the button for opening the Orders button Test that the button for opening the Orders Form works TCMainInterface4 Test that the button for opening the Orders Form works TEst that the button for opening the Orders Form works TCMainInterface5 Test that the button for opening the Orders Form works TCMainInterface5 Test that the button for opening the Orders Form works TEST that the button for opening the Orders Form works TEST that the button for opening the Orders Form works TEST that the button for opening the Orders Form works Test that the button for opening the Orders Form works Test that the button for opening the Orders Form works TEST that the button for opening the Orders Form works TEST that the button for opening the Orders Form works Test that the button for opening the Orders Form works Test that the button for opening the Press the Products Button The Products Form opens The Dage will re-open The handheld form opens The page will re-open The page will re-open	Number of Test	Description of what is Being Tested	How the Test is Conducted	Expected Results	Actual Results	Corrective Action Taken
Be able to delete a product on sale delete a product on sale delete TCProctuctsTable2 Be able to refresh the page button Be able to save inputted data TCProctuctsTable3 TCProctuctsTable4 Test that a correct date can only be inputted when asked for start and end date TCMainInterface2 TCMainInterface3 TCMainInterface5 TCMainInterface5 TCMainInterface6 TCMainInterface6 TEst that the button for opening the User Button TCMainInterface5 Test that the handheld button TEst that the refresh button for opening the User Button for opening the TCMainInterface5 TCMainInterface5 TCMainInterface5 TCMainInterface6 TEst that the button for opening the User Button for opening the User Button TCMainInterface6 TEst that the button for opening the User Button TCMainInterface6 TEst that the button for opening the User Button TCMainInterface6 TEst that the button for opening the User Button TCMainInterface6 TEst that the button for opening the User Button TCMainInterface6 TEst that the button for opening the User Button TCMainInterface6 TEst that the button for opening the User Button TCMainInterface6 TEst that the button for opening the User Button TCMainInterface6 TEst that the button for opening the User Button TCMainInterface6 TEst that the button for opening the User Button TCMainInterface6 TEst that the button for opening the User Button TCMainInterface6 TEst that the button for opening the User Button TCMainInterface6 TEst that the refresh button works TEST that the refresh button work			Add new product on sale			
TCProctuctsTable2 Be able to refresh the page Press the refresh the page Dutton	TCProctuctsTable1	sale		be added to the table	added to the table	
TCProctuctsTable2 Be able to refresh the page Press the refresh the page Dutton		Be able to delete a product on sale	Select a product and press	The product will be	The product is	
TCProctuctsTable3 Be able to refresh the page button Be able to save inputted data Input new data and press the save button, then refresh the page with the new data still there Test that a correct date can only be inputted when asked for start and end date Test that be button for opening the Customer form works TCMainInterface2 TCMainInterface4 TCMainInterface4 TCMainInterface5 TCMainInterface5 TCMainInterface6	TCProctuctsTable2	l sales in sales				
TCProctuctsTable3 Be able to save inputted data Input new data and press the save button, then refresh the page TCProctuctsTable4 Test that a correct date can only be inputted when asked for start and end date TCProctuctsTable5 Test that a correct date can only be inputted when asked for start and end date TCProctuctsTable5 Test that be button for opening the Customer form works TCMainInterface2 Test that the button for opening the Orders Form works TCMainInterface4 TCMainInterface5 TEst that the button for opening the User Form works TCMainInterface6 Test that the button for opening the User Form works Test that the button for opening the User Form works TCMainInterface6 Test that the button for opening the User Form works Test that the button for opening the User Form opens Test that the button for opening the User Form opens Test that the button for opening the User Form opens Test that the button for opening the User Form opens The Products Form opens The Products Form opens T			5 11 6 1 11			
TCProctuctsTable4 Be able to save inputted data Input new data and press the save button, then refresh the page Still there Still th	TCProctuetsTable?	Be able to refresh the page				
TCProctuctsTable4 Be able to save inputted data Input new data and press the save button, then refresh the page Test that a correct date can only be inputted when asked for start and end date Test that a correct date can only be inputted when asked for start and end date Main Interface Number of Test Test that the button for opening the customer form works Test that the button for opening the Orders Form works TCMainInterface2 TCMainInterface3 TCMainInterface4 TCMainInterface4 TCMainInterface5 TCMainInterface6 TCMainInterface6 Test that the button for opening the Orders Form works Test that the button for opening the Orders Form works Test that the button for opening the Orders Form works Test that the button for opening the Orders Form works Test that the button for opening the Orders Form works Test that the button for opening the Orders Form works Test that the button for opening the Orders Form works Test that the button for opening the Orders Form works Test that the button for opening the Orders Form works Test that the button for opening the Orders Form works Test that the button for opening the Orders Form works Test that the button for opening the Orders Form works Test that the button for opening the Orders Form works Test that the button for opening the Orders Form works Test that the button for opening the Orders Form works Test that the button for opening the Orders Form works Test that the button for opening the Orders Form works Test that the button for opening the Orders Form works Test that the button for opening the Orders Form works Test that the button for opening the Orders Form opens Test that the button for opening the Orders Form opens Test that the button for opening the Orders Form opens Test that the button for opening the Orders Form opens Test that the button for opening the Orders Form opens Test that the button for opening the Orders Form opens Test that the button for opening the Orders Form opens Test that the button for opening the Orde	remoctuets rable3		Ducton	Open		
TCProctuctsTable5 Test that a correct date can only be inputted when asked for start and end date Main Interface Number of Test Test that the button for opening the Orders Form works TCMainInterface2 Test that the button for opening the User Form works TCMainInterface4 Test that the button for opening the Orders Form works TCMainInterface5 Test that the button for opening the User Form works Test that the button for opening the Orders Form works TCMainInterface6 Test that the button for opening the User Form works Test that the button for opening the User Form works TCMainInterface6 Test that the button for opening the User Form works Test that the button for opening the User Form works Test that the button for opening the User Form works Test that the button for opening the User Form works Test that the button for opening the User Form works Test that the button for opening the User Form works Test that the button for opening the User Form works Test that the button for opening the User Form works Test that the button for opening the User Form works Test that the button for opening the User Form works Test that the button for opening the User Form works Test that the button for opening the User Form works Test that the button for opening the User Form works Test that the button for opening the User Form works Test that the button for opening the User Form works Test that the button for opening the User Form opens Test that the button for opening the User Form opens Test that the button for opening the User Form opens Test that the button for opening the User Form opens Test that the button for opening the User Form opens Test that the button for opening the User Form opens Test that the button for opening the User Form opens The User		Be able to save inputted data			The page is refreshed	
Test that a correct date can only be inputted when asked for start and end date Main Interface Number of Test Test that the button for opening the customer form works TCMainInterface2 TCMainInterface3 Test that the button for opening the Orders Form works TCMainInterface4 Test that the button for opening the Orders Form works TCMainInterface5 TEst that the button for opening the Orders Form works TEst that the button for opening the Orders Form works TEST that the button for opening the Orders Form works TEST that the button for opening the Orders Form works TEST that the button for opening the Orders Form works TEST that the button for opening the Orders Form works TEST that the button for opening the Orders Form works TEST that the button for opening the Orders Form works TEST that the button for opening the Orders Form works TEST that the button for opening the Orders Form works TEST that the button for opening the Orders Form works TEST that the button for opening the Orders Form opens TEST that the button for opening the Orders Form opens TEST that the button for opening the Orders Form opens TEST that the button for opening the Orders Form opens TEST that the button for opening the Orders Form opens TEST that the button for opening the Orders Form opens TEST that the button for opening the Orders Form opens TEST that the button for opening the Orders Form opens TEST that the button for opening the Orders Form opens TEST that the button for opening the Orders Form opens TEST that the button for opening the Orders Form opens TEST that the button for opening the Orders Form opens TEST that the button for opening the Orders Form opens TEST that the button for opening the Orders Form opens TEST that the button for opening the Orders Form opens TEST that the button for opening the Orders Form opens TEST that the button for opening the Orders Form opens TEST that the button for opening the Orders Form opens TEST that the button for opening the Orders Form opens TEST that the button for opening the Orders Form o	TCProctuctsTable4		· ·			
TCProctuctsTable5 inputted when asked for start and end date will not show show show show will not show show show will not show show will not show show show will not show show show show show show show show		Test that a correct date can only be				
Main Interface Number of Test Description of what is Being Tested How the Test is Conducted TCMainInterface1 Test that the button for opening the customer form works TCMainInterface2 Test that the button for opening the Orders Form works TCMainInterface3 Test that the button for opening the User Form works TCMainInterface4 Test that the button for opening the User Form opens Test that the button for opening the User Form opens Test that the button for opening the User Form opens Test that the button for opening the User Form opens Test that the button for opening the User Form opens Test that the button for opening the User Form opens Test that the button for opening the Press the Products Button Test that the button for opening the Press the Products Button The Products Form opens The Produc	TCProctuctsTable5					
Number of Test Description of what is Being Tested How the Test is Conducted Test that the button for opening the customer form works TCMainInterface2 Test that the button for opening the Orders Form works TCMainInterface2 Test that the button for opening the Orders Form works TCMainInterface3 Test that the button for opening the Orders Form works TCMainInterface4 Test that the button for opening the Orders Form works TCMainInterface5 Test that the button for opening the Products Form works TCMainInterface6 Test that the handheld button works TCMainInterface6 Test that the handheld button works Test that the refresh button works Test that the refresh button works Test that the refresh button works Test that the page will re- The Customer Form opens opens The Order form opens		end date				
TCMainInterface1 Test that the button for opening the customer form works TCMainInterface2 Test that the button for opening the Orders button Test that the button for opening the Orders button Test that the button for opening the User Form works TCMainInterface3 Test that the button for opening the User Form works Test that the button for opening the User Form works Test that the button for opening the User Form works Test that the button for opening the Press the User Button The User form opens The User form opens The User form opens The Products F		Description of what is Poing Tested	How the Test is Conducted	Expected Posults	Actual Results	Corrective Action Taken
TCMainInterface2 TCMainInterface2 TCMainInterface3 TEst that the button for opening the Orders button TCMainInterface3 Test that the button for opening the Orders button TCMainInterface4 TCMainInterface4 TCMainInterface4 TCMainInterface5 TCMainInterface5 Test that the button for opening the User Button TCMainInterface4 Test that the button for opening the Press the User Button TCMainInterface4 TCMainInterface6 Test that the button for opening the Press the Products Button The Products Form opens The User form opens The Products Form opens The P	TAUTIDEL OF LEST					Corrective Action Faken
TCMainInterface2 Orders Form works Test that the button for opening the User Form works TCMainInterface4 TCMainInterface4 TCMainInterface5 Test that the button for opening the User Button TCMainInterface6 Test that the button for opening the Press the User Button TCMainInterface6 Test that the handheld button works TCMainInterface6 Test that the refresh button works Test that the refresh button works Test that the refresh button works TCMainInterface6 Test that the refresh button works Test that the refresh button works Test that the refresh button works TCMainInterface6 Test that the refresh button works Test that the pade will re- Test that the pade will re- The page will re- The page will re- The page will re- The page will re-				opens	opens	
Orders Form works Test that the button for opening the User Button User Form works TCMainInterface4 Test that the button for opening the Press the User Button User Form works TCMainInterface4 Test that the button for opening the Press the Products Button Products form works TCMainInterface5 Test that the handheld button Works Test that the refresh button works The page will re-					The order form	
TCMainInterfaces TCMainInterfaces Test that the button for opening the Press the Products Button products Form opens TCMainInterfaces TCMainInterfaces TCMainInterface6 Test that the handheld button works TCMainInterface6 Test that the refresh button works Test that the refresh button works Test that the refresh button works TCMainInterface6 Test that the refresh button works Test that the refresh button works Test that the refresh button works Topens The Products Form opens The handheld form opens The page will re-	TCMainInterface1	Test that the button for opening the	Press the Orders button			
TcMainInterface4 Test that the button for opening the Press the Products Button opens TcMainInterface5 Test that the button for opening the Press the Products Button opens Test that the button for opening the Press the Products Button opens Test that the button for opening the Press the Products Button opens Test that the button for opening the Press the Products Button The Products Form opens The handheld form opens The handheld form opens The products Form opens The handheld form opens The products Form	TCMainInterface1 TCMainInterface2	Test that the button for opening the Orders Form works		opens	opens	
Products form works opens opens opens TCMainInterface5 Test that the handheld button works opens opens opens opens TCMainInterface6 Test that the refresh button works Press the handheld button opens opens opens TCMainInterface6 Test that the refresh button works Press the refresh button The page will re- TCMainInterface6 Test that the refresh button works Press the refresh button The page will re- TCMainInterface6	TCMainInterface1 TCMainInterface2	Test that the button for opening the Orders Form works Test that the button for opening the		opens	opens	
TCMainInterface5 works opens opens opens TCMainInterface6 Test that the refresh button works Press the refresh button The page will re-open The page will	TCMainInterface1 TCMainInterface2 TCMainInterface3	Test that the button for opening the Orders Form works Test that the button for opening the User Form works Test that the button for opening the	Press the User Button	opens The User form opens The Products Form	opens The User form opens The Products Form	
TCMainInterface 6 Test that the refresh button works Press the refresh button The page will re-	TCMainInterface1 TCMainInterface2 TCMainInterface3	Test that the button for opening the Orders Form works Test that the button for opening the User Form works Test that the button for opening the Products form works	Press the User Button Press the Products Button	opens The User form opens The Products Form opens	opens The User form opens The Products Form opens	
ореп	TCMainInterface1 TCMainInterface2 TCMainInterface3 TCMainInterface4	Test that the button for opening the Orders Form works Test that the button for opening the User Form works Test that the button for opening the Products form works Test that the handheld button	Press the User Button Press the Products Button	opens The User form opens The Products Form opens The handheld form	opens The User form opens The Products Form opens The handheld form	
	TCMainInterface1 TCMainInterface2 TCMainInterface3 TCMainInterface4 TCMainInterface5	Test that the button for opening the Orders Form works Test that the button for opening the User Form works Test that the button for opening the Products form works Test that the handheld button works	Press the User Button Press the Products Button Press the handheld button	opens The User form opens The Products Form opens The handheld form opens	opens The User form opens The Products Form opens The handheld form opens	

SQL For Each LLD

- 1. Create new users and handhelds
 - INSERT INTO Users values ();
 - INSERT INTO Handheld values ();
- 2. Update users and handhelds
 - UPDATE User

Set column1 = value 1, column2 = value 2, etc WHERE condition;

UPDATE Handheld
 Set column1 = value 1, column2 = value 2, etc
 WHERE condition;

3. Update Orders

UPDATE Order

Set column1 = value 1, column2 = value 2, etc WHERE condition;

4. Update Sales

UPDATE Sales
 Set column1 = value 1, column2 = value 2, etc
 WHERE condition;

5. Show Sale Items Isle

Select ItemName
 From Sales:

6. Delete old users and handhelds

 DELETE FROM User WHERE condition;

 DELETE FROM Handheld WHERE condition;

7. Delete Stock no longer on sale

 DELETE FROM Sales WHERE condition;

8. Display order's status, due date, and delivery driver

 Select OrderStatus, DeliveryDate, DeliveryDriver From Order;

9. Organise orders by name, date, and quantity

 Select Customer.CustomerFirstName, Order.DeliveryDate, Order.OrderQuantity, From Customer

INNER JOIN Order

ON Order.CustomerID = Customer.CustomerID

ORDER BY

Customer.CustomerFirstName/Order.DeliveryDate/Order.OrderQuantity ASC/DEC;

10. View Old orders

SELECT * FROM Orders
 WHERE DeliveryDate= "DATE"

CONCLUSION

This Online Ordering Database is used for managing a shops orders, customers, users, sales, and handhelds. The handhelds are used to process the orders when the orders appear on the system. The customers that have orders are assign a specific CustomerID so it links all orders by that customer to that CustomerID. So, if the user wanted to find the number of orders by that customer, they would use the SQL to search for that specific CustomerID. The database also manages sales, upcoming and currently in process, it assigns a start date for the price to change and an end date, it also shows the item barcode and isle located in. The Database stores all the employees that work for the company and assigns them an employeeNumber which can be linked back to which handheld was used. The Customer Table displays the customers address, name, orders, and ID. There are 5 tables in this database, Customer, User, Sales, Orders and Handhelds. These are used to manage the company's online orders and store all required information.

Bibliography

There are no sources in the current document.