

Group Project – SQL Injectors

DESIGN OF IMPLEMENTED FUNCTIONS

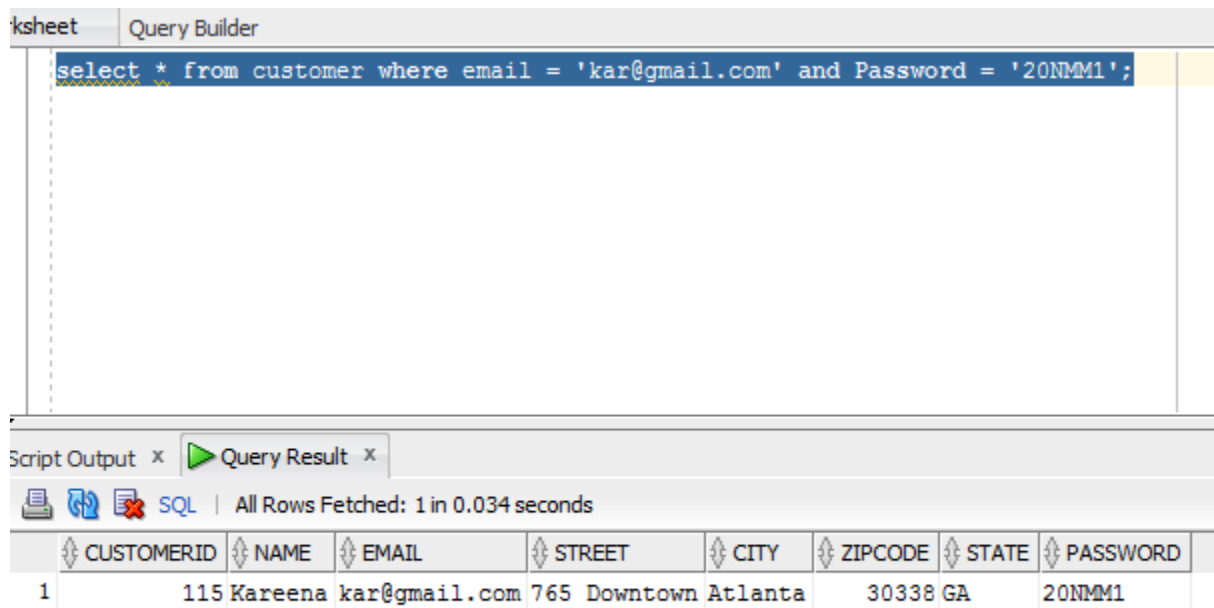
1. Customer Login

A customer logs in to system, using username(email) and password.
If the record is found, customer authenticates and login to system.

SQL Statement

select * from customer where email = 'kar@gmail.com' and Password = '20NMM1';

Table Name	Display Fields
customer	All Fields



If the record is not found, customer can sign up and create account.
To create account customer can enter his username email and password

Customer Name– Jiya Rahman
Email – jiya.rahman@gmail.com
Password - *****
Sql Statement –

INSERT INTO CUSTOMER (CUSTOMERID, NAME, EMAIL, PASSWORD) VALUES

('117', 'Jiya', 'jiya.rahman@gmail.com', '1212B1');

Commit ;

Table Name	Display Fields
customer	CUSTOMERID
	NAME
	EMAIL
	PASSWORD

```
INSERT INTO CUSTOMER (CUSTOMERID, NAME, EMAIL, PASSWORD) VALUES
('117', 'Jiya', 'jiya.rahman@gmail.com', '1212B1');

Commit ;

select * from CUSTOMER where CUSTOMERID = 116
```

Script Output x Query Result x

SQL | All Rows Fetched: 1 in 0.034 seconds

	CUSTOMERID	NAME	EMAIL	STREET	CITY	ZIPCODE	STATE	PASSWORD
1	116	Jiya	jiya.rahman@gmail.com	328 Deerfield	Alpharetta	30004	GA	1212B1

2. Customer can update Address

After creation or upon creation of customeraccount, customer can enter his address details into the system.

UPDATE Customer Set Street = '328 Deerfield',

City = 'ALpharetta',

ZipCode = '30004',

State = 'CA'

Where Email = 'jiya.rahman@gmail.com';

Commit;

Table Name	Update Fields
customer	Street
	Street
	ZipCode
	State

```
INSERT INTO CUSTOMER (CUSTOMERID, NAME, EMAIL, PASSWORD) VALUES
('117', 'Jiya', 'jiya.rahman@gmail.com', '1212B1');

Commit ;

select * from CUSTOMER where CUSTOMERID = 116
```

Script Output x Query Result x

SQL | All Rows Fetched: 1 in 0.034 seconds

CUSTOMERID	NAME	EMAIL	STREET	CITY	ZIPCODE	STATE	PASSWORD
1	116 Jiya	jiya.rahman@gmail.com	328 Deerfield	Alpharetta	30004	GA	1212B1

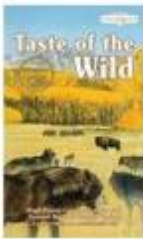



3. Customer can delete his account

Delete from Customer Where Email = 'jiya.rahman@gmail.com';

<pre> Delete from Customer Where Email = 'jiya.rahman@gmail.com'; Select * from Customer Where Email = 'jiya.rahman@gmail.com'; </pre>							
Script Output x Query Result x							
SQL All Rows Fetched: 0 in 0.03 seconds							
CUSTOMERID	NAME	EMAIL	STREET	CITY	ZIPCODE	STATE	PASSWORD

4. Product List Screen

When Customer successfully logs into to system , customer can see the list of all products :

	Best Seller Taste of the Wild Dry Dog Food, Hi Prairie Canine Formula with Roasted Bison &... by Taste of the Wild \$48.99 ★★★★★ 8,948 Product Features Grain-free dog food for all life stages
	Blue Buffalo Dry Food for Small Breed Dogs, Chicken and Brown Rice Recipe,... by Blue Buffalo \$14.99 \$19.99 Get it by Friday, Oct 7 ★★★★★ 2,636 Product Features ... special needs of smaller dogs, BLUE Life Protection Formula for ...
	CANIDAE All Life Stages Dog Food Made With Chicken, Turkey, Lamb & Fish Meals... by CANIDAE \$54.14 \$59.99 ★★★★★ 1,398 Product Description ... need to juggle different foods for all the dogs in your family. It's ...
	Kibbles 'n Bits American Grill Grilled USA Beef Steak Flavor Dry Dog Food,... by Kibbles 'n Bits \$10.48 \$19.59 Subscribe & Save ★★★★★ 97 Product Features 100% Complete and Balanced Nutrition for Your Dog

SQL Query –

```

select product.ProductId, product.ProductName, Product.Description, Product.Image,
product.PRICE_INDOLLARS, product.MANUFACTURER, avg(CUSTOMERPRODUCT.rating)
from product
left join CUSTOMERPRODUCT
on product.productid = CUSTOMERPRODUCT.PRODUCTID
group by product.productid, product.ProductName, Product.Image, product.PRICE_INDOLLARS,
product.MANUFACTURER, Product.Description;

```

Table Name	Display Fields
product	ProductId
	ProductName
	Description
	Image
	PRICE_INDOLLARS
CUSTOMERPRODUCT	rating

Worksheet

Query Builder

```
select product.ProductId,product.ProductName ,Product.Description,Product.Image,product.PRICE_INDOLLARS ,
product.MANUFACTURER, avg(CUSTOMERPRODUCT.rating)
from product
left join CUSTOMERPRODUCT
on product.productid = CUSTOMERPRODUCT.PRODUCTID
group by product.productid,product.ProductName,Product.Image,product.PRICE_INDOLLARS,product.MANUFACTURER,Product.Description;
```

Script Output x

Query Result x

SQL | All Rows Fetched: 5 in 0.031 seconds

PROD...	PRODUCTNAME	DESCRIPTION	IMAGE	PRICE_INDOLLARS	MANUFACTURER	AVG(CUSTOMERPRODUCT.RATING)
1	215 Taste of the Wild...	Taste of ...	Image	58	Taste of the wild	4
2	211 CESAR Dry Dog Food	Give your...	Image	18	Cesar	(null)
3	213 Wellness CORE Nat...	Wellness ...	Image	12	Wellness CORE	5
4	212 Ideal Balance Lar...	Hill's Id...	Image	49	Hills	5
5	214 Wellness CORE Air...	Wellness ...	Image	25	Wellness CORE	2

5. Product Details

While browsing, when a customer clicks on a product, he/she could see all details about the product like price, size, dimensions, shipping weight, model number, description, manufacturer, feature, rating, headline, review, question, answer related to the product.

Tables Involved:

Table Name	Display Fields
Product	Name, Price, Discount, Size, Dimensions, ShippingWeight, ModelNumber, Description,Image, Manufacturer
ProductFeature	Feature
CustomerProduct	Rating, Headline, Review
ProductQuestionnaire	Question, Answer

Assuming that the customer clicks on Product with ProductID =212. The information can be retrieved through following sql queries:

SQL Statements:

```
Select P.ProductID, P.ProductName, P.PRICE_INDOLLARS, P.DISCOUNT_INDOLLARS,  
P.PRODUCTSIZE_INPOUNDS, P.DIMENSIONS_ININCHES, P.SHIPPINGWEIGHT_INPOUNDS,  
P.ModelNumber, P.Description, P.Image, P.Manufacturer,
```

```
avg(CP.Rating) AS CustomerRating
```

```
from Product P
```

```
INNER JOIN CUSTOMERPRODUCT CP on P.Productid = CP.PRODUCTID
```

```
group by P.ProductID, P.ProductName, P.PRICE_INDOLLARS, P.DISCOUNT_INDOLLARS,  
P.PRODUCTSIZE_INPOUNDS, P.DIMENSIONS_ININCHES, P.SHIPPINGWEIGHT_INPOUNDS,  
P.ModelNumber, P.Description, P.Image, P.Manufacturer
```

```
HAVING P.ProductID = 212;
```

Worksheet

Query Builder

Select P.ProductID, P.ProductName, P.PRICE_INDOLLARS, P.DISCOUNT_INDOLLARS, P.PRODUCTSIZE_INPOUNDS, P.DIMENSIONS_ININCHES, P.SHIPPINGWEIGHT_INPOUNDS, P.ModelNumber, P.Description, P.Image, P.Manufacturer, avg(CP.Rating) AS CustomerRating

from Product P

INNER JOIN CUSTOMERPRODUCT CP on P.Productid = CP.PRODUCTID

group by P.ProductID, P.ProductName, P.PRICE_INDOLLARS, P.DISCOUNT_INDOLLARS, P.PRODUCTSIZE_INPOUNDS, P.DIMENSIONS_ININCHES, P.SHIPPINGWEIGHT_INPOUNDS, P.ModelNumber, P.Description, P.Image, P.Manufacturer

HAVING P.ProductID = 212;

Script Output x

Query Result x

SQL

All Rows Fetched: 1 in 0.038 seconds

PRODUCTID	PRODUCTNAME	PRICE_INDOLLARS	DISCOUNT_INDOLLARS	PRODUCTSIZE_INPOUNDS	DIMENSIONS_ININCHES	SHIPPINGWEIGHT_INPOUNDS
1	212 Ideal Balance Large Breed Natural Chicken and Brown Rice Recipe Dry Dog Food	49	10	25	23.6 x 15.8 x 5.7	30

MODELNUMBER	DESCRIPTION	IMAGE	MANUFACTURER	CUSTOMERRATING
2281	Hill's Ideal Balance Large Breed Natural Chicken and Brown Rice Recipe Adult dog food provides natural ingredients perfectly balanced for large breed dogs	Image	Hills	5

Select ProductID,Feature

from PRODUCTFEATURE

Where ProductID = 212;





Worksheet

Query Builder

```
Select ProductID, Feature
from PRODUCTFEATURE
Where ProductID = 212;
```

Script Output x

Query Result x

    SQL | All Rows Fetched: 4 in 0.015 seconds

	PRODUCTID	FEATURE
1	212	Fresh chicken #1 provides lean protein to help keep slim and trim
2	212	Natural ingredients plus vitamins, minerals and amino acids
3	212	Brown rice with natural fiber for healthy digestion
4	212	Omega 3 and 6 fatty acids improve skin and coat, guaranteed or your money back

Select Rating, Headline, Review


from CUSTOMERPRODUCT




Where ProductID = 212;

Worksheet Query Builder

```
Select Rating, Headline, Review
from CUSTOMERPRODUCT
where ProductID = 212;
```

Script Output x Query Result x

 All Rows Fetched: 2 in 0 seconds

	 RATING	 HEADLINE	 REVIEW
1	5	We love this food!	My dog is happy and healthy with this food, and his mom is happy that it doesnt cost a fortune on Amazon, and its made in the USA! For reference, I have an American Pit Bull with seasonal
2	5	Great Food!	Fantastic dog food. I wont buy food for my dogs that have all that grain for filler. And I wont buy food that isnt made in the USA, WITH USA INGREDIENTS!!!!!! A lot of dog food says made

Select Question, Answer

from PRODUCTQUESTIONNAIRE

Where ProductID = 212;

WorksheetQuery Builder

Select Question, Answer
from PRODUCTQUESTIONNAIRE
where ProductID = 212;

Script Output xQuery Result x

SQL

All Rows Fetched: 2 in 0.014 seconds

QUESTIONANSWER

1how long does an 8 month old large breed stay on puppy food?At least one full year to get that good nutritious start! It differs slightly from small breed to large breed but if they are eating puppy food for size

2What is the serving size for 60lb dogs?I use the chart on the bag it works for me. Its pretty close, watch you dogs weight and adjust accordingly.

6. Update Product Features

On the backend, we can update the features of a product if required. E.g. , For ProductID – 211, one of the features is ‘This gourmet dog food is specially crafted with 26 nutrients that small breed dogs need’ (ProductFeatureID -3). We want to change this to ‘This gourmet dog food is specially crafted with 30 nutrients that small breed dogs need’.

Tables involved:

Table Name	Update Fields
ProductFeature	Feature

SQL Statement:

Update PRODUCTFEATURE

SET FEATURE = 'This gourmet dog food is specially crafted with 30 nutrients that small breed dogs need'

Where ProductID = 211 and Feature = 'This gourmet dog food is specially crafted with 26 nutrients that small breed dogs need';

Table before change:

PRODUCTFEATUREID	FEATURE	PRODUCTID
1	1 Contains one (1) 5-lb. bag of CESAR Filet Mignon Flavor With Spring Vegetables Dry Dog Food	211
2	2 CESAR Dry Dog Food is made with real beef as the first ingredient for a taste dogs love	211
3	3 This gourmet dog food is specially crafted with 26 nutrients that small breed dogs need	211
4	4 Fresh chicken #1 provides lean protein to help keep slim and trim	212
5	5 Natural ingredients plus vitamins, minerals and amino acids	212
6	6 Brown rice with natural fiber for healthy digestion	212
7	7 Omega 3 and 6 fatty acids improve skin and coat, guaranteed or your money back	212
8	8 GRAIN FREE: grain free, complete and balanced everyday nutrition for your small breed dog.	213
9	9 SMALL BREED: Naturally grain free and protein rich, made with premium turkey and chicken, and the optimum calorie levels to support higher energy needs of small breeds.	213
10	10 ALL NATURAL: Contains only premium, all natural ingredients with no wheat, corn, soy, meat by-products, or artificial colors, flavors and preservatives.	213
11	11 MADE IN USA: Backed by the Wellness Guarantee and proudly made only in the USA.	213
12	12 GRAIN FREE: grain free, complete and balanced everyday nutrition for your dog, using a unique drying process that locks in more protein, nutrition and flavor.	214
13	13 PROTEIN FOCUSED NUTRITION: Naturally grain free with 70% delicious premium proteins including turkey and chicken in each bite.	214
14	14 ALL NATURAL: Contains only premium, all natural ingredients with no wheat-gluten, corn, soy, meat by-products, or artificial colors, flavors and preservatives.	214
15	15 Made with real roasted meats	215
16	16 Delivers natural antioxidants to protect	215
17	17 With lean bison and venison meat, roasted for great flavor	215
18	18 Packed with highly digestible protein and antioxidants	215

Table after change:

PRODUCTFEATUREID	FEATURE	PRODUCTID
1	1 Contains one (1) 5-lb. bag of CESAR Filet Mignon Flavor With Spring Vegetables Dry Dog Food	211
2	2 CESAR Dry Dog Food is made with real beef as the first ingredient for a taste dogs love	211
3	3 This gourmet dog food is specially crafted with 30 nutrients that small breed dogs need	211
4	4 Fresh chicken #1 provides lean protein to help keep slim and trim	212
5	5 Natural ingredients plus vitamins, minerals and amino acids	212
6	6 Brown rice with natural fiber for healthy digestion	212
7	7 Omega 3 and 6 fatty acids improve skin and coat, guaranteed or your money back	212
8	8 GRAIN FREE: grain free, complete and balanced everyday nutrition for your small breed dog.	213
9	9 SMALL BREED: Naturally grain free and protein rich, made with premium turkey and chicken, and the optimum calorie levels to support higher energy needs of small breeds.	213
10	10 ALL NATURAL: Contains only premium, all natural ingredients with no wheat, corn, soy, meat by-products, or artificial colors, flavors and preservatives.	213
11	11 MADE IN USA: Backed by the Wellness Guarantee and proudly made only in the USA.	213
12	12 GRAIN FREE: grain free, complete and balanced everyday nutrition for your dog, using a unique drying process that locks in more protein, nutrition and flavor.	214
13	13 PROTEIN FOCUSED NUTRITION: Naturally grain free with 70% delicious premium proteins including turkey and chicken in each bite.	214
14	14 ALL NATURAL: Contains only premium, all natural ingredients with no wheat-gluten, corn, soy, meat by-products, or artificial colors, flavors and preservatives.	214
15	15 Made with real roasted meats	215
16	16 Delivers natural antioxidants to protect	215
17	17 With lean bison and venison meat, roasted for great flavor	215
18	18 Packed with highly digestible protein and antioxidants	215

7. Customer can modify his/her review

A customer is allowed to update the review he/she provided for a particular product. E.g. – A customer (customerID -111) wants to update his/her review of a product (ProductID – 214) from ‘Unfortunately both my wheaten terriers are skipping meals when I add this to their kibble. I am not sure why they don't like it.’ To ‘My dogs dislike it.’

Tables involved:

Table Name	Update Fields
CustomerProduct	Review

SQL query:

Update CUSTOMERPRODUCT

SET REVIEW = 'My dogs dislike it.'

Where CUSTOMERID =111 and PRODUCTID = 214;

Table before change:

	CUSTOMERPRODUCTID	CUSTOMERID	PRODUCTID	RATING	HEADLINE	REVIEW
1	100	111	212	5	We love this food!	My dog is happy and healthy with this food, and his mom is happy that it doesnt cost a fortune on Amazon, an
2	101	113	212	5	Great Food!	Fantastic dog food. I wont buy food for my dogs that have all that grain for filler. And I wont buy food tha
3	102	111	215	5	My dogs are wild about this food !!!	My dogs like this better than any other food I have fed them. Its pain protein is duck and duck was recommen
4	103	112	215	3	High quality on a budget if youre willing to compromise	I loved this product for the time being while seeing what budget friendly high quality foods my dog would li
5	104	114	215	4	Price Increase Reduces Value	This food used to be \$43-44 with Prime. Price increase makes it not worth it - this used to be a high qualit
6	105	113	213	5	Excellent grain free Weight Control food!	I free feed both my boys and my schnauzer tends to the heavier side than his poodle brother. Both are doing
7	106	112	213	5	Tastes great.	Most grain free dog foods use Potatoes or Sweet Potatoes for the main grain free ingredient. This uses Chick
8	107	111	214	2	No go for the wheatens	Unfortunately both my wheaten terriersare skipping meals when I add this to their kibble. I am not sure why

Table after change:

	CUSTOMERPRODUCTID	CUSTOMERID	PRODUCTID	RATING	HEADLINE	REVIEW
1	100	111	212	5	We love this food!	My dog is happy and healthy with this food, and his mom is happy that it doesnt cost a fortune on Amazon, an
2	101	113	212	5	Great Food!	Fantastic dog food. I wont buy food for my dogs that have all that grain for filler. And I wont buy food tha
3	102	111	215	5	My dogs are wild about this food !!!	My dogs like this better than any other food I have fed them. Its pain protein is duck and duck was recommen
4	103	112	215	3	High quality on a budget if youre willing to compromise	I loved this product for the time being while seeing what budget friendly high quality foods my dog would li
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7	106	112	213	5	Tastes great.	Most grain free dog foods use Potatoes or Sweet Potatoes for the main grain free ingredient. This uses Chick
8	107	111	214	2	No go for the wheatens	My dogs dislike it.

8. FETCH THE DATA FROM CART DETAILS AND DISPLAY ON THE PAGE

Blue Buffalo Wilderness Rocky Mountain Recipe Dry Adult Dog Food
by BLUE Wilderness
★★★★★ 357 customer reviews
| 14 answered questions

List Price: \$63.99
Price: **\$45.99** **In Stock.**
You Save: \$8.00 (15%)

Size: 4 lb
☒ 4 lb ☐ 10 lb ☐ 22 lb

- 4 lb bag
- BLUE Wilderness Rocky Mountain Recipe for Small Breed Dogs is made with increased protein and carbohydrates to meet higher energy needs.
- Made in the USA
- Love them like family, feed them like family

Product Details
Flavor Name: Rocky Mountain Small Breed Red Meat Grain Free | Size: 4 lb
Product Dimensions: 5 x 2 x 4 inches ; 1 pounds
Shipping Weight: 4.4 pounds (View shipping rates and policies)
Item model number: BLU00881

Product Description
Flavor Name: Rocky Mountain Small Breed Red Meat Grain Free | Size: 4 lb

Product Description
Blue buffalo wilderness dry puppy food inspired by the diet of wolves, true omnivores whose endurance is legendary, blue wilderness puppy is a grain-free, protein-rich food that contains more of the delicious chicken your puppy loves. Formulated specifically to help meet the important needs of growing puppies, blue buffalo wilderness dry puppy food benefits brain and eye development. DHA, an important fatty acid found in mother's milk, supports cognitive development and retinal function. High-Quality protein from delicious deboned chicken, plus chicken meal, turkey meal and egg helps support healthy muscle growth and build strong muscles. An optimal blend of calcium, phosphorus and essential vitamins helps maintain healthy bone growth. Unique small-bite kibble is the perfect size for smaller jaws and is shaped to promote tartar removal. The optimal balance of omega 3 & 6 fatty acids helps promote a shiny coat and healthy skin. Essential vitamins, chelated minerals and important antioxidants help support the immune system.

From the Manufacturer
For centuries wolves have roamed the American West surviving on a diet provided solely by the wild. The spirit of the wolf lives on in dogs today and is the reason we created BLUE Wilderness Rocky Mountain Recipe. It's a protein-rich formula made with more of the meat dogs love, and features: Tasty, protein-rich, Deboned Beef, Bison, Lamb and Venison. None of the grains that contain gluten. The finest natural ingredients including antioxidant-rich fruits and vegetables. NO chicken (or poultry) by-product meals and no corn, wheat or soy.

Qty: 1
Add to Cart
Add to List

Customer Reviews
★★★★★ 357
4.6 out of 5 stars
5 star 77%
4 star 9%
3 star 5%
2 star 2%
1 star 7%
See all 357 customer reviews

Most Recent Customer Reviews
★★★★★ Five Stars
My 90lb pitty loves this stuff!
Published 11 hours ago by Dustin L.

Assumption here is that we have the customer ID

SELECT

C.STATUS, CP.NUMBEROFUNITS, P.PRODUCTNAME, P.PRICE_INDOLLARS, P.DESCRPTION, P.MANUFACTURER, P.IMAGE

From

(CARTPRODUCTS CP INNER JOIN CART C ON CP.CARTID = C.CARTID)

INNER JOIN PRODUCT P ON CP.PRODUCTID = P.PRODUCTID

WHERE C.CUSTOMERID = 111;

Details of products added to cart are got through joining tables Cart, Cart Products and Products:

Oracle SQL Developer: C:\Users\nik_v\AppData\Roaming\SQL Developer\Card&Payment.sql

File Edit View Navigate Run Source Team Tools Window Help

Connections

Connections

Nikhil

Tables (Filtered)

CARDDETAILS

CARDDETAILSID

CUSTOMERID

CARDTYPE

CARDNUMBER

EXPIRYDATE

SECURITYCODE

FIRSTNAME

LASTNAME

PHONE

EMAIL

COMPANYNAME

STREET

APARTMENTNUMBER

ZIPCODE

CART

CARTID

STATUS

CUSTOMERID

CARTPRODUCTS

CARTPRODUCTSID

CARTID

PRODUCTID

NUMBEROFUNITS

CUSTOMER

CUSTOMERPRODUCT

Reports

All Reports

Data Dictionary Reports

Data Modeler Reports

OLAP Reports

TimesTen Reports

User Defined Reports

SQL Worksheet

History

Worksheet

Query Builder

```
select * from cardetails;
SELECT C.STATUS, CP.NUMBEROFUNITS, P.PRODUCTID, P.PRODUCTNAME, P.PRICE_INDOLLARS, P.DESRIPTION, P.MANUFACTURER, P.IMAGE
FROM (CARTPRODUCTS CP INNER JOIN CART C ON CP.CARTID = C.CARTID)
INNER JOIN PRODUCT P ON CP.PRODUCTID = P.PRODUCTID
WHERE C.CUSTOMERID = 111;
```

Script Output

Query Result

All Rows Fetched: 3 in 0.048 seconds

STATUS	NUMBEROFUNITS	PRODUCTID	PRODUCTNAME	PRICE_INDOLLARS	DESCRIPTION
1 Active	1	211	CESAR Dry Dog Food		18 Give your dog a seat at the dinner table with CESAR Fil
2 Active	4	213	Wellness CORE Natural Grain Free Dry Dog Food		12 Wellness CORE Natural Grain Free Dry Dog Food Small B
3 Active	3	214	Wellness CORE Air Dried Grain Free Natural Dry Dog Food 2-Pound Bag		25 Wellness CORE Air Dried Natural Grain Free Dry Dog Foo

Saved: C:\Users\nik_v\AppData\Roaming\SQL Developer\Card&Payment.sql

12:11 AM 2/23/2017

9. UPDATE THE CART DETAILS LIKE QUANTITY

Assumption here is that we have the Product ID when we select a product and try to modify the number of Items.

UPDATE CARTPRODUCTS SET NUMBEROFUNITS = 2 WHERE PRODUCTID = 211;

Oracle SQL Developer: C:\Users\nik_v\AppData\Roaming\SQL Developer\Card&Payment.sql

File Edit View Navigate Run Source Team Tools Window Help

Connections

Connections

Nikhil

Tables (Filtered)

CARDDETAILS

CARDDETAILSID

CUSTOMERID

CARDTYPE

CARDNUMBER

EXPIRYDATE

SECURITYCODE

FIRSTNAME

LASTNAME

PHONE

EMAIL

COMPANYNAME

STREET

APARTMENTNUMBER

ZIPCODE

CART

CARTID

STATUS

CUSTOMERID

CARTPRODUCTS

CARTPRODUCTSID

CARTID

PRODUCTID

NUMBEROFUNITS

CUSTOMER

CUSTOMERPRODUCT

Reports

All Reports

Data Dictionary Reports

Data Modeler Reports

OLAP Reports

TimesTen Reports

User Defined Reports

SQL Worksheet

History

Worksheet

Query Builder

```
SELECT C.STATUS, CP.NUMBEROFUNITS, P.PRODUCTID, P.PRODUCTNAME, P.PRICE_INDOLLARS, P.DESRIPTION, P.MANUFACTURER, P.IMAGE
FROM (CARTPRODUCTS CP INNER JOIN CART C ON CP.CARTID = C.CARTID)
WHERE C.CUSTOMERID = 111;

UPDATE CARTPRODUCTS SET NUMBEROFUNITS = 2 WHERE PRODUCTID = 211;
```

Script Output

Query Result

All Rows Fetched: 3 in 0.039 seconds

STATUS	NUMBEROFUNITS	PRODUCTID	PRODUCTNAME	PRICE_INDOLLARS	DESCRIPTION
1 Active	2	211	CESAR Dry Dog Food		18 Give your dog a seat at the dinner table with CESAR Fil
2 Active	4	213	Wellness CORE Natural Grain Free Dry Dog Food		12 Wellness CORE Natural Grain Free Dry Dog Food Small B
3 Active	3	214	Wellness CORE Air Dried Grain Free Natural Dry Dog Food 2-Pound Bag		25 Wellness CORE Air Dried Natural Grain Free Dry Dog Foo

Saved: C:\Users\nik_v\AppData\Roaming\SQL Developer\Card&Payment.sql

12:13 AM 2/23/2017

10. GET THE PAYMENT DETAILS FOR A PARTICULAR CUSTOMER

Assumption here is that we have the customer ID

Payment

Same as shipping information

Billing Contact

First Name, Last Name, Area Code, Primary Phone, Alternate Phone (optional), Email Address

Billing Address

Company Name (optional), Street Address, Apt, Suite, Bldg. (optional), ZIP Code, Enter ZIP for City and State

Payment Method

VISA, MasterCard, American Express, Discover

Debit/Credit Card Number, Security Code, Expires 09 2019

Create account

Your name, Email, Password (at least 6 characters), Password again

☒ Save as my default debit/credit card information

[Chat Now](#) [Continue](#)

SELECT

c.NAME, c.EMAIL, c.STREET, c.CITY, c.ZIPCODE, c.STATE, cd.CARDTYPE, cd.CARDNUMBER, cd.EXPIRYDATE, P.STATUS

FROM

(CUSTOMER C INNER JOIN CARDDetails CD ON C.CUSTOMERID = CD.CUSTOMERID) INNER JOIN PAYMENT P ON C.CUSTOMERID = P.CUSTOMERID

WHERE C.NAME = 'Ram';

Oracle SQL Developer: C:\Users\link\AppData\Local\Temp\SQL Developer\CardPayment.sql

Connections: C:\Users\link\AppData\Local\Temp\SQL Developer\CardPayment.sql

Query Builder:

```
SELECT c.NAME, c.EMAIL, c.STREET, c.CITY, c.ZIPCODE, c.STATE, cd.CARDTYPE, cd.CARDNUMBER, cd.EXPIRYDATE, P.STATUS
FROM (CUSTOMER C INNER JOIN CARDDetails CD ON C.CUSTOMERID = CD.CUSTOMERID) INNER JOIN PAYMENT P ON C.CUSTOMERID = P.CUSTOMERID
WHERE C.NAME = 'Ram';
```

Script Output:

```
SQL: All Rows Fetched: 1 in 0.038 seconds
```

NAME	EMAIL	STREET	CITY	ZIPCODE	STATE	CARDTYPE	CARDNUMBER	EXPIRYDATE	STATUS
Ram	ram@gmail.com	245 Buckhead Atlanta	30339 GA	7024	41111111111111111111	13-VISA-20	AUTHORISATION COMPLETE		

11. Update the payment status after the payment is Successful

Assumption here is that we have the customer ID

- **SELECT * from Payment Where CUSTOMERID = 111;**

The screenshot shows the Oracle SQL Developer interface. The left pane displays the database schema with the 'PAYMENT' table selected. The main window shows the 'Query Builder' tab with the following SQL query:

```
select * from CardDetails;

select * from Payment
where CUSTOMERID = 111;

UPDATE PAYMENT SET STATUS = 'AUTHORISATION COMPLETE'
where CUSTOMERID = 111;
ROLLBACK
```

The 'Script Output' pane shows the query results:

PAYMENTID	STATUS	CARTID	CUSTOMERID
1	1000 PAYMENT PENDING	1	111

The status of the payment is '1000 PAYMENT PENDING'.

- **UPDATE PAYMENT SET STATUS = 'AUTHORISATION COMPLETE' where CUSTOMERID = 111;**

The screenshot shows the Oracle SQL Developer interface after the update. The 'Query Builder' tab displays the same SQL query as before:

```
select * from CardDetails;

select * from Payment
where CUSTOMERID = 111;

UPDATE PAYMENT SET STATUS = 'AUTHORISATION COMPLETE'
where CUSTOMERID = 111;
```

The 'Script Output' pane shows the query results:

PAYMENTID	STATUS	CARTID	CUSTOMERID
1	1000 AUTHORISATION COMPLETE	1	111

The status of the payment has been updated to '1000 AUTHORISATION COMPLETE'. A notification in the bottom right corner states: 'Screenshot saved. The screenshot was added to your OneDrive.'

12. Orders Page

Retrieving the data of the customer's order

SQL Statement

Select ORDERS.CUSTOMERID, ORDERS.ORDERID, PAYMENTID, ORDERDATE, PRODUCTID,
NUMBEROFUNITS, UNITPRICE, (NUMBEROFUNITS * UNITPRICE) AS TOTALPRICE,
orders.ORDERSTATUS
From orders, ORDERDETAILS
WHERE orders.ORDERID = ORDERDETAILS.ORDERID AND ORDERS.CUSTOMERID=112;

Table Name	Display Fields
ORDERS,ORDERDETAILS	ORDERS.CUSTOMERID, ORDERS.ORDERID, PAYMENTID, ORDERDATE, PRODUCTID, NUMBEROFUNITS, UNITPRICE, NUMBEROFUNITS UNITPRICE TOTALPRICE, orders.ORDERSTATUS

The screenshot displays the Oracle SQL Developer interface. The main window shows a SQL query in the Worksheet:

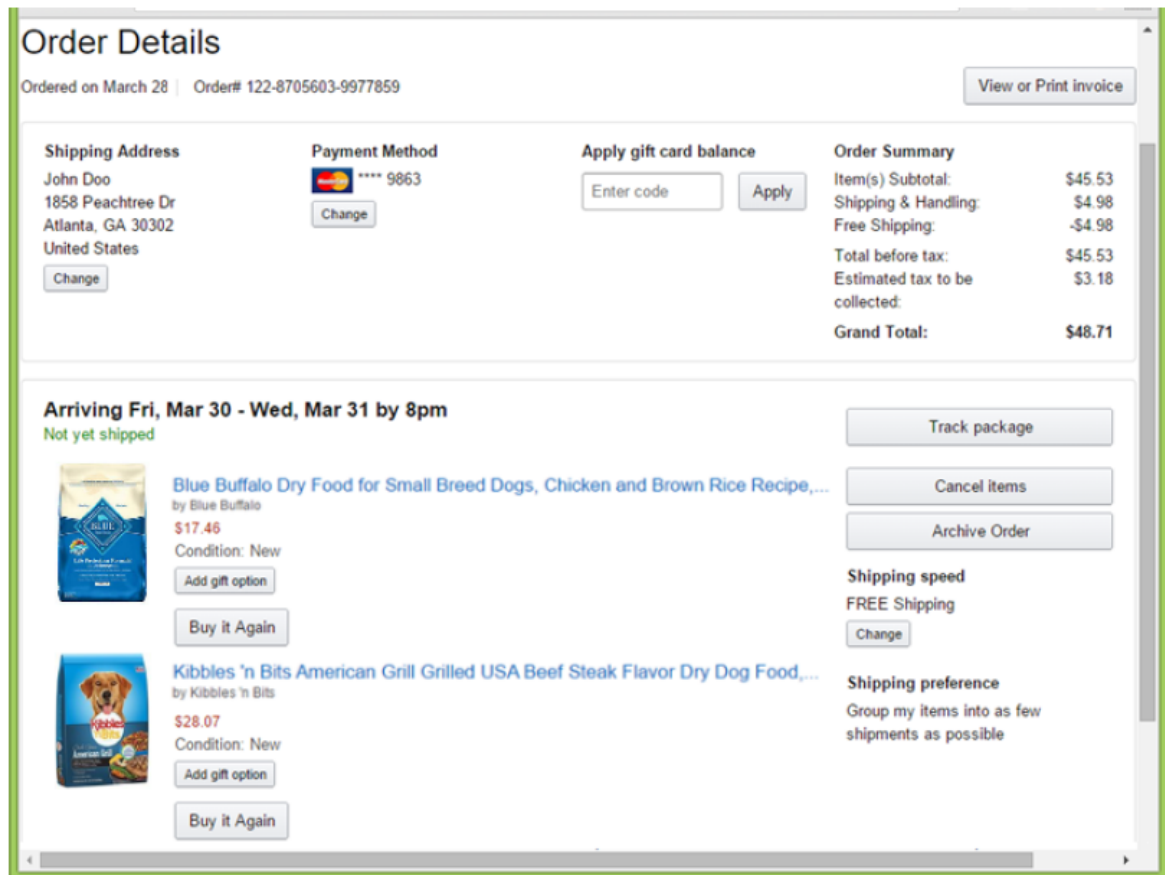
```
Select ORDERS.CUSTOMERID, ORDERS.ORDERID, PAYMENTID, ORDERDATE, PRODUCTID, NUMBEROFUNITS, UNITPRICE, (NUMBEROFUNITS * UNITPRICE) AS TO  
From orders, ORDERDETAILS  
WHERE orders.ORDERID = ORDERDETAILS.ORDERID AND ORDERS.CUSTOMERID=112;
```

The Query Result pane shows the following data:

CUSTOMERID	ORDERID	PAYMENTID	ORDERDATE	PRODUCTID	NUMBEROFUNITS	UNITPRICE	TOTALPRICE	ORDERSTATUS
1	112	3001	100112-FEB-17	215	157.95	57.95	57.95	PROCESSED
2	112	3001	100112-FEB-17	213	112.11	12.11	12.11	PROCESSED


The bottom of the interface shows the SQL History and Messages-Log panes. The SQL History pane shows the executed query. The Messages-Log pane shows three messages: "ClassDemo*: Wed Feb 22 01:09:07 EST 2017: Rollback successful", "ClassDemo*: Wed Feb 22 01:27:24 EST 2017: Rollback successful", and "ClassDemo*: Wed Feb 22 01:58:53 EST 2017: Rollback successful".

The fourth screen shows an example of order details:




Order Details

Ordered on March 28 | Order# 122-8705603-9977859 View or Print invoice

Shipping Address John Doo 1858 Peachtree Dr Atlanta, GA 30302 United States Change	Payment Method  **** 9863 Change	Apply gift card balance <input type="text" value="Enter code"/> Apply	Order Summary Item(s) Subtotal: \$45.53 Shipping & Handling: \$4.98 Free Shipping: -\$4.98 Total before tax: \$45.53 Estimated tax to be collected: \$3.18 Grand Total: \$48.71
---	---	--	---

Arriving Fri, Mar 30 - Wed, Mar 31 by 8pm
 Not yet shipped



Blue Buffalo Dry Food for Small Breed Dogs, Chicken and Brown Rice Recipe,...


by Blue Buffalo

\$17.46

Condition: New

Add gift option

Buy it Again



Kibbles 'n Bits American Grill Grilled USA Beef Steak Flavor Dry Dog Food,...

by Kibbles 'n Bits

\$28.07

Condition: New

Add gift option

Buy it Again

Track package
Cancel items
Archive Order
Shipping speed
 FREE Shipping
Change
Shipping preference
 Group my items into as few shipments as possible

Figure 4. Order Detail Mock-Up Screen

13. Order Status

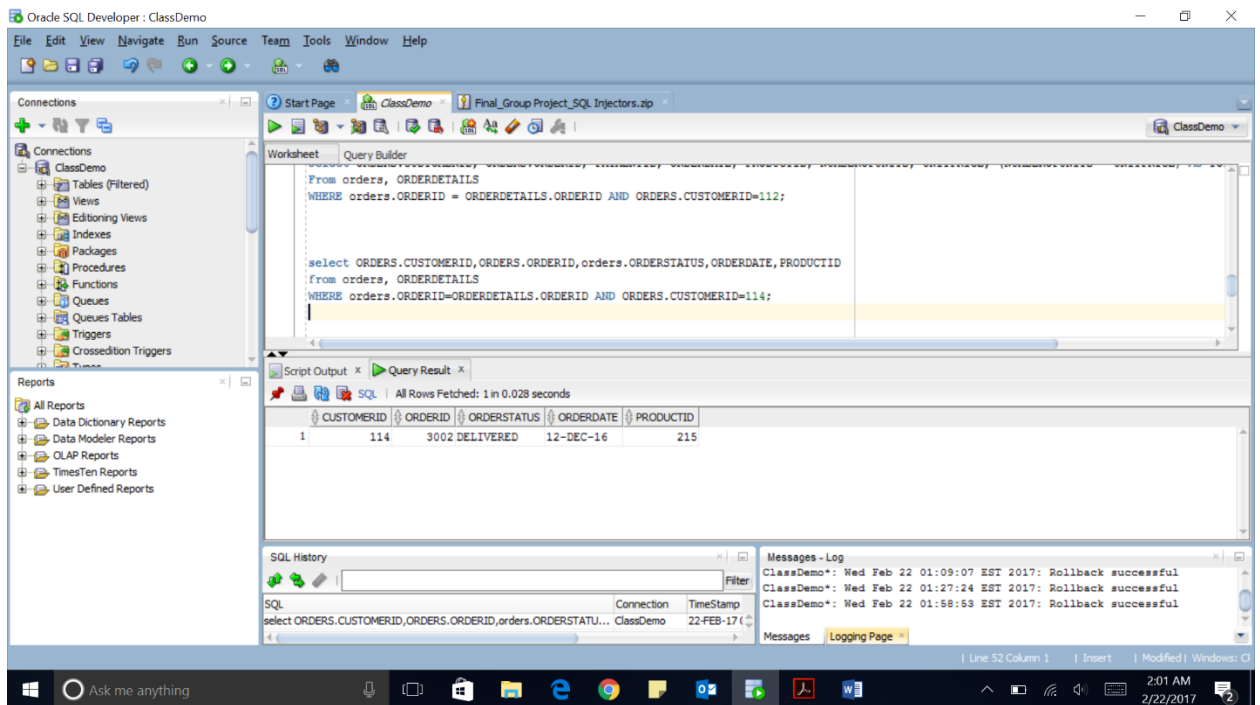
Fetch the ORDERSTATUS for any order of a particular customer.

If the record is not found, customer can sign up and create account.

SQL Statement –

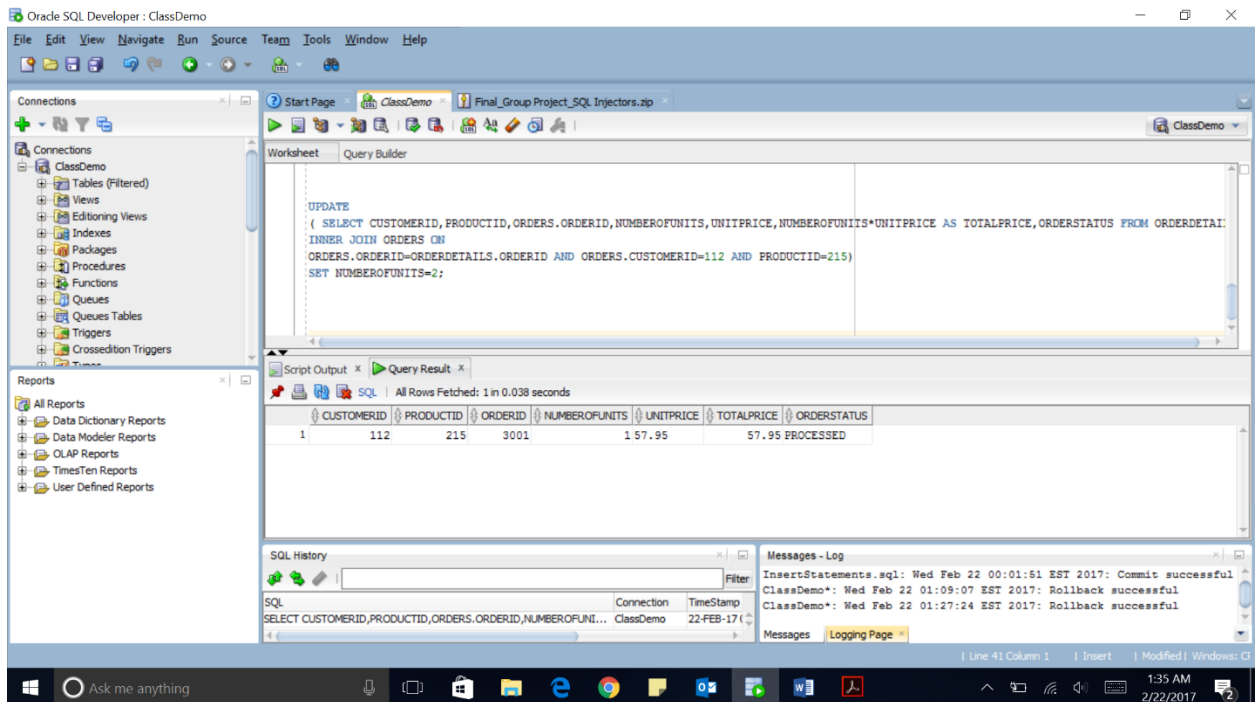
```
select ORDERS.CUSTOMERID,ORDERS.ORDERID,orders.ORDERSTATUS,ORDERDATE,PRODUCTID
from orders, ORDERDETAILS
WHERE orders.ORDERID=ORDERDETAILS.ORDERID AND ORDERS.CUSTOMERID=114;
```

Table Name	Display Fields
ORDERS,ORDERDETAILS	CUSTOMERID
	ORDERID
	ORDERSTATUS
	PRODUCTID
	ORDERDATE



14. Customer can update Order –

Before modification:

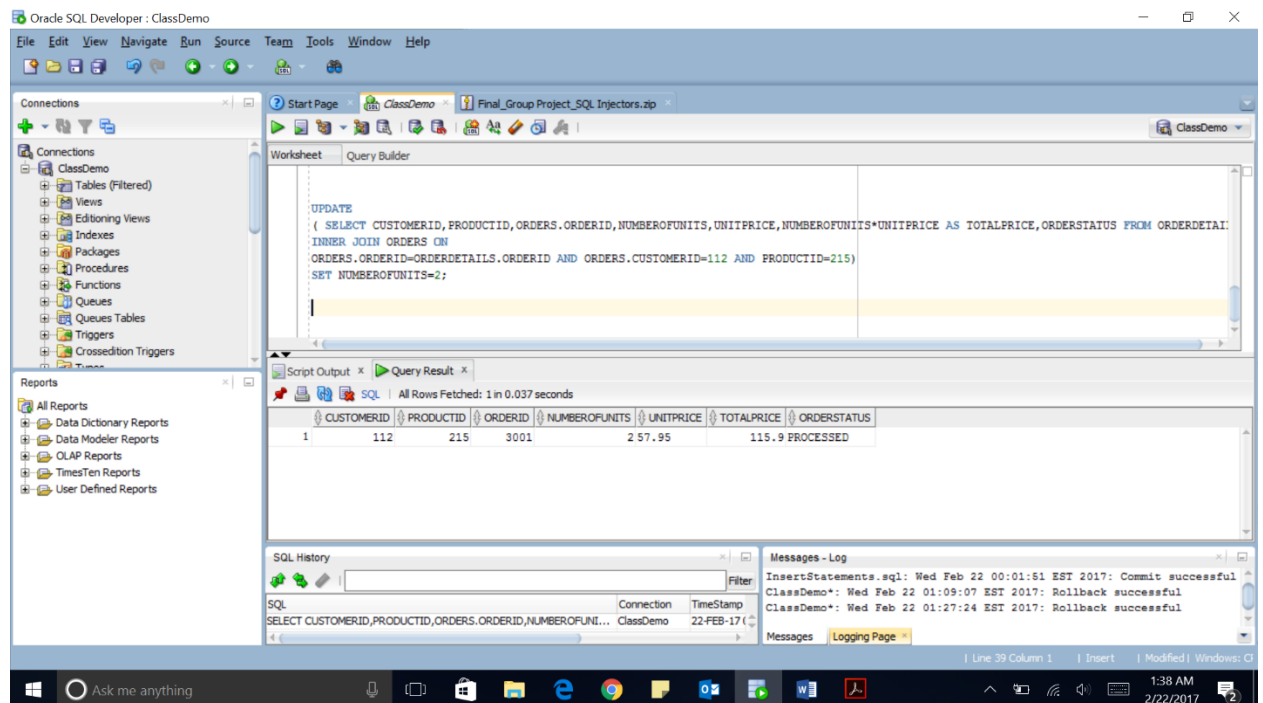


Customer can Update his order- change the numberofunits to 2 instead of 1.

UPDATE


```
( SELECT
CUSTOMERID,PRODUCTID,ORDERS.ORDERID,NUMBEROFUNITS,UNITPRICE,NUMBEROFUNITS*U
NITPRICE AS TOTALPRICE,ORDERSTATUS FROM ORDERDETAILS
INNER JOIN ORDERS ON
ORDERS.ORDERID=ORDERDETAILS.ORDERID AND ORDERS.CUSTOMERID=112 AND
PRODUCTID=215)
SET NUMBEROFUNITS=2;
Commit;
```

Table Name	Update Fields
ORDER ORDER DETAILS	NumberOfUnits



15. Customer can view all the Product reviews written by him/her

When the customer views their account, they will be able to view the Product reviews written by them. We will be displaying their product reviews for the products they have purchased and haven't purchased separately.




We will be viewing Product reviews for customer with email id ram@gmail.com

Worksheet

Query Builder

SELECT * FROM CUSTOMER WHERE EMAIL = 'ram@gmail.com';

Query Result x Query Result 1 x

    SQL | All Rows Fetched: 1 in 0.184 seconds

	CUSTOMERID	NAME	EMAIL	STREET	CITY	ZIPCODE	STATE	PASSWORD
1	111	Ram	ram@gmail.com	265 Buckhead Atlanta		30338	GA	Y8RAM1

Product reviews by the customer for the products they have purchased.

Tables involved:

Table Name	Display Fields
CUSTOMERPRODUCT	CUSTOMERPRODUCTID, CUSTOMERID, PRODUCTID, RATING, HEADLINE, REVIEW
ORDERS	ORDERID
PRODUCT	PRODUCTNAME
ORDERDETAILS	-

```

SELECT P.CUSTOMERPRODUCTID, P.CUSTOMERID, P.PRODUCTID, PR.PRODUCTNAME,
O.ORDERID, P.RATING, P.HEADLINE, P.REVIEW
FROM ORDERDETAILS D INNER JOIN CUSTOMERPRODUCT P ON P.PRODUCTID = D.PRODUCTID
INNER JOIN ORDERS O ON O.ORDERID = D.ORDERID
INNER JOIN PRODUCT PR ON D.PRODUCTID = PR.PRODUCTID
WHERE P.CUSTOMERID = O.CUSTOMERID and P.CUSTOMERID = 111;

```

```

SELECT P.CUSTOMERPRODUCTID, P.CUSTOMERID, P.PRODUCTID, PR.PRODUCTNAME, O.ORDERID, P.RATING, P.HEADLINE, P.REVIEW
FROM ORDERDETAILS D INNER JOIN CUSTOMERPRODUCT P ON P.PRODUCTID = D.PRODUCTID
INNER JOIN ORDERS O ON O.ORDERID = D.ORDERID
INNER JOIN PRODUCT PR ON D.PRODUCTID = PR.PRODUCTID
WHERE P.CUSTOMERID = O.CUSTOMERID and P.CUSTOMERID = 111;

```

Script Output x Query Result x Query Result 1 x

SQL | All Rows Fetched: 2 in 0.08 seconds

CUSTOMERPRODUCTID	CUSTOMERID	PRODUCTID	PRODUCTNAME	ORDERID	RATING	HEADLINE
1	100	111	212 Ideal Balance Large Breed Natural Chicken and Brown Rice Recipe Dry Dog Food	3003	5	We love t
2	107	111	214 Wellness CORE Air Dried Grain Free Natural Dry Dog Food 2-Pound Bag	3003	2	No go for

Product reviews by the customer for the products they haven't purchased.

Tables Involved:

Table Name	Display Fields
CUSTOMERPRODUCT	CUSTOMERPRODUCTID, CUSTOMERID, PRODUCTID, RATING, HEADLINE, REVIEW
ORDERS	-

PRODUCT	PRODUCTNAME
ORDERDETAILS	-

```

SELECT P.CUSTOMERPRODUCTID, P.CUSTOMERID, P.PRODUCTID, PR.PRODUCTNAME,
P.RATING, P.HEADLINE, P.REVIEW
FROM CUSTOMERPRODUCT P INNER JOIN PRODUCT PR ON PR.PRODUCTID = P.PRODUCTID
WHERE P.CUSTOMERID = 111 and
P.CUSTOMERPRODUCTID NOT IN (SELECT P.CUSTOMERPRODUCTID FROM ORDERDETAILS D
INNER JOIN CUSTOMERPRODUCT P ON P.PRODUCTID = D.PRODUCTID
INNER JOIN ORDERS O ON O.ORDERID = D.ORDERID
WHERE P.CUSTOMERID = O.CUSTOMERID);

```

```

SELECT P.CUSTOMERPRODUCTID, P.CUSTOMERID, P.PRODUCTID, PR.PRODUCTNAME, P.RATING, P.HEADLINE, P.REVIEW
FROM CUSTOMERPRODUCT P INNER JOIN PRODUCT PR ON PR.PRODUCTID = P.PRODUCTID
WHERE P.CUSTOMERID = 111 and
P.CUSTOMERPRODUCTID NOT IN (SELECT P.CUSTOMERPRODUCTID FROM ORDERDETAILS D INNER JOIN CUSTOMERPRODUCT P ON P.PRODUCTID = D.PRODUCTID
INNER JOIN ORDERS O ON O.ORDERID = D.ORDERID
WHERE P.CUSTOMERID = O.CUSTOMERID);

```

Script Output x Query Result x Query Result 1 x

SQL | All Rows Fetched: 1 in 0.148 seconds

	CUSTOMERPRODUCTID	CUSTOMERID	PRODUCTID	PRODUCTNAME	RATING	HEADLINE	REVIEW
1	102	111	215	Taste of the Wild Dry Dog Food	5	My dogs are wild about this food !!!	My dogs like this better th