# Grocery Ordering Application

A grocery ordering application that allows business owners to receive online orders from customers. The application utilizes Oracle Database for storing, managing, and accessing diverse types of data, including customer information, orders, grocery items and delivery information.
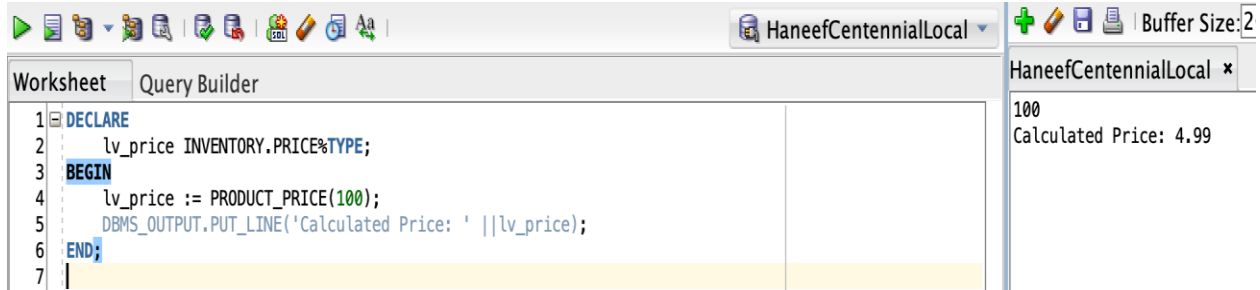
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ERD:
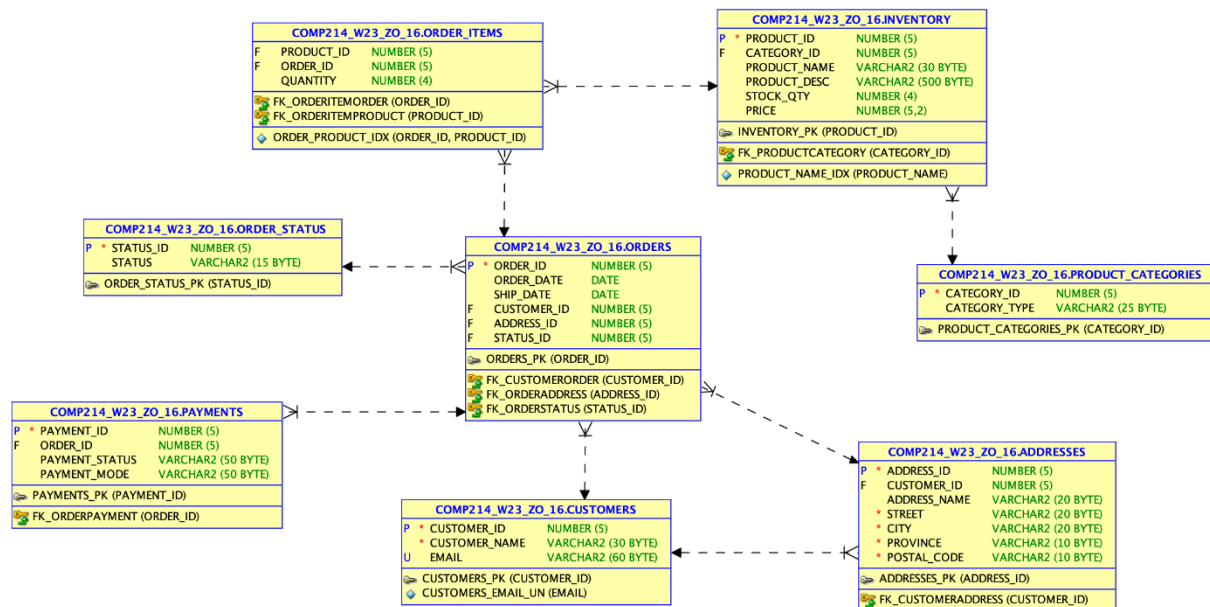
SCREENSHOTS:

- TESTING CODE FOR THE FUNCTION PRODUCT PRICE

```
1 ☐ DECLARE
2       lv_price INVENTORY.PRICE%TYPE;
3   BEGIN
4       lv_price := PRODUCT_PRICE(100);
5       DBMS_OUTPUT.PUT_LINE('Calculated Price: ' ||lv_price);
6   END;
7 |
```
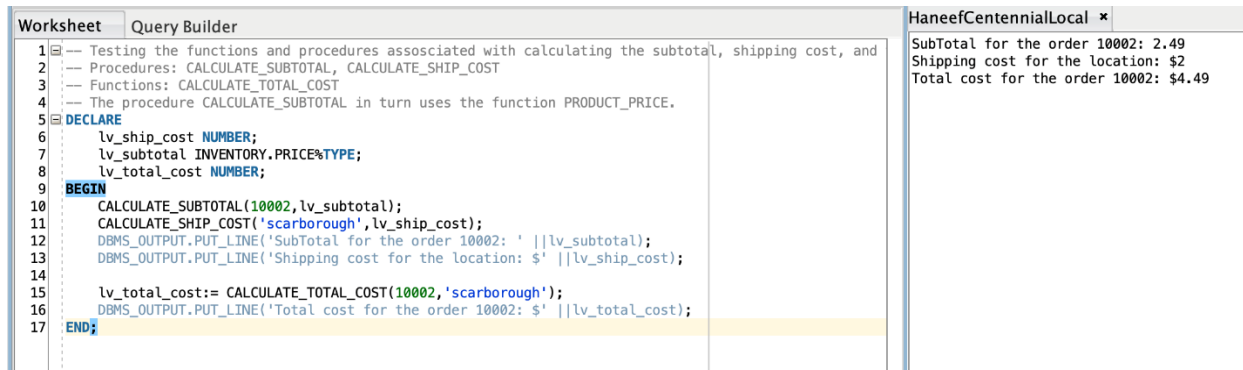
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```
100
Calculated Price: 4.99
```

- TESTING THE FUNCTIONS AND PROCEDURES ASSOCIATED WITH CALCULATING THE SUBTOTAL, SHIPPING COST, AND TOTAL COST.

```
1 -- Testing the functions and procedures assosciated with calculating the subtotal, shipping cost, and
2 -- Procedures: CALCULATE_SUBTOTAL, CALCULATE_SHIP_COST
3 -- Functions: CALCULATE_TOTAL_COST
4 -- The procedure CALCULATE_SUBTOTAL in turn uses the function PRODUCT_PRICE.
5 ☐ DECLARE
6       lv_ship_cost NUMBER;
7       lv_subtotal INVENTORY.PRICE%TYPE;
8       lv_total_cost NUMBER;
9   BEGIN
10       CALCULATE_SUBTOTAL(10002,lv_subtotal);
11       CALCULATE_SHIP_COST('scarborough',lv_ship_cost);
12       DBMS_OUTPUT.PUT_LINE('SubTotal for the order 10002: ' ||lv_subtotal);
13       DBMS_OUTPUT.PUT_LINE('Shipping cost for the location: $' ||lv_ship_cost);
14
15       lv_total_cost:= CALCULATE_TOTAL_COST(10002,'scarborough');
16       DBMS_OUTPUT.PUT_LINE('Total cost for the order 10002: $' ||lv_total_cost);
17   END;
```
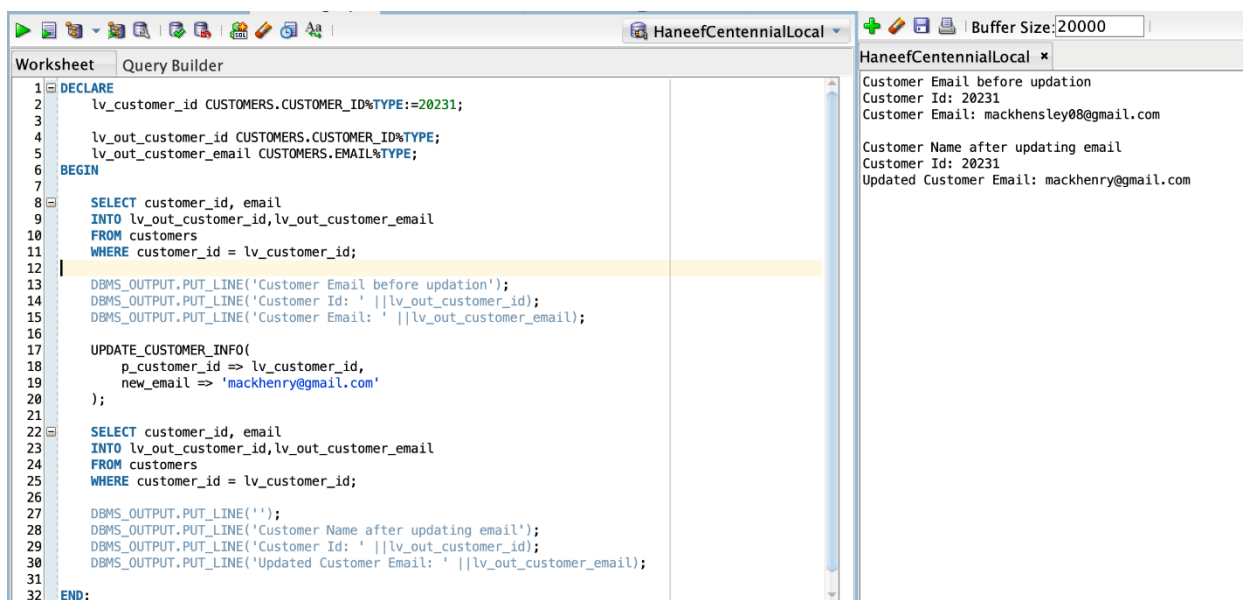
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```
SubTotal for the order 10002: 2.49
Shipping cost for the location: $2
Total cost for the order 10002: $4.49
```

- TESTING CODE FOR THE PROCEDURE UPDATE_CUSTOMER_INFO

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```
1 ☐ DECLARE
2       lv_customer_id CUSTOMERS.CUSTOMER_ID%TYPE:=20231;
3
4       lv_out_customer_id CUSTOMERS.CUSTOMER_ID%TYPE;
5       lv_out_customer_email CUSTOMERS.EMAIL%TYPE;
6   BEGIN
7
8       SELECT customer_id, email
9       INTO lv_out_customer_id,lv_out_customer_email
10      FROM customers
11      WHERE customer_id = lv_customer_id;
12  |
13      DBMS_OUTPUT.PUT_LINE('Customer Email before updation');
14      DBMS_OUTPUT.PUT_LINE('Customer Id: ' ||lv_out_customer_id);
15      DBMS_OUTPUT.PUT_LINE('Customer Email: ' ||lv_out_customer_email);
16
17      UPDATE_CUSTOMER_INFO(
18          p_customer_id => lv_customer_id,
19          new_email => 'mackhenry@gmail.com'
20      );
21
22      SELECT customer_id, email
23      INTO lv_out_customer_id,lv_out_customer_email
24      FROM customers
25      WHERE customer_id = lv_customer_id;
26
27      DBMS_OUTPUT.PUT_LINE('');
28      DBMS_OUTPUT.PUT_LINE('Customer Name after updating email');
29      DBMS_OUTPUT.PUT_LINE('Customer Id: ' ||lv_out_customer_id);
30      DBMS_OUTPUT.PUT_LINE('Updated Customer Email: ' ||lv_out_customer_email);
31
32   END;
```
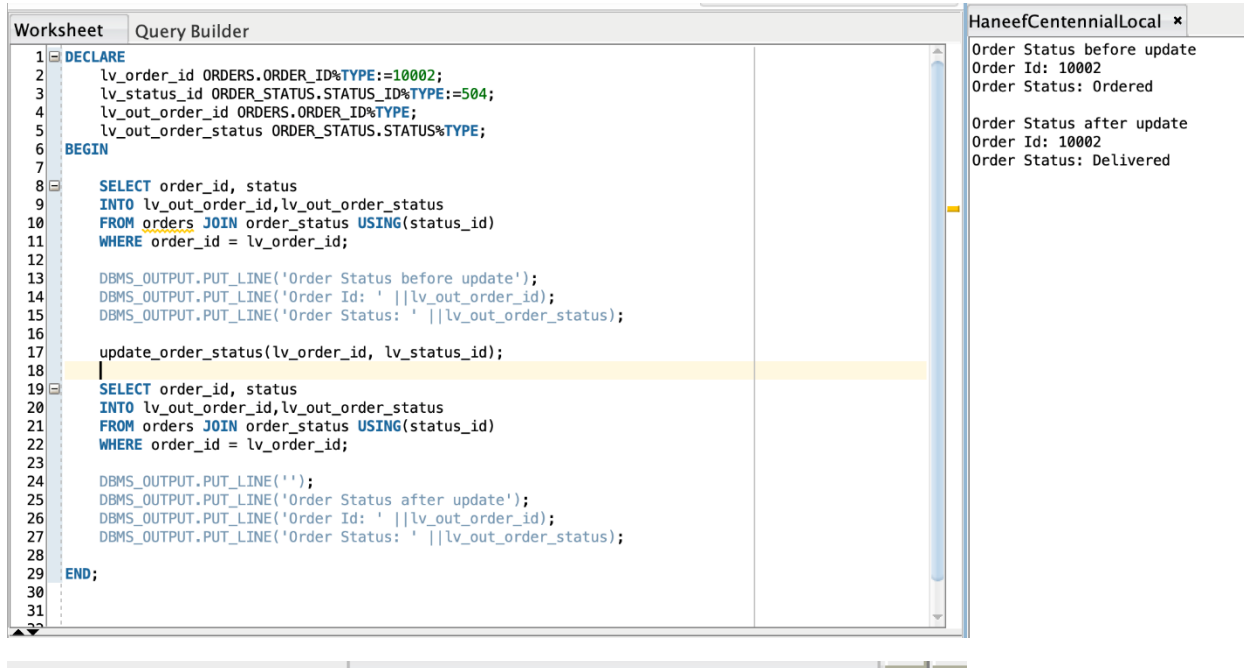
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```
Customer Email before updation
Customer Id: 20231
Customer Email: mackhensley08@gmail.com

Customer Name after updating email
Customer Id: 20231
Updated Customer Email: mackhenry@gmail.com
```

- Testing Code For The Procedure Update_Order_Status

```
1  DECLARE
2      lv_order_id ORDERS.ORDER_ID%TYPE:=10002;
3      lv_status_id ORDER_STATUS.STATUS_ID%TYPE:=504;
4      lv_out_order_id ORDERS.ORDER_ID%TYPE;
5      lv_out_order_status ORDER_STATUS.STATUS%TYPE;
6  BEGIN
7
8      SELECT order_id, status
9      INTO lv_out_order_id,lv_out_order_status
10     FROM orders JOIN order_status USING(status_id)
11     WHERE order_id = lv_order_id;
12
13     DBMS_OUTPUT.PUT_LINE('Order Status before update');
14     DBMS_OUTPUT.PUT_LINE('Order Id: ' ||lv_out_order_id);
15     DBMS_OUTPUT.PUT_LINE('Order Status: ' ||lv_out_order_status);
16
17     update_order_status(lv_order_id, lv_status_id);
18
19     SELECT order_id, status
20     INTO lv_out_order_id,lv_out_order_status
21     FROM orders JOIN order_status USING(status_id)
22     WHERE order_id = lv_order_id;
23
24     DBMS_OUTPUT.PUT_LINE('');
25     DBMS_OUTPUT.PUT_LINE('Order Status after update');
26     DBMS_OUTPUT.PUT_LINE('Order Id: ' ||lv_out_order_id);
27     DBMS_OUTPUT.PUT_LINE('Order Status: ' ||lv_out_order_status);
28
29  END;
30
31
```

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```
Order Status before update
Order Id: 10002
Order Status: Ordered

Order Status after update
Order Id: 10002
Order Status: Delivered
```

Order Status before update
Order Id: 10001
Order Status: Ordered

ORD_Delivered_TRG Fired

Order Status after update
Order Id: 10001
Order Status: Delivered

- Testing code for the trigger ORD_DELIVERED_TRG


```
BEGIN
    UPDATE ORDERS
    SET ORDERS.STATUS_ID = 503
    WHERE ORDERS.ORDER_ID = 10003;
END;
```

Script Output ×

Task completed in 0.174 seconds

PL/SQL procedure successfully completed.

ORD_CANCEL_TRG Fired

3)	1	Fanta	Refreshing orange-flavored soft drink.	293	4.99
4)	1	Pepsi	Classic cola that is known for its bold and refreshing taste.	390	4.99
5)	1	Minute Maid Orange Juice	Made from 100% real orange juice.	960	3.49
6)	1	Lipton Lemon Iced Tea	Made with real tea leaves and no artificial flavors.	405	2.49
7)	2	Dempsters	100% whole grain bread is made from flour that is entirely made from the whole grain kernel.	176	2.49
8)	2	Country Harvest	14-grain bread is a type of bread made from a variety of grains and seeds.	107	2.99
9)	2	Wonder	White Bread made from refined flour, resulting in a softer and lighter texture.	156	2.49
10)	2	Natural Bakery	Canadian Rye bread is a traditional type of bread made from rye flour.	186	3.99

- Testing code for the trigger UPDATE_ORDER_STATUS


```
BEGIN
    UPDATE ORDERS
    SET ORDERS.STATUS_ID = 502
    WHERE ORDERS.ORDER_ID = 10004;
END;
```

Script Output ×

Task completed in 0.104 seconds

PL/SQL procedure successfully completed.

ORD_Confirmed_TRG Fired

Columns | Data | Model | Constraints | Grants | Statistics | Triggers | Flashback | Dependencies | Details | Partitions | Indexes | SQL

Sort.. | Filter:

Actions...

	CATEGORY_ID	PRODUCT_NAME	PRODUCT_DESC	STOCK_QTY	PRICE
1)	1	Coca-cola	The worlds most popular soft drink, known for its iconic taste and refreshing bubbles.	574	4.99
2)	1	Sprite	Lemon-lime flavored soft drink that is known for its refreshing taste.	102	4.99
3)	1	Fanta	Refreshing orange-flavored soft drink.	293	4.99
4)	1	Pepsi	Classic cola that is known for its bold and refreshing taste.	390	4.99
5)	1	Minute Maid Orange Juice	Made from 100% real orange juice.	960	3.49
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9)	2	Wonder	White Bread made from refined flour, resulting in a softer and lighter texture.	155	2.49
10)	2	Natural Bakery	Canadian Rye bread is a traditional type of bread made from rye flour.	186	3.99
11)	3	SPAM	Made with high-quality pork, ham, salt, and a blend of savory spices.	166	3.49
12)	3	Spicy Chili Con Carne	Made with high-quality ground beef, kidney beans, and a blend of chili spices.	414	2.99
13)	3	Maple Baked Beans	Classic Canadian baked beans slow-cooked with real maple syrup for a sweet and savory taste.	32	1.49

User Interface Mockups

LANDING PAGE

SIGN UP PAGE

LOGIN PAGE

WELCOME BACK PAGE

ORDER DASHBOARD

SEARCH RESULTS

BASKET PAGE

ORDER CONFIRMATION PAGE

UPDATE USER INFO PAGE