Term Project – Final Deliverable

Team Members: Dhiraj Pakhrin, Satkrit Bhattarai

1.

Business Rule

There is no change in our current business rules from the previous one. The updated business rules are mentioned below:

• One seller can sell multiple products, but one product is associated with only one seller.

• One product can have multiple inventory records, but each inventory record corresponds to only one product.

• One consumer can place zero or multiple orders, but one order is associated with only one consumer.

• One order can contain multiple products, and each product can be present in multiple orders.

• One order can have one shipment, and one shipment is associated with one order.

• One Amazon warehouse contains multiple products.

• One shipment originates from one Amazon warehouse, and one Amazon warehouse can have multiple shipments.

2.

Conceptual ERD

The changes that I have made to the business rule are as follows:

1. Added “product_id” as an attribute to the order table
2. Added “customer_id” as an attribute to the order table
3. Added “order_qty” as an attribute to the order table
4. Added “order_id” as a foreign key to the shipment table

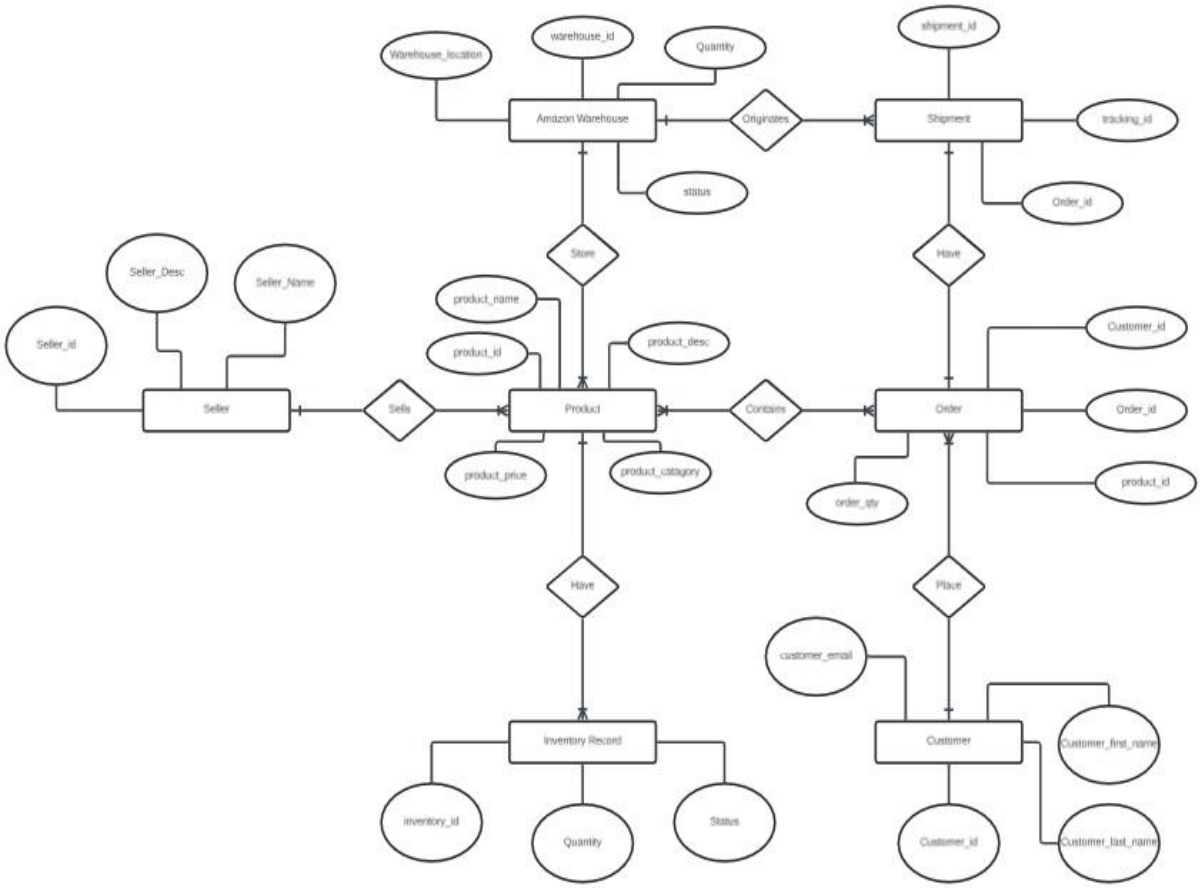


Fig: Conceptual ER-Diagram of our new business rule

3.

Logical ERD

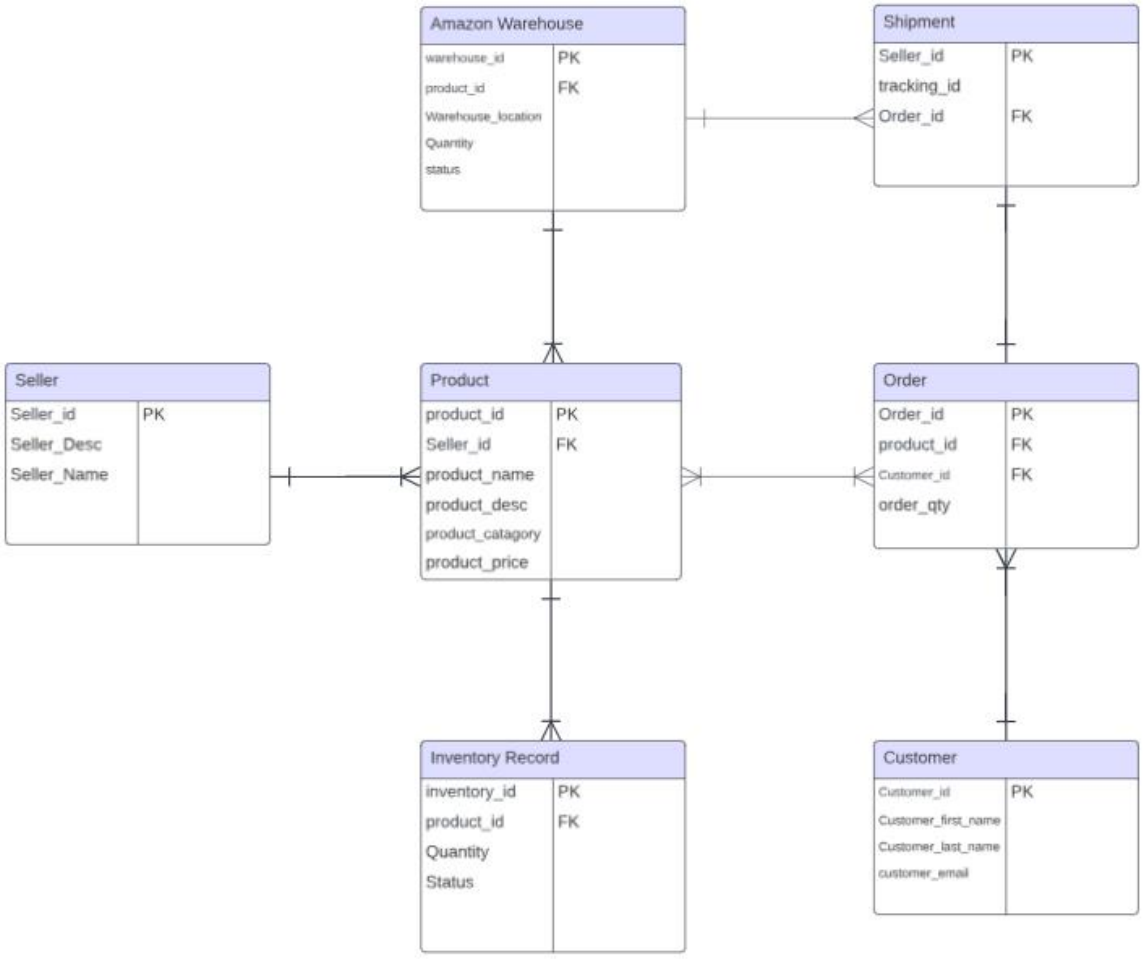


Fig: Conceptual ER-Diagram of New Business Rule

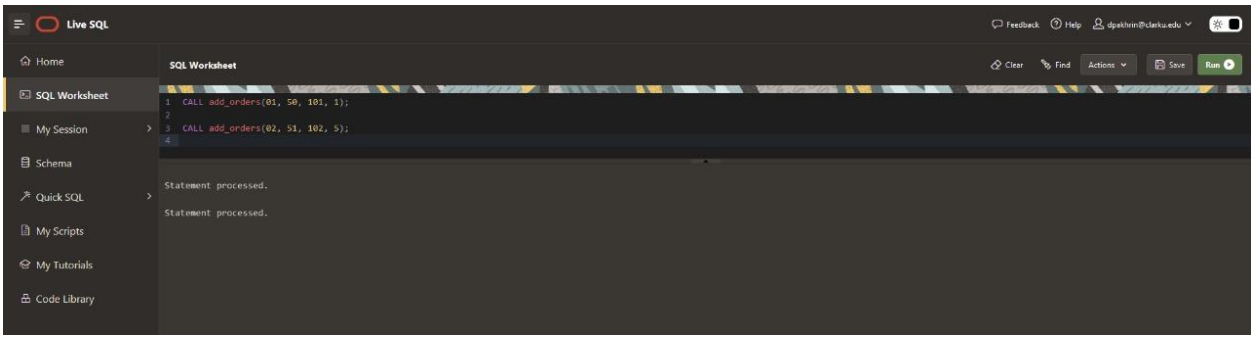
4.

Aspect 4

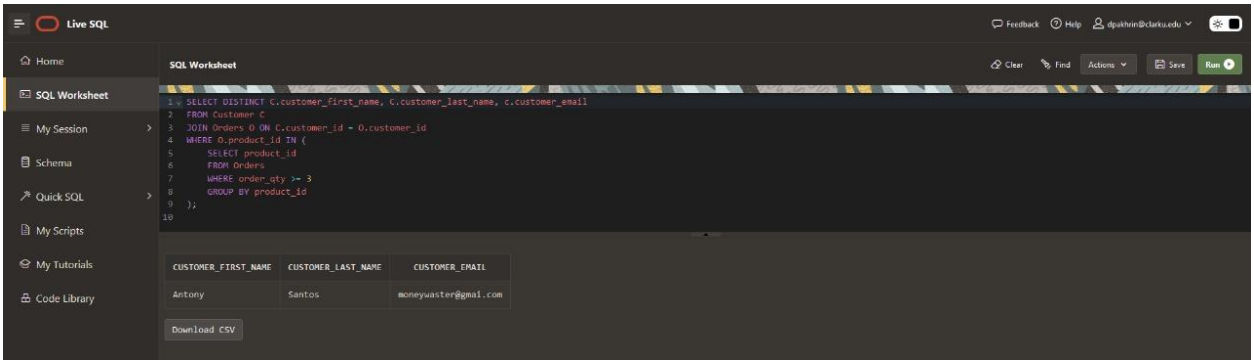
a. Creation of tables and constraints

b. Creation of reusable stored procedure

c. Use of the stored procedure



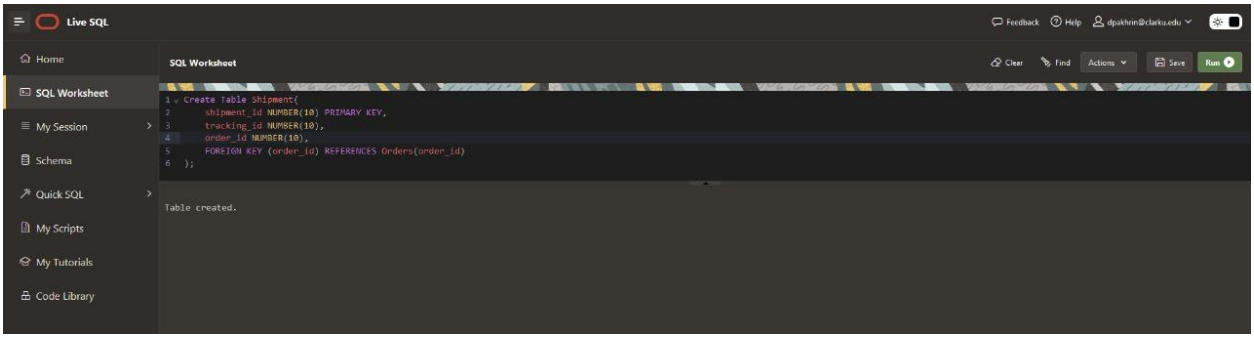
d. SQL query



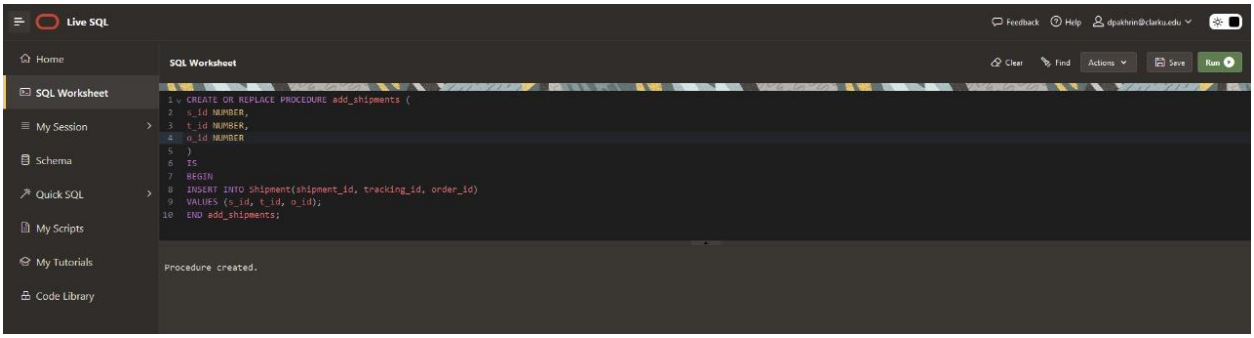
Note: There is no address found for this deliverable because we do not have that attribute for the customer.

Aspect 5

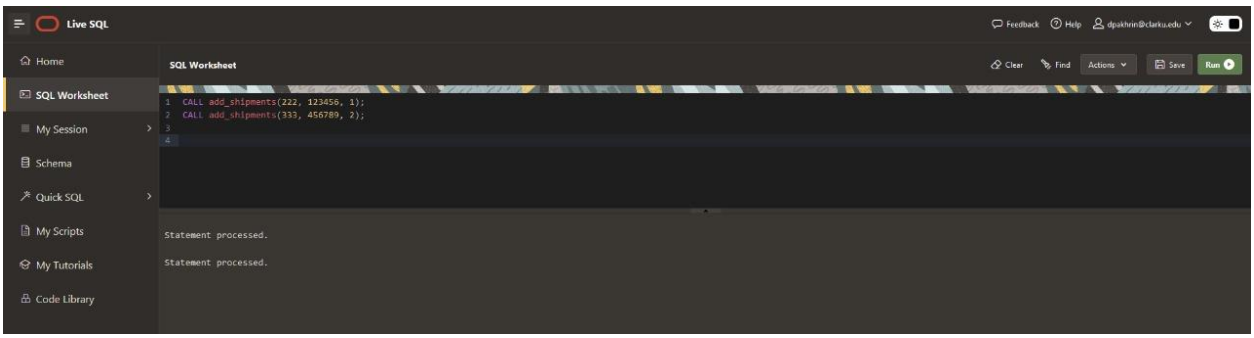
a. Creation of tables and constraints



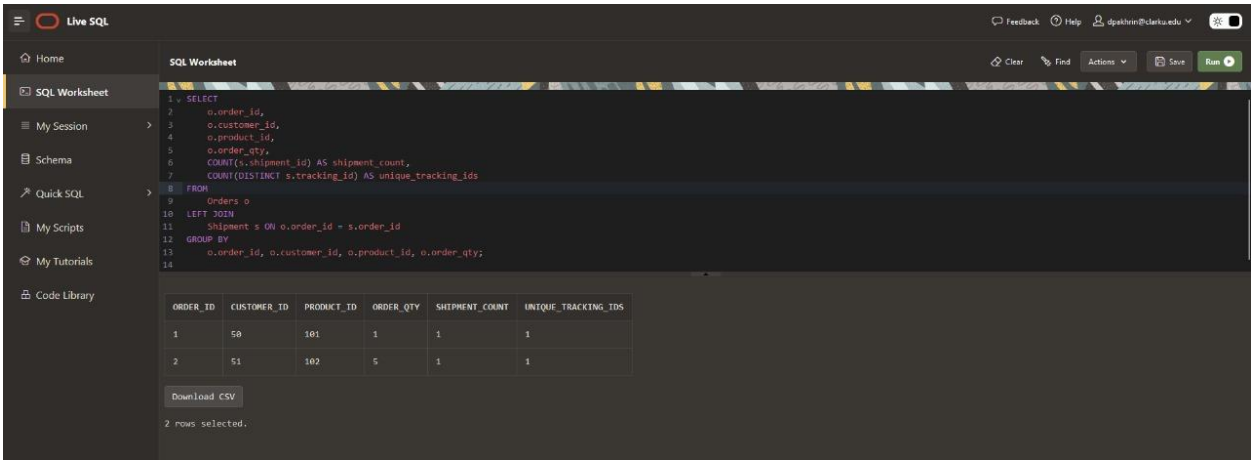
b. Creation of reusable stored procedure



c. Use of the stored procedure



d. SQL query


Live SQL
Feedback
Help
dpakhrin@clarku.edu
Home
SQL Worksheet
My Session
Schema
Quick SQL
My Scripts
My Tutorials
Code Library
SQL Worksheet
Clear
Find
Actions
Save
Run
1 SELECT
2 o.order_id,
3 o.customer_id,
4 o.product_id,
5 o.order_qty,
6 COUNT(s.shipment_id) AS shipment_count,
7 COUNT(DISTINCT s.tracking_id) AS unique_tracking_ids
8 FROM
9 Orders o
10 LEFT JOIN
11 Shipment s ON o.order_id = s.order_id
12 GROUP BY
13 o.order_id, o.customer_id, o.product_id, o.order_qty;
14
ORDER_ID
CUSTOMER_ID
PRODUCT_ID
ORDER_QTY
SHIPMENT_COUNT
UNIQUE_TRACKING_IDS
1
50
101
1
1
1
2
51
102
5
1
1
Download CSV
2 rows selected.