Beetle Prime Database Design

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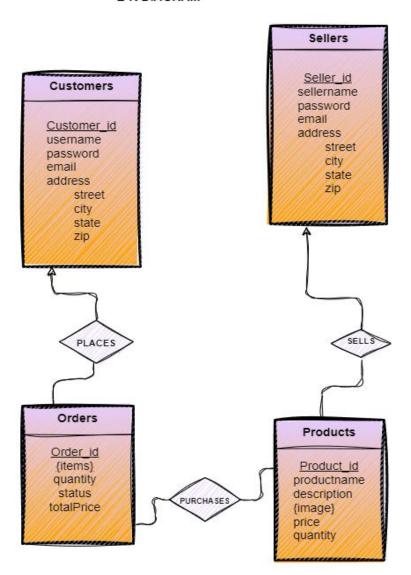
Tram Le

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1. E-R Diagram:

BEETLE PRIME DATABASE DESIGN

E-R DIAGRAM



2. Database Schema:

```
Customers (Customer ID, Username, Password, Email, Street, City, State, Zip Code)
Products (Product ID, Seller ID, Name, Description, Price, Product Quantity)
Orders (Order_num, Customer_ID, Order_Quantity, Order Status, Price_Total)
Sellers (Seller_ID, Name, Password, Email, Street, City, State, Zip_Code)
Purchases (Order_num, Product_ID)
Product_Images (Product_ID, Image)
Order_Items (Order_num, Item)
   3. Queries for Business Processes:
Customer Account Creation:
      INSERT INTO Customers
      VALUES ('1', 'theBobster1', 'password', 'email@gmail.com', '1234
      Street', 'Kent', 'Ohio', 44242);
Customer Account Update:
      UPDATE Customer
      SET Password = 'newPassword'
      WHERE Customer ID = '1';
Load product listings:
      SELECT Name, Description, Price
      FROM Products;
Add new product listing:
      INSERT INTO Products
      VALUES ('1', '1', 'product name', 'product description', '19.99',
      '3');
Search bar:
      SELECT Name, Description, Price
      FROM Products
      WHERE Name LIKE '%userinputproductname%';
```

```
List items in cart (order items):
      SELECT *
      FROM Orders
     WHERE Order num = 'currentOrder num';
Delete/Remove Product After Run out of Inventory:
      DELETE FROM Products
     WHERE Product_Quantity = 0;
Product Quantity Update:
UPDATE Products
      SET Product Quantity = Product Quantity-1
      WHERE Product ID = '1';
Calculation of Product total on specific order:
UPDATE Orders
SET Price_Total = (SELECT SUM(Price * Order_Quantity)
      FROM Orders NATURAL JOIN Purchases NATURAL JOIN Products
     WHERE Order num = 'Specific Order Num');
Update Order Status:
UPDATE Orders
SET Order_Status = 'Shipped'
WHERE Order_num = '1';
```