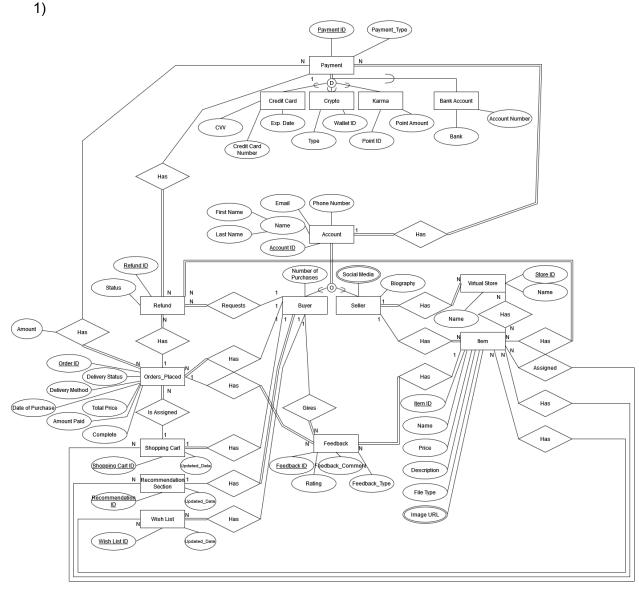
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2)
Payment (<u>Payment_ID</u>, Payment_Type, Account_ID)
Foreign Key Account_ID references Account

Credit_Card (<u>Payment_ID</u>, CVV, Credit_Card_Number, Exp_Date)
Foreign key **Payment_ID** references Payment

Crypto (<u>Payment ID</u>, Crypto_Type, Wallet_ID)
Foreign key **Payment_ID** references Payment

Karma (<u>Payment ID</u>, Point_ID, Point_Amount) Foreign key **Payment_ID** references Payment

```
Bank_Account (Payment ID, Bank, Account_Number)
Foreign key Payment_ID references Payment
Account (Account ID, First Name, Last Name, Email, Phone Number, BFlag,
Number of Purchases, Recommendation ID, SFlag, Biography)
Foreign key Recommendation ID references Recommendation Section
Social Media Accounts (Seller ID, Social Media)
Foreign key Seller_ID references Account
Refund (Refund ID, Payment ID, Status, Order ID, Buyer ID)
Foreign key Payment_ID references Payment
Foreign key Order_ID references Orders_Placed
Foreign key Buyer_ID references Account
Orders Placed (Order ID, Delivery Status, Delivery Method, Date of Purchase, Total Price,
Amount Paid, Completed, Buyer ID, Shopping Cart ID)
Foreign key Buyer_ID references Account
Foreign key Shopping_Cart ID references Shopping_Cart
Shopping Cart (Shopping Cart ID, Updated Date, Buyer ID)
Foreign key Buyer_ID references Account
Recommendation Section (Recommendation ID, Updated_Date, Buyer_ID)
Foreign key Buyer_ID references Account
Wish List (Wish List ID, Updated Date, Buyer ID)
Foreign key Buyer_ID references Account
Feedback (Feedback ID, Rating, Feedback Comment, Buyer ID, Item ID, Order ID)
Foreign Key Buyer ID references Account
Foreign Key Item_ID references Item
Foreign Key Order ID references Orders Placed
Item (Item ID, Item Name, Price, Description, File Type, Seller ID)
Foreign key Seller_ID references Account
Image_Url_Links (Item_ID, Image_URL)
Foreign key Item ID references Item
Virtual Store (Store ID, Name, Seller ID)
Foreign key Seller_ID references Account
```

```
Payment_Order (Payment_ID, Order_ID, Amount)
Foreign Key Payment_ID references Payment
Foreign Key Order_ID references Orders Placed
Item Wishlist (Item ID, Wish List ID)
Foreign Key Item_ID references Item
Foreign Key Wish List ID references Wish List
Item_Recommend (Item_ID, Recommendation_ID)
Foreign Key Item_ID references Item
Foreign Key Recommendation List ID references Recommendation Section
Item Shopping Cart (Item ID, Shopping Cart ID)
Foreign Key Item_ID references Item
Foreign Key Shopping Cart_ID references Shopping Cart
Item_Refund (Item_ID, Refund_ID)
Foreign Key Item_ID references Item
Foreign Key Refund_ID references Refund
Item VirtualStore (Item ID, Store ID)
Foreign Key Item_ID references Item
Foreign Key Store_ID references Virtual Store
3.
   a.
Item_VirtualStore
   b.
π Item_Name (
      \sigma Price < 10 (
             Item
)
   C.
π Item_Name, Date_of_Purchase (
      \sigma Buyer_ID = 1 (
             ((Order * Shopping Cart) * Item Shopping Cart) * Item
      )
*Buyer ID = 1, 1 is a placeholder for the given Buyer ID you want to search for
             d.
π First_Name, Last_Name, Item_Name (
```

```
\sigma Store ID = 1 (
       Account * (Order * (Shopping_Cart * (Item_Shopping_Cart * Item_VirtualStore)))
  )
*Store_ID = 1, 1 is a placeholder for the given Store_ID you want to search for
              E.
F MAX Number_of_Purchases (
       π Account_ID, Number_of_Purchases (
              Account
       )
)
              F.
\sigma count \leq 5 (
       Store ID F COUNT Item ID (
              VirtualStore_Item
       )
)
π item ID, max itemID, count itemID, add itemID price, FName, LName (
  item ID F MAX item ID, COUNT item ID, SUM ((COUNT item ID) * price) (
       Account * (Order * (Shopping_Cart * (Item_Shopping_Cart * Item)))
   )
)
Payment Type F COUNT Payment Type, SUM price (
       Order * (Payment_Order * Payment)
)
              i.
π First Name, Last Name, Email (
       F MAX Point Amount (
              Account * (Payment * Karma)
)
4.
   a. Create a list of people who requested refunds. The guery should include all buyers,
       including those who haven't requested a refund.
```

Account ⋈ AccountID=BuyerID (Refund)

b. Find the buyer who has left the most feedback.

c. Find the wishlist with the most number of items.

```
\label{eq:count_of_ltems} \begin{split} & \text{Count\_Of\_Items} \leftarrow \text{Wish\_List\_ID F COUNT Wish\_List\_ID (Item\_Wishlist)} \\ & \text{Wish\_List\_ID F MAX Wish\_List\_ID (Count\_Of\_Items)} \end{split}
```