Method for combining all E2/R diagrams

1. Identifying Common Points

Users:

All three platforms focus on user registration processes, roles (customer, seller, administrator), and user-specific information (name, email, account status).

Customer Functions:

- Placing orders, managing payment details, and tracking deliveries.
- Leaving reviews for products or sellers.
- Managing the product return process.

Seller Functions:

- Managing store information (name, address, business type).
- Adding and managing product details.

Administrator Functions:

Overall system management, resolving support tickets, and inventory management.

Shared Systems:

Support ticket management.

2. Identifying Differences

Amazon:

- Prime membership system and customer benefits.
- There is no favorites list because there is no favorite feature. Customers can create multiple shopping lists instead.
- Additional details are maintained for international products (country, customs fees, estimated delivery time).
- Users can leave reviews without placing an order.
- Direct messaging between customers and sellers.

Trendyol:

- Elite membership system and customer benefits.
- There is a list of favorites and you can also create collections.
- The ability to follow sellers.
- Customers can ask questions about a product to the seller.
- If they have placed an order they can leave reviews.

Hepsiburada:

- Premium membership system and customer benefits.
- There is a list of favorites and you can also create shopping lists.
- Products are categorized as local or international.
- The ability to follow sellers.
- Customers can ask questions about a product to the seller.
- Payments can be made via the Hepsipay wallet.
- If they have placed an order they can leave reviews.

3. COMBINED EER DIAGRAM

Customer Functions:

- Placing orders, managing payment details, and tracking deliveries.
- Leaving reviews for products or sellers.
- Managing the product return process.

Seller Functions:

- Managing store information (name, address, business type).
- Adding and managing product details.

Administrator Functions:

• Overall system management, resolving support tickets, and inventory management.

Shared Systems:

Support ticket management.

Amazon:

 Additional details are maintained for international products (country, customs fees, estimated delivery time).

Trendyol and Hepsiburada:

- There is a list of favorites and you can also create shopping lists.
- The ability to follow sellers.
- Customers can ask questions about a product to the seller.
- If they have placed an order they can leave reviews.

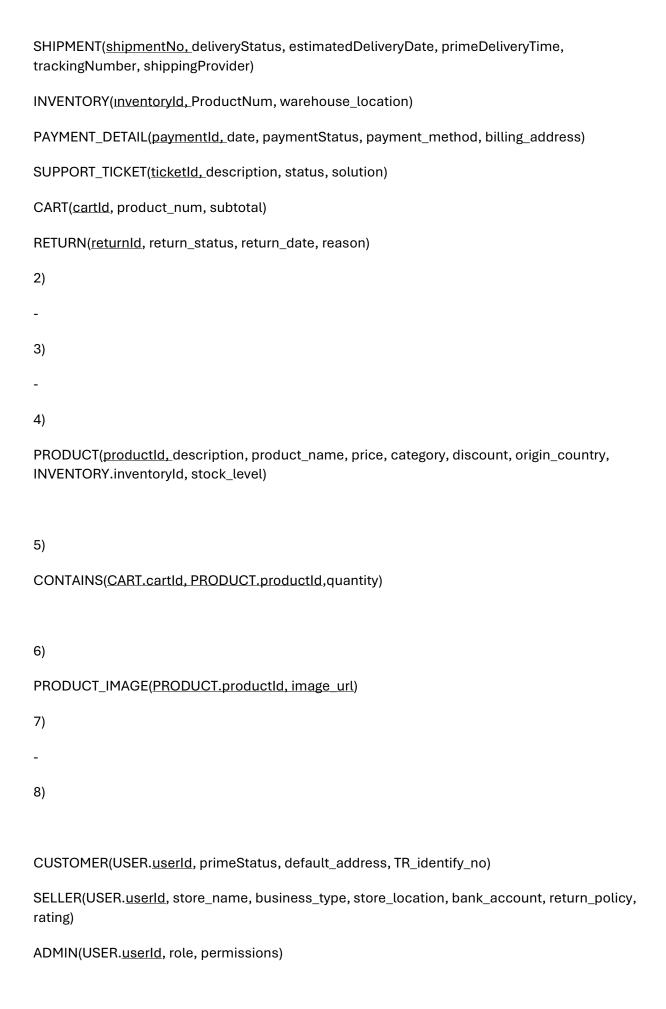
RELATION MODEL

1.ITERATION

1)

USER(userld, name, e_mail, address, password, account_status, registration_date)

PRODUCT(productId, description, product_name, price, category, discount, origin_country)



INTERNATIONAL_PRODUCT(<u>PRODUCT.productId</u>,customsFee, currency, customsStatus, ShippingTime)

9)

TICKET_OWNER(ticket_ownerld)

CUSTOMER(<u>userId</u>, primeStatus, default_address, TR_identify_no,TICKET_OWNER.ticket_ownerId)

SELLER(<u>userId</u>, store_name, business_type, store_location, bank_account, return_policy, rating, TICKET_OWNER.ticket_ownerId)

ITERATION 2:

1) -

2)

ORDER(<u>CUSTOMER.userId,PRODUCT.productId, order_date</u>, shipping_adress,order_status)

SHOPPING_LIST(CUSTOMER.userId, PRODUCT.productId, list_name, privacy, is_default)

PRODUCT_QUESTION(<u>CUSTOMER.userld,PRODUCT.productld, question_date</u>, question, like_count,)

3)

RETURN(<u>returnId</u>, return_status, return_date, reason, ORDER.(CUSTOMER.userId, PRODUCT.productId, order_date))

CUSTOMER(<u>user_id</u>, primeStatus, default_address, TR_identify_no,TICKET_OWNER.ticket_ownerld, CART.cartId)

4)

PRODUCT(<u>productId</u>, description, product_name, price, category, discount, origin_country, inventoryId, stock_level,SELLER.userId)

SHIPMENT(<u>shipmentNo</u>, deliveryStatus, estimatedDeliveryDate, primeDeliveryTime, trackingNumber, shippingProvider, SELLER.userId)

ORDER(<u>CUSTOMER.userId</u>, <u>PRODUCT.productId</u>, <u>order_date</u>, shipping_adress,order_status, SHIPMENT.shipment_no)

PAYMENT_DETAIL(<u>paymentId</u>, date, paymentStatus, payment_method, billing_address,CUSTOMER.userId)

PRODUCT_QUESTION(<u>CUSTOMER.userld,PRODUCT.productId, question_date</u> , question, like_count,SELLER.userId, answer, answer_date)
INVENTORY(<u>inventoryId</u> , ProductNum, warehouse_location, ADMIN.userId)
SUPPORT_TICKET(<u>ticketId</u> ,_description, status, solution, ADMIN.userId, TICKET_OWNER.ticket_ownerId)
5) FAVORITES(<u>CUSTOMER.userld</u> , <u>PRODUCT.productld</u>)
FOLLOW(CUSTOMER.userld,SELLER.userld)
6) ADDRESS(<u>USER.userld, adress</u>)
7) -
8) DIAMOND_CUSTOMER(<u>CUSTOMER.userld</u> , membershipStartDate, membershipFee, diamondShipping, diamondDiscount)
9) -
3.ITERATION:
1) -
1) - 2) REVIEW(ORDER.(CUSTOMER.userld, PRODUCT.productld, order_date), review_date, rating,
1) - 2) REVIEW(ORDER.(CUSTOMER.userld, PRODUCT.productld, order_date), review_date, rating, comment, like_count)
1) - 2) REVIEW(ORDER.(CUSTOMER.userld, PRODUCT.productld, order_date), review_date, rating, comment, like_count) 3) -
1) - 2) REVIEW(ORDER.(CUSTOMER.userld, PRODUCT.productld, order_date), review_date, rating, comment, like_count) 3) - 4) -
1) - 2) REVIEW(ORDER.(CUSTOMER.userld, PRODUCT.productld, order_date), review_date, rating, comment, like_count) 3) - 4) - 5) - 6) REVIEW_IMAGE(REVIEW.ORDER.(CUSTOMER.userld, PRODUCT.productld, order_date),
1) - 2) REVIEW(ORDER.(CUSTOMER.userld, PRODUCT.productld, order_date), review_date, rating, comment, like_count) 3) - 4) - 5) - 6) REVIEW_IMAGE(REVIEW.ORDER.(CUSTOMER.userld, PRODUCT.productld, order_date), review_date, image_url)