Ebay Project Report

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Table of Content

•	Introduction to Ebay	.3
	EER Diagram	
•	Functional Requirements	9
•	Relationships	.10
•	Normalization	.12
•	Tables	14
	Primary Keys	15
	o Foreign Keys	
•	SQL	17
•	Procedures	22
•	Triggers	24
•	Project Implementations and its Results	2



What Is eBay?

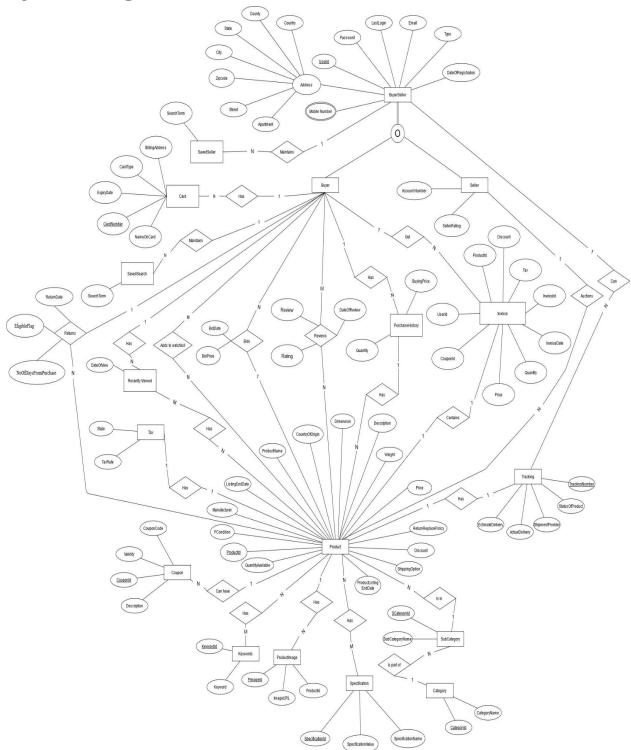
eBay is an American multinational e-commerce corporation based in San Jose, California, that facilitates consumer-to-consumer and business-to-consumer sales through its website. eBay was founded by Pierre Omidyar in 1995. eBay is a multibillion-dollar business with operations in about 32 countries, as of 2019. The company manages the eBay website, an online auction and shopping website in which people and businesses buy and sell a wide variety of goods and services worldwide. The website is free to use for buyers, but sellers are charged fees for listing items after a limited number of free listings, and again when those items are sold.

System Design:

eBay is an online marketplace where users can buy and sell goods.

Buyers may purchase fresh or used goods that are marketed by specific customers. Few items are also available at auctions. The website lists the total number of bids on the product as well as the highest bid at the moment. The user will bid according to the prices shown, and the winner is determined after the timer runs out.

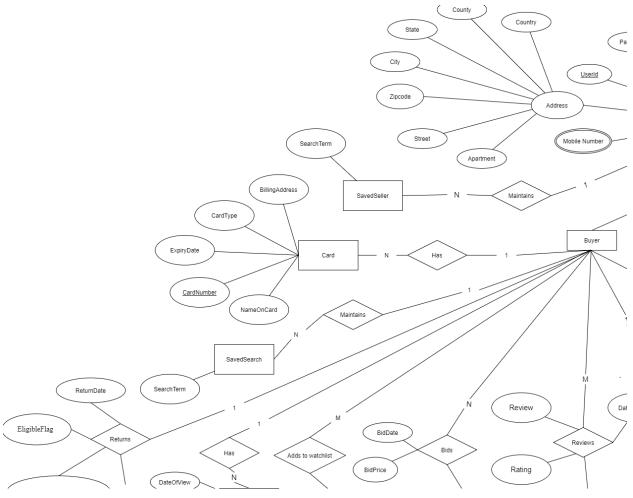
EBay EER Diagram



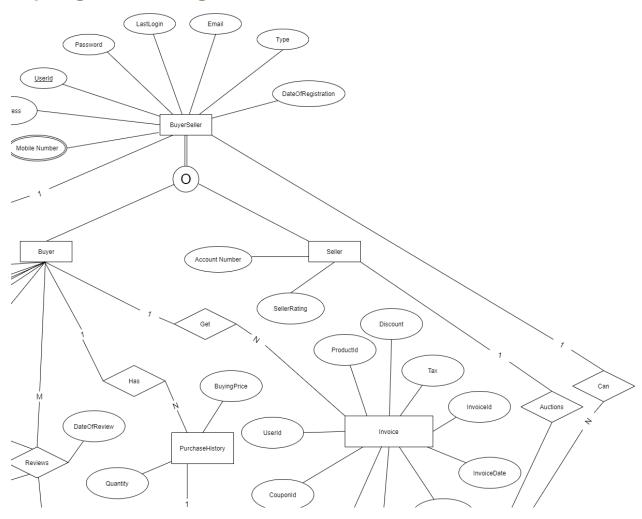
Link to EERD:

https://drive.google.com/file/d/1Nbjs60LtN11Ba0fciepqdn_HUV6xt9uz/view?usp=sharing

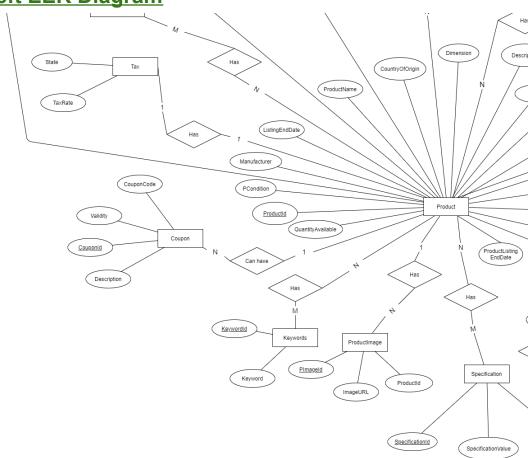
Top Left EER Diagram

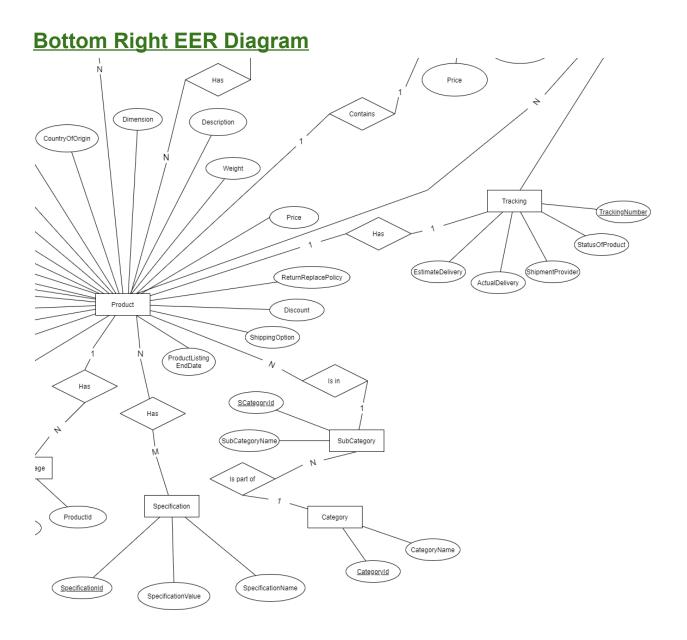


Top Right EER Diagram



Bottom Left EER Diagram





Functional Requirement:

- 1. **A user can register** A user can register as a buyer or a seller
- 2. **A buyer can bid on products** A user can bid and the highest bidder purchases the product.
- 3. A seller can add Listing end date A seller can add a date when the listing of product ends.
- 4. **A seller can add products** A seller can sell product with details about product.
- 5. A buyer can save a seller A buyer can save their favourite seller to get updates when they release a new product.
- 6. A buyer can give review A buyer can write reviews and give rating to a product.
- 7. A buyer can add products to Watch List A buyer can store the products which they plant to keep an eye on.
- 8. **A buyer can add card details** A buyer can save card details to have a smooth buying experience.
- 9. **A buyer can add products to a shopping** buyer add to the shopping cart the products they want to buy.
- 10. Product can have keywords to help user find product better keywords
- 11. **Product has images** to help user understand how product will look
- 12. **User have purchase history** A user can see what they have bought in past
- 13. A buyer can see recently viewed products A buyer can see what product they have opened in recent time.
- 14. A seller can allow a coupon on product A seller can have a coupon code to offer discount on certain products
- 15. A buyer can redeem a coupon A buyer can redeem a coupon on a selected product to get a discount.
- 16. A user can have multiple addresses A user can order products to different locations without adding an address every time.
- 17. A buyer can track the order A buyer can use tracking id to know the status of the product.
- 18. A product has specification A seller can choose subcategory and for that category list of possible specifications can be written for the product.

Relationships:

- 1. **BuyerSeller Product** = Each user can buy multiple products and each product can be sold and bought by multiple buyers. Cardinality is Many to Many.
- 2. **Address BuyerSeller =** Each buyer has multiple Address, while each Address is associated to 1 buyer. Cardinality is 1 to many.
- 3. **Zip Address** = Each address has 1 zip code, also each zip is associated with 1 Address. Cardinality is 1 to 1.
- 4. **Product Coupon** = Each product can have many coupons, while each coupon is associated with 1 product. Cardinality is 1 to Many.
- 5. **Product Specification** = Each Product can have multiple specifications. Also, each specification is associated with multiple products. Cardinality is many to many.
- 6. **Product SubCategory** = Each product has one SubCategory. And each SubCategory is associated with one Product. Cardinality is Many to 1.
- 7. **Specification SubCategory** = Each specification is associated to one SubCategory while each SubCategory can have multiple Specification. Cardinality is Many to 1.
- 8. **Product Invoice** = Each Product has one invoice and every invoice is associated with one product. Cardinality is 1 to 1.
- 9. **SubCategory Category =** Each SubCategory is associated with 1 Category and each category can have multiple sub categories. Cardinality is Many to one.
- 10. **Product Keyword =** Each product can have multiple keywords and every keyword is associated with one product. Cardinality is Many to one.
- 11. **BuyerSeller Watchlist** = Each buyer can add multiple products to watchlist. While, every product in watchlist is associated with multiple users. Cardinality is Many to Many.
- 12. **Product PurchaseHistory** = Each Product will have one purchase history and one purchase history detail will be associated with many products. Cardinality is 1 to many.
- 13. **Product Tracking** = Each product will have its own tracking details and every tracking record is associated with one product. Cardinality is 1 to 1.
- 14. **Product Watchlist** = Each product can be added once in watchlist and watchlist can have multiple products. Cardinality is Many to 1.
- 15. **Tax- Invoice** = Each invoice has its tax and each tax is associated to one invoice. Cardinality is 1 to 1.
- 16. **Product ProductRating =** Each product review is for one product and each product can have multiple reviews. Cardinality is Many to 1.

- 17. **BuyerSeller PurchaseHistory** = Each buyer can have multiple products in its purchase history while every purchase history is associated with one buyer only. Cardinality is 1 to many.
- 18. **BuyerSeller RecentlyViewed =** Each buyer can have multiple products in its recently viewed records while every product in that record is associated with one buyer only. Cardinality is 1 to Many.
- 19. **Tracking Address** = Each tracking of product has one address assigned to it. While, each shipping address is associated with one tracking record. Cardinality is 1 to 1.
- 20. **Tracking BuyerSeller =** Every buyer can have one tracking record for its products and each tracking record is associated with one buyer. Cardinality is 1 to 1.
- 21. **PhoneNo BuyerSeller** = Every buyer seller has many phone numbers but each phone number is associated with one person. Cardinality is many to 1.
- 22. **SavedSeller BuyerSeller =** Each seller can be saved by many users and each user can save multiple sellers. Cardinality is Many to Many.
- 23. **SavedSearch BuyerSeller =** Each user can save multiple search terms. Each search term is associated with the user. Cardinality is 1 to Many.
- 24. Card BuyerSeller = Each card is used by one user while every user can pay using different cards. Cardinality is 1 to Many.

1 to 1 Relationships = 6
1 to Many Relationships = 7
Many to 1 Relationships = 7
Many to Many Relationships = 4
Total Number of Relationships = 24

Normalizing the Existing Schema:

1-NF: A relation is in first normal form if and only if the domain of each attribute contains only atomic values, and the value of each attribute contains only a single value from that domain.

2-NF: A relation is in the second normal form if it fulfills the following two requirements:

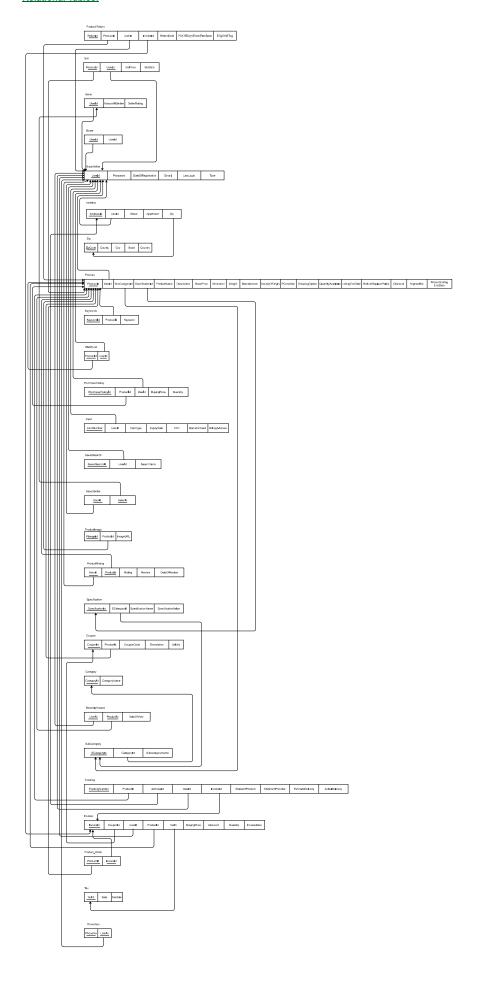
- 1. It is in first normal form.
- 2. It does not have any non-prime attribute that is functionally dependent on any proper subset of any candidate key of the relation. A non-prime attribute of a relation is an attribute that is not a part of any candidate key of the relation.
- 3 NF: A database relation is said to meet third normal form standards if all the attributes are functionally dependent on solely the primary key. Codd defined this as a relation in second normal form where all non-prime attributes depend only on the candidate keys and do not have a transitive dependency on another key.

Our Relations are already Normalized

Link to Relationship Diagram:

https://drive.google.com/file/d/1efZxGu3zsbjt2iX-zRhz3xY7Ctnk8cKg/view?usp=sharing

Relational Tables:



Tables:

- 1) Buyer
- 2) Seller
- 3) Address
- 4) Zip
- 5) PhoneNos
- 6) Keywords
- 7) ProductImage
- 8) WatchList
- 9) PurchaseHistory
- 10)Card
- 11) Saved Search
- 12)SavedSeller
- 13)ProductRating
- 14)RecentlyViewed
- 15)Category
- 16)Subcategory
- 17)Coupon
- 18)Specification
- 19)Tracking
- 20)Invoice
- 21)ReturnP
- 22)Bid

Primary Keys:

- 1) In the **BuyerSeller** table, we have **UserId** as Primary key.
- 2) In the **Address** table, we have **AddressId** as Primary key.
- 3) In the **Zip** table, we have **ZipCode** as the Primary key.
- 4) In the **PhoneNos** table, we have **PhoneNo** as Primary key.
- 5) In the PurchaseHistory table, we have PurchaseHistoryId as Primary key.
- 6) In the **Product** table, we have **productId** as Primary key.
- 7) In the **Keywords** table, we have **KeywordId** as Primary key.
- 8) In the **ProductImage** table, we have **PImageId** as Primary key.
- 9) In the **PurchaseHistory** table, we have **PurchaseHistoryId** as Primary key.
- 10)In the Card table, we have CardNumber as Primary key.
- 11) In the **SavedSearch** table, we have **SavedSearchId** as Primary key.
- 12) In the Category table, we have Categoryld as Primary key.
- 13) In the **SubCategory** table, we have **SCategoryId** as Primary key.
- 14) In the Coupon table, we have CouponId as Primary key.
- 15)In the **Specification** table, we have **SpecificationId** as Primary key.
- 16) In the **Tracking** table, we have **TrackingNumber** as Primary key.
- 17) In the **Invoice** table, we have **Invoiceld** as Primary key.
- 18) In the Tax table, we have TaxId as Primary key.

Foreign Key:

- 1) In the **Address** Table, we have **UserId** as foreign key.
- 2) In the **PhoneNos** Table, we have **UserId** as foreign key.
- 3) In the **Product** Table, we have **UserId** as foreign key.
- 4) In the **Product** Table, we have **SubCategoryld** as foreign key.
- 5) In the **Product** Table, we have **SpecificationId** as foreign key.
- 6) In the **Keywords** Table, we have **ProductId** as foreign key.
- 7) In the **ProductImage** Table, we have **ProductId** as foreign key.
- 8) In the Watchlist Table, we have Userld as foreign key.
- 9) In the Watchlist Table, we have ProductId as foreign key.
- 10)In the PurchaseHistory Table, we have Userld as foreign key.
- 11) In the PurchaseHistory Table, we have ProductId as foreign key.
- 12)In the **Card** Table, we have **UserId** as foreign key.
- 13)In the **SavedSearch** Table, we have **UserId** as foreign key.
- 14) In the **SavedSeller** Table, we have **UserId** as foreign key.
- 15) In the **ProductRating** Table, we have **UserId** as foreign key.

- 16)In the **ProductRating** Table, we have **ProductId** as foreign key.
- 17) In the **RecentlyViewed** Table, we have **UserId** as foreign key.
- 18)In the **RecentlyViewed** Table, we have **ProductId** as foreign key.
- 19) In the SubCategory Table, we have Categoryld as foreign key.
- 20) In the **Coupon** Table, we have **ProductId** as foreign key.
- 21) In the **Specification** Table, we have **SCategoryId** as foreign key.
- 22) In the **Tracking** Table, we have **UserId** as foreign key.
- 23) In the Tracking Table, we have ProductId as foreign key.
- 24) In the **Tracking** Table, we have **AddressId** as foreign key.
- 25) In the Invoice Table, we have UserId as foreign key.
- 26) In the Invoice Table, we have CouponId as foreign key.
- 27) In the Invoice Table, we have ProductId as foreign key.
- 28) In the Invoice Table, we have TaxId as foreign key.
- 29) In the Bid Table, we have UserId as foreign key.

SQL Query for Ebay Database:

- CREATE TABLE Buyer (Userld int NOT NULL PRIMARY KEY, Password varchar(16), DateOfRegistration date, Email varchar(30), LastLogin date);
- CREATE TABLE Seller (SellerId int NOT NULL PRIMARY KEY, Password varchar(16), DateOfRegistration date, Email varchar(30), AccountNumber int, LastLogin date, SellerRating int);
- CREATE TABLE Address (AddressId int NOT NULL PRIMARY KEY, UserId int, Street varchar(30), Apartment varchar(30), Zip int);
- CREATE TABLE Zip (ZipCode int NOT NULL PRIMARY KEY, County varchar(30), City varchar(30), State varchar(30), Country varchar(30));
- CREATE TABLE PhoneNos (PhoneNo int NOT NULL PRIMARY KEY, Userld int);
- CREATE TABLE Product (ProductId int NOT NULL PRIMARY KEY, UserId int, SubCategoryId int, SpecificationId int, ProductName varchar(30), Description varchar(255), BasePrice int, HighestBid int, Dimension varchar(30), Weight int, Manufacturer varchar(30), CountryOfOrigin varchar(30), PCondition int, ShippingOption int, QuantityAvailable int, LisitingEndDate Date, RefundReplacePolicy int, Discount int);
- CREATE TABLE Keywords (Keywordld int NOT NULL PRIMARY KEY, Productld int, Keyword varchar(30));
- CREATE TABLE ProductImage (PImageId int NOT NULL PRIMARY KEY, ProductId int, ImageURL varchar(50));
- CREATE TABLE WatchList (ProductId int, UserId int);
- CREATE TABLE PurchaseHistory (PurchaseHistoryId int NOT NULL PRIMARY KEY, ProductId int, UserId int, BuyingPrice int, Quantity int);
- CREATE TABLE Card (CardNumber int NOT NULL PRIMARY KEY, UserId int, CardType varchar(30), isDefault int, ExpiryDate date, CVV int, NameOnCard varchar(30), BillingAddress varchar(255));

- CREATE TABLE SavedSearch (SavedSearchId int NOT NULL PRIMARY KEY, UserId int, SearchTerm varchar(30));
- CREATE TABLE SavedSeller (UserId int, SellerId int);
- CREATE TABLE ProductRating (UserId int, ProductId int, Rating int, Review varchar(255), DateOfReview date);
- CREATE TABLE Recently Viewed (Userld int, ProductId int, DateOfView date);
- CREATE TABLE Category (Categoryld int NOT NULL PRIMARY KEY, CategoryName varchar(30));
- CREATE TABLE SubCategory (SCategoryld int NOT NULL PRIMARY KEY, Categoryld int, SubCategoryName varchar(30));
- CREATE TABLE Coupon (CouponId int NOT NULL PRIMARY KEY, ProductId int, CouponCode varchar(10), Description varchar(255), Validity date);
- CREATE TABLE Specification (SpecificationId int NOT NULL PRIMARY KEY, SCategoryId int, SpecificationName varchar(255), SpecificationValue varchar(255));
- CREATE TABLE Tracking (TrackingNumber int NOT NULL PRIMARY KEY, ProductId int, AddressId int, UserId int, StatusOfProduct int, ShipmentProvider varchar(30), EstimateDelivery date, ActualDelivery date);
- CREATE TABLE Invoice (InvoiceId int NOT NULL PRIMARY KEY, CouponId int, UserId int, ProductId int, TaxId int, Price int, Discount int, Quantity int, InvoiceDate date);
- CREATE TABLE Tax (TaxId int NOT NULL PRIMARY KEY, TaxRate int, State varchar(30));
- CREATE TABLE Bid (UserId int, ProductId int, BidPrice int, BidDate Date);
- CREATE TABLE ReturnP (ReturnId int NOT NULL PRIMARY KEY, UserId int, ProductId int, InvoiceId int, ReturnDate Date, NoOfDaysFromPurchase int, EligibleFlag int);

- ALTER TABLE `Address` ADD FOREIGN KEY (`UserId`) REFERENCES `BuyerSeller` (`UserId`) ON DELETE CASCADE;
- ALTER TABLE 'PhoneNos' ADD FOREIGN KEY ('Userld') REFERENCES 'BuyerSeller' ('Userld') ON DELETE CASCADE;
- ALTER TABLE 'Product' ADD FOREIGN KEY ('UserId') REFERENCES 'BuyerSeller' ('UserId') ON DELETE CASCADE;
- ALTER TABLE 'Product' ADD FOREIGN KEY ('SubCategoryId') REFERENCES 'SubCategory' ('SCategoryId') ON DELETE CASCADE;
- ALTER TABLE 'Product' ADD FOREIGN KEY ('SpecificationId') REFERENCES 'Specification' ('SpecificationId') ON DELETE CASCADE;
- ALTER TABLE 'Keywords' ADD FOREIGN KEY ('ProductId') REFERENCES 'Product' ('ProductId') ON DELETE CASCADE;
- ALTER TABLE 'ProductImage' ADD FOREIGN KEY ('ProductId') REFERENCES 'Product' ('ProductId') ON DELETE CASCADE;
- ALTER TABLE 'WatchList' ADD FOREIGN KEY ('Userld') REFERENCES 'BuyerSeller' ('Userld') ON DELETE CASCADE;
- ALTER TABLE 'WatchList' ADD FOREIGN KEY ('ProductId') REFERENCES 'Product' ('ProductId') ON DELETE CASCADE;
- ALTER TABLE `PurchaseHistory` ADD FOREIGN KEY (`UserId`) REFERENCES `BuyerSeller` (`UserId`) ON DELETE CASCADE;
- ALTER TABLE 'PurchaseHistory' ADD FOREIGN KEY ('ProductId') REFERENCES 'Product' ('ProductId') ON DELETE CASCADE;
- ALTER TABLE `Card` ADD FOREIGN KEY (`UserId`) REFERENCES `BuyerSeller` (`UserId`) ON DELETE CASCADE;
- ALTER TABLE `SavedSearch` ADD FOREIGN KEY (`UserId`) REFERENCES `BuyerSeller` (`UserId`) ON DELETE CASCADE;

- ALTER TABLE `SavedSeller` ADD FOREIGN KEY (`Userld`) REFERENCES `BuyerSeller` (`Userld`) ON DELETE CASCADE;
- ALTER TABLE 'ProductRating' ADD FOREIGN KEY ('Userld') REFERENCES 'BuyerSeller' ('Userld') ON DELETE CASCADE;
- ALTER TABLE 'ProductRating' ADD FOREIGN KEY ('ProductId') REFERENCES 'Product' ('ProductId') ON DELETE CASCADE;
- ALTER TABLE 'RecentlyViewed' ADD FOREIGN KEY ('Userld') REFERENCES 'BuyerSeller' ('Userld') ON DELETE CASCADE;
- ALTER TABLE 'RecentlyViewed' ADD FOREIGN KEY ('ProductId') REFERENCES 'Product' ('ProductId') ON DELETE CASCADE;
- ALTER TABLE `Subcategory` ADD FOREIGN KEY (`CategoryId`) REFERENCES `Category` (`CategoryId`) ON DELETE CASCADE;
- ALTER TABLE 'Coupon' ADD FOREIGN KEY ('ProductId') REFERENCES 'Product' ('ProductId') ON DELETE CASCADE;
- ALTER TABLE 'Specification' ADD FOREIGN KEY ('SCategoryId') REFERENCES 'SubCategory' ('SCategoryId') ON DELETE CASCADE;
- ALTER TABLE 'Tracking' ADD FOREIGN KEY ('Userld') REFERENCES 'BuyerSeller' ('Userld') ON DELETE CASCADE;
- ALTER TABLE `Tracking` ADD FOREIGN KEY (`ProductId`) REFERENCES `Product` (`ProductId`) ON DELETE CASCADE;
- ALTER TABLE 'Tracking' ADD FOREIGN KEY ('AddressId') REFERENCES 'Address' ('AddressId') ON DELETE CASCADE;
- ALTER TABLE 'Invoice' ADD FOREIGN KEY ('Userld') REFERENCES 'BuyerSeller' ('Userld') ON DELETE CASCADE;
- ALTER TABLE 'Invoice' ADD FOREIGN KEY ('CouponId') REFERENCES 'Coupon' ('CouponId') ON DELETE CASCADE;

- ALTER TABLE 'Invoice' ADD FOREIGN KEY ('ProductId') REFERENCES 'Product' ('ProductId') ON DELETE CASCADE;
- ALTER TABLE 'Invoice' ADD FOREIGN KEY ('TaxId') REFERENCES 'Tax' ('TaxId') ON DELETE CASCADE;
- ALTER TABLE 'Bid' ADD FOREIGN KEY ('Userld') REFERENCES 'BuyerSeller' ('Userld') ON DELETE CASCADE;
- ALTER TABLE `Bid` ADD FOREIGN KEY (`ProductId`) REFERENCES `Product` (`ProductId`) ON DELETE CASCADE;
- ALTER TABLE 'Return' ADD FOREIGN KEY ('Userld') REFERENCES 'BuyerSeller' ('Userld') ON DELETE CASCADE;
- ALTER TABLE 'Return' ADD FOREIGN KEY ('ProductId') REFERENCES 'Product' ('ProductId') ON DELETE CASCADE;

Procedures:

1) To check whether the product is eligible for return or not.

```
CREATE OR REPLACE PROCEDURE CHECKRETURNELIGIBILE AS
CURSOR C1
is
SELECT * FROM RETURNS;
BEGIN
         FOR R
         IN C1
         LOOP
               IF X.NoOfDaysFromPurchase > 60 THEN
                                update RETURNS T
                          set EligibleFlag = 0
                          WHERE R.ReturnId=T.ReturnId;
               END IF;
         END LOOP;
END;
2) To make product quantity 0 once the listing end date is reached as it will be no
  more for sale.
CREATE OR REPLACE PROCEDURE ProductStatus AS
CURSOR C1
is
SELECT * FROM Product;
BEGIN
   FOR P
   IN C1
   LOOP
   IF SYSDATE > P.LisitingEndDate THEN
                    update Product P1
               set Quantity = 0
                    where P1.ProductId= P.ProductId;
   END IF;
   END LOOP;
END;
```

3) To set default card for the buyer

CREATE OR REPLACE PROCEDURE setDefaultCard (
 cardnumber IN INTEGER,
 userid_up IN VARCHAR)

AS BEGIN UPDATE Card SET isdefault = 1 WHERE UserId = userid_up AND
 CardNumber = cardnumber;

END setDefaultCard;

Triggers:

1) To update the seller rating

```
CREATE OR REPLACE TRIGGER updateSellerRatings AFTER
INSERT OR UPDATE OF SellerRating ON Seller
FOR EACH ROW
DECLARE
new rating NUMBER(2, 1);
seller id to update VARCHAR(255);
Count int = (SELECT COUNT(*) FROM PRODUCT P, SELLER S WHERE
   S.SELLERID = P.SELLERID)
BEGIN
new_rating := :new.rating;
SELECT
seller id
INTO seller id to update
FROM product WHERE product id = :new.product id;
UPDATE seller SET SellerRating = ( ( SellerRating * Count ) + new rating ) / ( Count +
   1),
rating_count = rating_count + 1 WHERE seller_id = seller_id_to_update;
END;
```

2) To remove the seller who have less than 2 rating from the system CREATE OR REPLACE TRIGGER remove_low_rated_seller AFTER UPDATE ON SELLER FOR EACH ROW BEGIN SELECT SellerRating FROM Seller; if(SellerRating < 2) then delete from Seller where SellerRating <2; END;

Project Implementation and its Results:

1) Buyer table registering buyer :

Userld	Password	DateOfRegistration	Email	LastLogin
1	nishant	2020-12-16	nishant@utd.com	2021-02-18
2	bhargaw	2021-01-16	bhargaw@utd.com	2021-04-14

2) Seller table registering seller:

Sellerid	Password	DateOfRegistration	Email	AccountNumber	LastLogin	SellerRating
1	tathya	2020-05-26	tathya@utd.com	123456789	2021-03-09	5

3) Invoice table with invoice details:

InvoiceId	Couponid	UserId	ProductId	TaxId	Price	Discount	Quantity	InvoiceDate
20212	NULL	2	1	2	700	NULL	2	2021-04-20
121321	200	1	2	1	600	20	2	2021-05-03

4) Address table, having address details of buyer and seller:

AddressId	Userld	Street	Apartment	Zip
1	1	7575 Frankford	2114	78232

5) Coupon table, showing details of offers on products:

Couponid	ProductId	CouponCode	Description	Validity
200	1	200FF	20 Discount	2021-05-08

6) ProductRating table which stores the rating given to products:

UserId	ProductId	Rating	Review	DateOfReview
1	2	5	Amazing Product	2021-05-03

7) Keyword table, assigning keywords to products:

Keywordld	ProductId	Keyword
1	1	Mobile
2	1	Accessories
3	1	Case
4	2	Car
5	2	Wind Shield

8) PurchaseHistoryId table shows the record of purchased items by seller:

PurchaseHistoryId	ProductId	Userld	BuyingPrice	Quantity
1	1	2	700	1
2	2	1	600	2

9) Tracking table helps to track the order :

TrackingNumber	ProductId	AddressId	UserId	StatusOfProduct	ShipmentProvider	EstimateDelivery	ActualDelivery
113235	1	1	2	0	USPS	2021-05-02	2021-05-05
46531763	2	1	1	1	FedEx	2021-05-03	2021-05-03