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1MCA-A
Web Stack Development
Lab Exercise 1

Domain: Online Retail Store for Exclusive Sneakers

Entities:

1. Customer
2. Order
3. Staff
4. Payment
5. Stock
6. Brand
7. Purchase
8. Wishlist
9. Return
10. Review

Attributes and Data Types:

1) **Customer**:
   a) customerId (Primary Key) (Integer): unique identification
   b) customerName (Varchar): name of the user
   c) customerEmail (Varchar): email of the user
   d) customerMobileNo (Integer): no of user
   e) customerAddress (Varchar): location of the user
   f) registrationDate (Integer): when the user register
   g) lastLogin (Date/Time): check the time period of last login

2) **Order**:
   a) orderId (Primary Key) (Integer): unique identification
   b) orderDate (Integer): check when the order placed
   c) orderAmt (Integer): amt of the product
   d) payId (Integer): detail of the payment
   e) customerId (Foreign Key) (Integer): name of the customer

3) **Staff**:
   a) staffId (Primary Key) (Varchar): unique identification
   b) staffName (Varchar): name of the staff member
   c) staffMobileNo (Varchar): contact of the staff
   d) staffEmail (Varchar): mail id of the staff
   e) staffAddress (Varchar): location of the staff
   f) staffSalary (Integer): salary of the staff

4) **Payment**:
   a) payId (Primary Key) (Integer): unique identification
   b) payAmt (Integer): payment of the product
   c) payDate (Integer): date of payment
   d) customerId (Foreign Key) (Integer): name of customer who has done the payment
   e) payStatus (Varchar): checking the status of payment (pending or completed)
   f) payMode (Varchar): various ways of payment
   g) transactionId (Integer):

5) **Stock**:
   a) stockID (Primary Key) (Integer): Unique identifier for the product.
   b) stockName (Varchar): Name of the product.
   c) description (Varchar): A detailed description of the product.
   d) price (Float): The price of the product in the appropriate currency.
   e) quantity (Integer): Number of units available in stock.
   f) categoryId (Integer): Foreign key referencing the Category entity.
   g) supplierId (Integer): Foreign key referencing the Supplier entity.
   h) imageURL (Varchar): URL of the product image.
   i) averageRating (Float): Average rating given by customers.

6) **Brand**:
   a) brandId (Primary Key) (Integer): unique identification of the brand
   b) brandName (Varchar): name of the brand
   c) brandAmt (Integer): price of the product

7) **Purchase**:
   a) purchaseId (Primary Key) (Integer): unique identification
   b) purchaseAmt (Integer): the total amt of purchasing stock
   c) productId (Foreign Key) (Integer)
   d) purchaseDate (Varchar): date of purchasing product

8) **Wishlist**:
   a) wishlistId (Integer): Unique identifier for the wishlist.
   b) customerId (Integer): Foreign key referencing the Customer entity.
   c) productId (Integer): Foreign key referencing the Product entity.
   d) dateAdded (Date/Time): Date and time the product was added to the wishlist.
   e) quantity (Integer): The quantity of the product the customer wants to purchase.

9) **Return**:
   a) returnId (Primary Key) (Integer): id no the user
   b) productId (Integer): which product has been returned
   c) customerId (Integer): which customer has return
   d) returnDate (Integer): when product return
   e) returnAmt (Integer): amt to be return to the customer
   f) orderId (Integer): which order had been returned

10) **Review**:
   a) reviewId (Integer): Unique identifier for the review.
   b) productId (Integer): Foreign key referencing the Product entity.
   c) customerId (Integer): Foreign key referencing the Customer entity.
   d) rating (Integer): Rating given by the customer.
   e) reviewText (Varchar): Textual review provided by the customer.
   f) reviewDate (Date/Time): Date and time the review was submitted.
   g) reviewStatus (Varchar): Status of the review (e.g., approved, pending, rejected).
   h) helpfulCount (Integer): Number of customers who found the review helpful.
   i) notHelpfulCount (Integer): Number of customers who found the review not helpful.

ER Diagram

Order

order_id(primary key)	integer
order_date	date
order_amt	integer
pay_id (foreign key)	integer
cust_id	integer

Review

rev_id (primary key)	integer
product_id	integer
cust_id	integer
rating	integer
review text	text
review date	date
review statud	string

Customer

cust_id (primary key)	Integer
cust_name	varchar
cust_email	varchar
cust_mobile	integerr
cust_address	varchar
registration date	integer
last login	integer

Stock

s_id(primary key)	integer
s_name	varchar
desc	text
price	float
quantity	integer
category	integer
supplier_id	integerr
image	string
avg rating	float

Staff

staff_id (primary key)	Integer
staff_name	varchar
staffmobileno	integer
staffemail	varchar
staffaddress	varchar
staffsal	integer

Brand

brand_id (primary key)	integer
brand name	varchar
brand amtt	integer

Purchase

purchase_id(primary key)	integer
purchase_amt	integer
product _id (foreign key)	intger
purchase_date	varchar

Paayment

pay_id(primary key)	Integer
pay_status	varchar
pay_amt	integer
pay date	integer
cust_id(foreign key)	integer
pay_mode	varchar
trans_id	integrer

Return

r_id (primary key)	integer
product_id	integer
cust_id (foreign key)	integer
return date	integer
return amt	integer
order id	integer

Wishlist

wish_id(primary key)	integer
cust_id (foreign key)	integer
product_id	integer
date	varchar
priotity	integer

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