Product ,product pricing and Discount related tables

Every product may have different discounts and offers that are currently valid

Every product's price tends to change based on seller and their margin

each product has multiple offers based on payment method

Table relating - Offers and discounts on Credit card and cash backs e-wallets

Payment method based offers

Every product category can have multiple products in them

this relation can be used to specify products having multiple categories, hence giving us the fuctionality to club offers of all the categories the product belongs to

each product category has multiple offers based on payment method

each category has multiple discounts

Campaign manager can modify the discount set for any product

One manager can start one and is responsible for only one campaign

Every campaign can set different offers or discounts for different product categorires.If offers not specified the previous offers remain

Campaign related tables

Based on purchase history of user ,user has multiple type of reward points

Every member type has zero or mutiple users

Loyalty reward system related tables

product

id	number **PK**
product_name	varchar2(100)
product_description	varchar2(4000)
units_in_stock	number
product_category_id	number
reward_points_credit	number

product_discount

id	number **PK**
product_id	number **FK**
manager_id	number **FK**
discount_unit	varchar2(20)
create_date	timestamp
valid_from	timestamp
valid_until	timestamp
coupon_code	varchar2(20)
minimum_order_value	number
maximum_discount_amount	number
is_redeem_allowed	char(1)

product_price

id	number **PK**
product_id	number **FK**
base_price	number
create_date	timestamp
expiry_date	timestamp
in_active	char(1)

payment_offers

id	number **PK**
institute_type	varchar2(50)
institute_name	varchar2(200)
card_type	varchar2(20) **N**
coupon_code	varchar2(10)
discount_value	number
discount_unit	varchar2(20)
create_date	timestamp
valid_from	timestamp
valid_until	timestamp
maximum_discount_amount	number
product_id	number **N FK**
product_category_id	number **N FK**

product_category

id	number **PK**
category_name	varchar2
max_reward_points_encash	number
parent_category_id	number **N FK**

product_category_discount

id	number **PK**
product_category_id	number **FK**
campaign_id	number **FK**
discount_value	number
discount_unit	varchar2(20)
create_date	timestamp
valid_from	timestamp
valid_until	timestamp
coupon_code	varchar2(10)
minimum_order_value	number
is_redeem_allowed	char(1)
maximum_discount_amount	number

campaign_manager

id	Number **PK**
first_name	varchar2(50)
last_name	varchar2(50)

campaign

id	Number **PK**
manager_id	Number **FK**
create_date	timestamp
starts_from	timestamp
ends_on	timestamp

user

id	number **PK**
first_name	varchar2(50)
last_name	varchar2(50)
registration_date	date
promotional_reward_points	number
non_promotional_reward_points	number
membership_type_id	number **N FK**

user_reward_point_tab

id	number **PK**
user_id	number **FK**
reward_points	number
reward_type	date
promotional_reward_points	char(2)
operation_type	char(1)
create_date	timestamp
expiry_date	date **N**

membership_type

id	number **PK**
membership_type	varchar2(50)
discount_value	number
discount_unit	varchar2(20)
create_date	date
valid_until	date
is_free_shipping_active	number **N FK**