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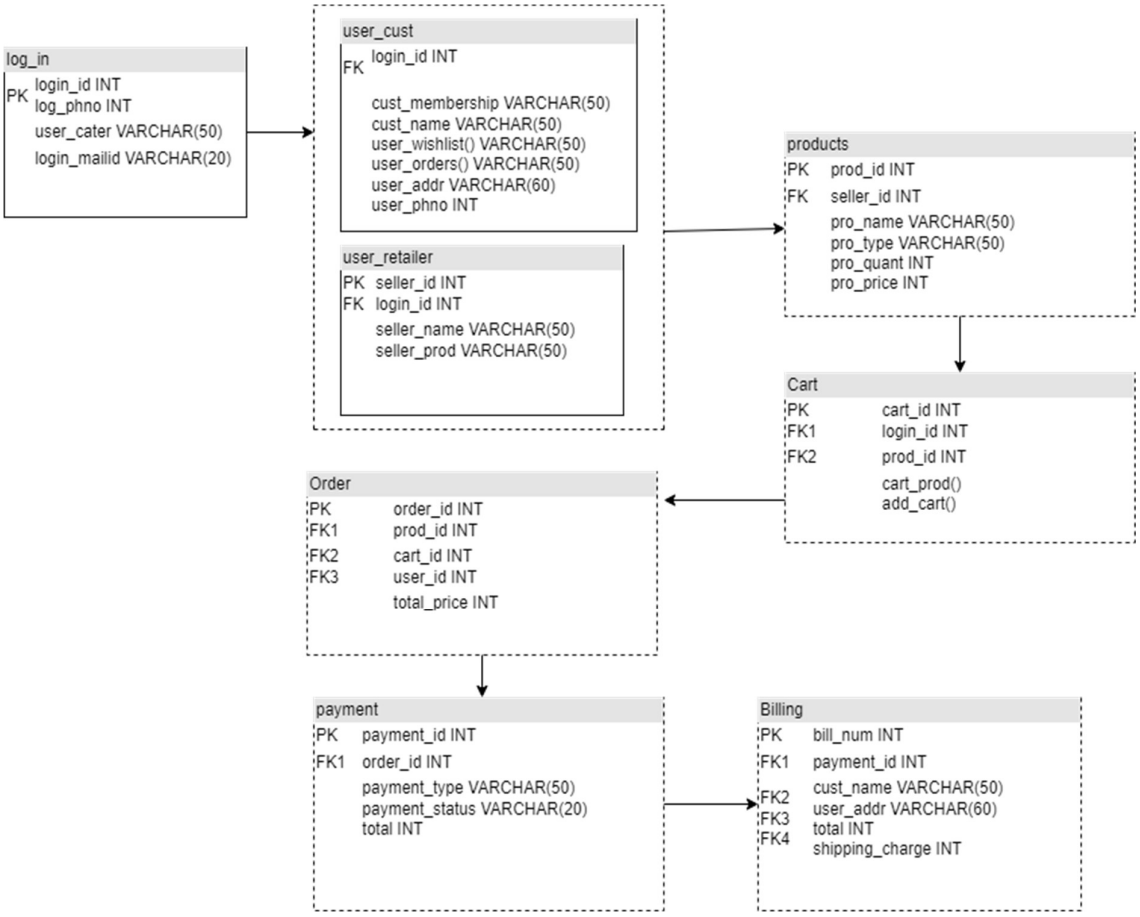
SQL Class



PK: Primary key

FK: Foreign Key

Fig: Schema (Requirements) of Amazon DB

Requirements:

1. Entity:

log_in

user_cust

user_retailer

products

returns and orders

Cart

Order

payment

Billing

deliver

2. Feature:

Search by ratings(Best, Average)

search by pic

search by top picks, ratings

festive sales

Table 1: create table log_in(login_id int primary key, login_mailid varchar(20),

login_phno int, login_cater varchar(20));

Table 2: create table user_cust(login_id int, cust_membership varchar(20),

cust_name varchar(20),

user_wishlist varchar(20), user_orders varchar(20),

user_address varchar(20), user_phno int, user_cart varchar(20),

foreign key(login_id) references log_in(login_id));

DML: insert into log_in values(123, 'shreya23@gmail.com', '6487654222',

'customer');

DDL: insert into log_in values(124, 'ravan23@gmail.com', '6487654222',

'retailer');

select * from log_in;

insert into user_cust values(123, 'prime', 'shreya', 'jbl speaker',

'syska led', '4th block annanagar', 6487654222, 'BOAT speaker');

Table 3: create table user_retailer(seller_id int primary key,

seller_name varchar(30),

seller_prod varchar(50),

login_id int,

foreign key(login_id) references log_in(login_id));

DML:

insert into user_retailer values(102, 'RavanCore Ent.','Electronics',

124);

Table 4: create table products(prod_id int primary key, prod_name varchar(50),

prod_type varchar(30), prod_quantity int, seller_id int,

foreign key(seller_id) references user_retailer(seller_id));

DML: insert into products values(201, 'iphone 13', 'smartphone', 3, 102);

insert into products values(202, 'MACbook pro', 'laptop', 1, 102);

select * from products;

Table 5:

create table cart(login_id int, prod_id int, cart_product varchar(50),

cart_quantity int,

foreign key(login_id) references log_in(login_id),

foreign key(prod_id) references products(prod_id));

DDL: drop table cart;

Table 6: create table cart(cart_id int primary key, login_id int, prod_id int,

cart_product varchar(50),

cart_quantity int,

foreign key(login_id) references log_in(login_id),

foreign key(prod_id) references products(prod_id));

DML:

insert into cart values(1,123, 202, 'MACbook pro', 1);

insert into cart values(2,123, 201, 'iphone 13', 1);

DDL: alter table products add price int;

desc products;

update products set price = 100000 where prod_id = 202;

update products set price = 80000 where prod_id = 201;

select * from products;

alter table cart add price int;

select * from cart;

DML:

update cart set price = 100000 where prod_id = 202;

update cart set price = 80000 where prod_id = 201;

select * from cart;

Table 7 : create table orders(order_id int primary key, prod_id int, cart_id int,

login_id int, total_price int,

foreign key(prod_id) references products(prod_id),

foreign key(cart_id) references cart(cart_id),

foreign key(login_id) references log_in(login_id));

insert into orders values(302, 202, 1, 123, 100000);

select * from cart;

Table 8: create table payment(payment_id int primary key, order_id int,
payment_type varchar(50), payment_status varchar(20),
total int, foreign key(order_id) references orders(order_id));

insert into payment values(401, 302,'UPI', 'SUCCESS', 100000);

Table 9: create table billing(bill_num int primary key, login_id int,
payment_id int,
shipping_charges int, date_ date,
foreign key(login_id) references log_in(login_id),
foreign key(payment_id) references payment(payment_id));

select * from payment;

DML: insert into billing values(501, 123, 401, 50, '20-jan-22');

select * from billing;

……..

FEATURES

Table 10: create table flight(flight_num int primary key, origin varchar(50),
destination varchar(50), price int);

DML: insert into flight values(1330,'Bangalore','kathmandu', 11000);
select * from flight;

Table 11: create table mobile_recharge(Operator_name varchar(10), recharge_amount int, validity varchar(10));

DML: insert into mobile_recharge values('Jio', 149, '24 DAYS');

insert into mobile_recharge values('Airtel', 169, '24 DAYS');

insert into mobile_recharge values('Vodafone', 159, '24 DAYS');

Table 12: create table search_features(login_id int, seller_id int,

order_id int,

prod_id int, mobile_recharge varchar(20),

flight varchar(20),

foreign key(login_id) references log_in(login_id),

foreign key(seller_id) references user_retailer(seller_id),

foreign key(order_id) references orders(order_id),

foreign key(prod_id) references products(prod_id));

Table 13: create table festive_sales(login_id int, seller_id int,

order_id int,

prod_id int, mobile_recharge varchar(20),

flight varchar(20),

foreign key(login_id) references log_in(login_id),

foreign key(seller_id) references user_retailer(seller_id),

foreign key(order_id) references orders(order_id),

foreign key(prod_id) references products(prod_id));