Online Shopping System

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PURPOSE

Online web stores, such as Amazon and eBay, have gained huge popularity over the years because one can buy almost everything at these stores. These web stores also give an opportunity to a lot of small-scale companies and manufactures to reach the global market and to directly sell their products to people without involving different other companies or middlemen before their product can reach the shelves of a physical store. Further, instead of using the available platforms, manufacturers can bring a concept of designing their own web store to sell their products directly to the masses. The objective of this project is to develop a general purpose e-commerce store whereany products can be bought from the comfort of home through the Internet. However, for implementation purposes, this paper will deal with an online Shopping system.

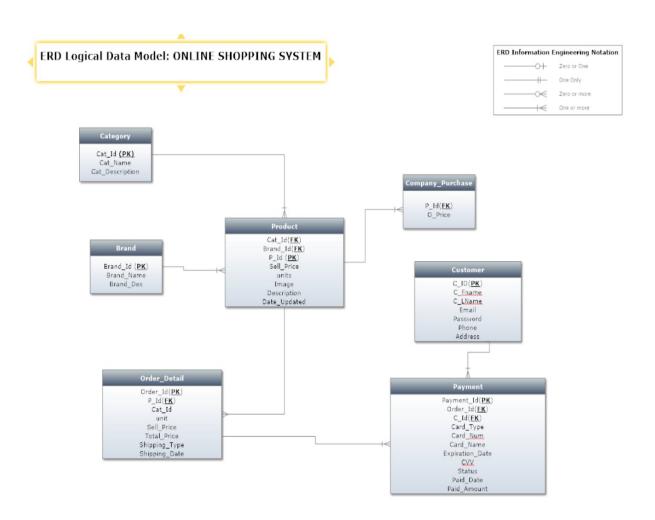
INTRODUCTION

This paper presents the design of a database system for a online Electronics device store using ORACLE database that performs search functions for selected products and different types of tables. It will store various products data as well as users order details to run shopping system from admin side and user side with user login.

NAME OF TABLES

- 1. Customer_login_tbl
- 2. Brand_tbl
- **3.** Category
- 4. Products
- 5. Order_Detail
- **6.** Sales_tbl
- 7. Payment_tbl

ER DIAGRAM



SCREENSHOTS OF CREATE TABLE AND INSERTED DATA

Create Customer Table

```
SQL> CREATE TABLE Customer

2 (
3 C_Id varchar(10) NOT NULL PRIMARY KEY,
4 C_Fname varchar(10) NOT NULL,
5 c_Lname varchar(10) NOT NULL,
6 Email varchar(300) NOT NULL,
7 password varchar(10) NOT NULL,
8 Phone int NOT NULL,
9 Address varchar(100) NOT NULL
10 )
11 ;
Table created.
```

```
INSERT INTO Customer
VALUES ('1000', 'Sapna', 'Makadia', 'sapana.makadia@gmail.com', 's4909', '5513587862', 'jersey city');
INSERT INTO Customer
VALUES ('1001', 'Rushil', 'Patel', 'rushil.patel@gmail.com', 'r143', '5513588036', 'jersey city');
INSERT INTO Customer
VALUES ('1002','Jay','Gosai','jay.g@yahoo.com','jq556','2015622589','edison');
INSERT INTO Customer
VALUES ('1003','Utsav','Thakkar','utsav255@gmail.com','4853','5545236574','union city');
INSERT INTO Customer
VALUES ('1004','Hiral','Rudani','hiral.rudani@gmail.com','h210','5513218526','jersey city');
INSERT INTO Customer
VALUES ('1005', 'Ekta', 'Dalsaniya', 'eku455@qmail.com', '45563', '8015321468', 'newark');
VALUES ('1006', 'Himil', 'Patel', 'patelhm@yahoo.com', '214hmz09', '5519852147', 'jersey city');
INSERT INTO Customer
VALUES ('1007','Dhruv','Makadia','dhruv.makadia@gmail.com','dh241785','3571582468','hoboken');
INSERT INTO Customer
VALUES ('1008', 'John', 'nishy', 'john.ny@gmail.com', '151jh421', '6852858541', 'secausus');
INSERT INTO Customer
VALUES ('1009', 'Michel', 'filler', 'micky@gmail.com', 'ds2685df', '5513525282', 'westwood');
```

Create Category Table

```
SQL> cr^?^?
unknown command "" - rest of line ignored.
SQL> c^?
Invalid change string.
SQL> CREATE TABLE Category
2 (
3 Cat_Id varchar(10) NOT NULL,
4 Cat_Name varchar(30) NOT NULL,
5 Cat_Dec varchar(100)
6 )
7 ;
Table created.
```

```
INSERT INTO Category
VALUES ('11220', 'Mobile', 'List of all Mobiles');
INSERT INTO Category
VALUES ('11221', 'Laptops', 'List of all Laptops');
INSERT INTO Category
VALUES ('11222', 'video game', 'List of all video games');
INSERT INTO Category
VALUES ('11223', 'TV', 'List of all TV');
INSERT INTO Category
VALUES ('11224', 'Camera', 'List of all Camera');
INSERT INTO Category
VALUES ('11225', 'Tablets', 'List of all Tablets');
INSERT INTO Category
VALUES ('11226', 'Fitness watch', 'List of all Fitness watch');
INSERT INTO Category
VALUES ('11227', 'Bluetooth & wireless speakers', 'List of all Bluetooth & wireless speakers');
INSERT INTO Category
VALUES ('11228', 'GPS', 'List of all GPS');
```

Create Brand Table

```
SQL> CREATE TABLE Brand

2 (
3 Brand_Id varchar(10) NOT NULL PRIMARY KEY,
4 Brand_Name varchar(20) NOT NULL,
5 Brand_Dec varchar(500)
6 )
7 ;
Table created.
```

```
INSERT INTO Brand
VALUES ('2200', 'Apple', 'Apple is a Largest Selling Company for their Very Special Product iPhones')
VALUES ('2201', 'Samsung', 'Samsung has been dedicated to making a better world through diverse businesses that today span advanced
INSERT INTO Brand
VALUES ('2202', 'HTC', 'HTC brings brilliance to life through leading innovation in smart mobile device and experience design. Begi
VALUES ('2203', 'LG', 'LG is a global leader and technology innovator in consumer electronics, mobile communications and home appli
INSERT INTO Brand
VALUES ('2204', 'Sony', 'Sony has introduced a stream of revolutionary products, including the transistor radio, the Trinitron tele
INSERT INTO Brand
VALUES ('2205','Microsoft','one of the largest, most respected computer science research organizations in the world.')
VALUES ('2206', 'Dell', 'The largest direct-sale computer vendor in the world, Dell Computer Corporation sells desktop personal com
VALUES ('2207', 'Lenovo',' Lenovo is a US$34 billion personal technology company and the worlds largest PC vendor.')
INSERT INTO Brand
VALUES ('2208', 'HP', 'Our vision is to create technology that makes life better for everyone, everywhere — every person, every org
INSERT INTO Brand
VALUES ('2209','Xbox','The all-in-one entertainment system. Where the best games, multiplayer, and your favorite movies, music, s
```

Create product Table

```
SQL> CREATE TABLE Products

2 (
3 Cat_Id varchar(10) NOT NULL,
4 Brand_Id varchar(10) NOT NULL,
5 Product_Id varchar(10) NOT NULL PRIMARY KEY,
6 Price float NOT NULL,
7 Unit int,
8 Image blob,
9 DEscription varchar(500),
10 Date_Updated date,
11 FOREIGN KEY (Cat_Id) REFERENCES Category(Cat_Id),
12 FOREIGN KEY (Brand_Id) REFERENCES Brand(Brand_Id)
13 )
14 ;
Table created.
```

```
INSERT INTO Product
VALUES('11220','2200','4402','350','4','','Ipods',TO_DATE('12122015','mmddyyyy'));
INSERT INTO Product
VALUES('11220','2201','4403','450','13','','Galaxy Phones',TO DATE('10122015','mmddyyyy'));
INSERT INTO Product
VALUES('11220','2202','4404','78','10','','HTC',TO_DATE('08122015','mmddyyyy'));
INSERT INTO Product
VALUES('11221','2200','4405','800','7','','MacBook',TO_DATE('07122015','mmddyyyy'));
INSERT INTO Product
VALUES('11223','2201','4406','1200','6','','Samsung TV',TO_DATE('07112015','mmddyyyy'));
INSERT INTO Product
VALUES('11225','2201','4407','120','3','','Samsung Tablets',TO DATE('12122015','mmddyyyy'));
INSERT INTO Product
VALUES('11224','2204','4408','500','10','','Sony Camera',TO_DATE('11112015','mmddyyyy'));
INSERT INTO Product
VALUES('11220','2206','4409','190','15','','Dell Phones',TO DATE('10102015','mmddyyyy'));
INSERT INTO Product
VALUES('11225','2200','4410','600','18','','Ipads',TO_DATE('10082015','mmddyyyy'));
INSERT INTO Product
VALUES('11227','2201','4411','1189.99','17','','Lenovo Laptops',TO_DATE('05122015','mmddyyyy'));
INSERT INTO Product
VALUES('11221','2205','4412','289.99','8','','Microsoft Surface',TO DATE('12092015','mmddyyyy'));
INSERT INTO Product
VALUES('11226','2205','4413','119.99','25','','Microsoft Fitness Belt',To_DATE('09092015','mmddyyyy'));
```

Create Order detail Table

```
SQL> CREATE TABLE Orders

2 (
3 Order_Id varchar(10) NOT NULL PRIMARY KEY,
4 Product_Id varchar(10),
5 C_Id varchar(10),
6 Qty int,
7 Price float NOT NULL,
8 Total_Price float NOT NULL,
9 Shipping_Date date,
10 FOREIGN KEY (Product_Id) REFERENCES Products(Product_Id),
11 FOREIGN KEY (C_Id) REFERENCES Customer(C_Id)
12 )
13 ;
Table created.
```

```
INSERT INTO Order_Detail
VALUES('9900','4400','1001','1','89.99','89.99','CarryOut',To_DATE('12152015','mmddyyyy'));
INSERT INTO Order_Detail
VALUES('9901','4401','1002','1','99.99','99.99','Delivery',To_DATE('12182015','mmddyyyy'));
INSERT INTO Order_Detail
VALUES('9902','4402','1003','2','350','700','CarryOut',To_DATE('12202015','mmddyyyy'));
INSERT INTO Order_Detail
VALUES('9903','4403','1004','1','450','450','Delivery',To_DATE('12252015','mmddyyyy'));
INSERT INTO Order_Detail
VALUES('9904','4404','1005','3','78','234','CarryOut',To_DATE('01012015','mmddyyyy'));
```

Create Payment Table

```
INSERT INTO Payment
VALUES('1001','5500','VISA','1234567891234567','CUST',To_DATE('022019','MMYYYY'),'123','SUCESSFUL',TO_DATE('12122015','mmddyyyy')

INSERT INTO Payment
VALUES('1002','5501','MASTERCARD','4512369645123678','Rushil',To_DATE('042020','MMYYYY'),'996','SUCESSFUL',TO_DATE('11122015','mm

INSERT INTO Payment
VALUES('1003','5502','DISCOVER','252589631451278','Sapna',To_DATE('092018','MMYYYY'),'900','SUCESSFUL',TO_DATE('12102015','mmddyy

INSERT INTO Payment
VALUES('1004','5503','VISA','9979410236127180','Jesse',To_DATE('102019','MMYYYY'),'056','SUCESSFUL',TO_DATE('12092015','mmddyyyy'

INSERT INTO Payment
VALUES('1005','5504','DISCOVER','6469312578903370','Sabir',To_DATE('102020','MMYYYY'),'846','SUCESSFUL',TO_DATE('12082015','mmddy
```

SCREENSHOTS OF VIEWS

1. View for sales by category

```
SQL> CREATE VIEW SALES_BY_CATEGORY
      3 SELECT Payment.PAYMENT_ID, Order_Detail.Order_Id, Product.Cat_Id, Payment.PAID_AMOUNT
FROM Product, Order Detail, Payment
Where Payment.Order Id=Order Detail.Order Id AND Order Detail.P Id=Product.P Id AND Product.Cat Id IN(select Cat Id from Product)
View created.
SQL> SQL> select * from sales_by_category;
PAYMENT_ID
                    ORDER_ID CAT_ID
                                           PAID_AMOUNT
5502
                                                   700
                    9902
5504
                    9904
                                                  234
                    9900
```

2. View for sales by products

```
CREATE VIEW SALES_BY_Productss
SELECT Product.P_Id,Order_Detail.Order_Id,Payment.PAYMENT_ID,Payment.PAID_AMOUNT from product,Order_Detail,Payment
                       where
     Payment.Order_Id=Order_Detail.Order_Id AND Order_Detail.P_Id=Product.P_Id
View created.
SQL> select * from sales_by_productss;
             ORDER_ID
                          PAYMENT_ID
                                                    PAID_AMOUNT
4401
                                                            99.99
700
4402
             9902
                          5502
                          5503
5504
5500
                                                              450
234
4403
             9904
9900
4404
```

3. View for sales by brand

4. View to check profit by category

```
SQL> CREATE VIEW PROFIT_BY_CATEGORY
AS
ESELECT Company_Purchase.P_Id,Product.Sell_Price,Company_Purchase.O_Price,Product.Cat_Id,(Product.Sell_Price - Company_Purchase.O_Price) AS DIFF
FROM Product,Company_Purchase 2 3 4
where Product.P_Id=Company_Purchase.P_Id
View created.
SQL> SELECT * FROM PROFIT_BY_CATEGORY;
               SELL PRICE O PRICE CAT ID
P ID
                      89.99
89.99
99.99
                                                                      19.99
19.99
4400
                                         70 11220
70 11221
300 11220
4400
                                                                      29.99
4401
4402
                                         400 11221
50 11220
700 11221
4404
4405
                         78
800
                                                                         28
100
```

5. View to check profit by product

6. View to check profit by brand

SCREENSHOTS OF INDEXING

```
SQL> create index payment_detail
ON Payment(Payment_Id,Order_Id,status); 2
Index created.
```

```
SQL> create index Prdt_Detail
ON Product(P_Id,Sell_Price) 2 ;
Index created.
```