

# Department of Information Science and Engneering

NAME OF THE PROJECT:-

**E-COMMERCE MANAGEMENT** 

TEAM MEMBERS ALONG WITH USN:-

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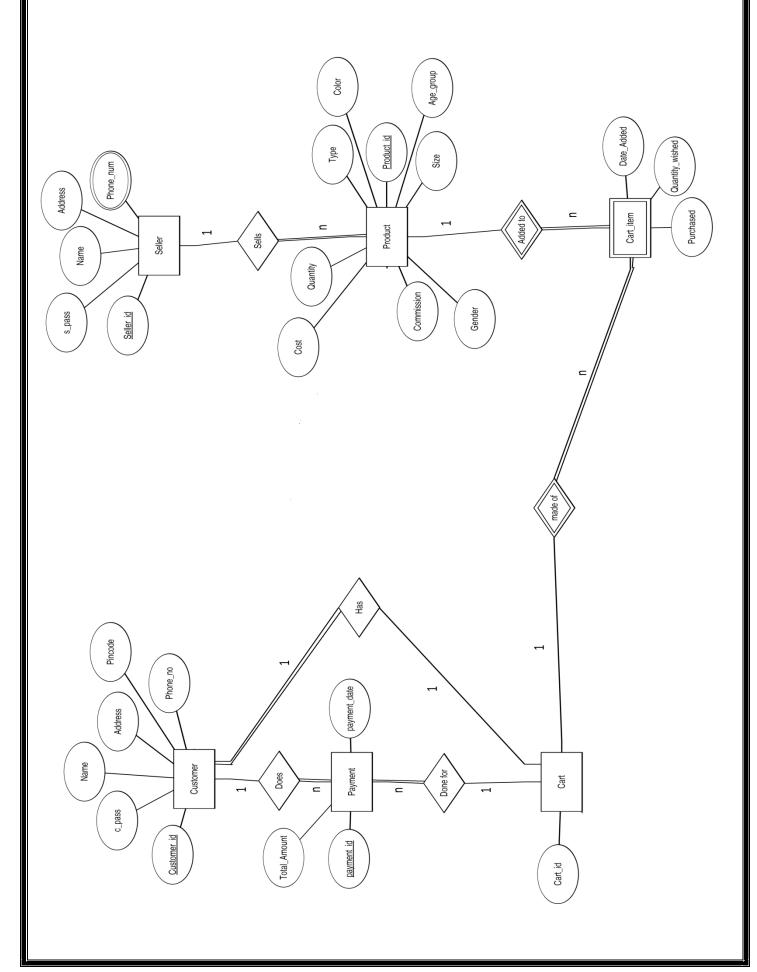
SUBECT NAME WITH CODE:-

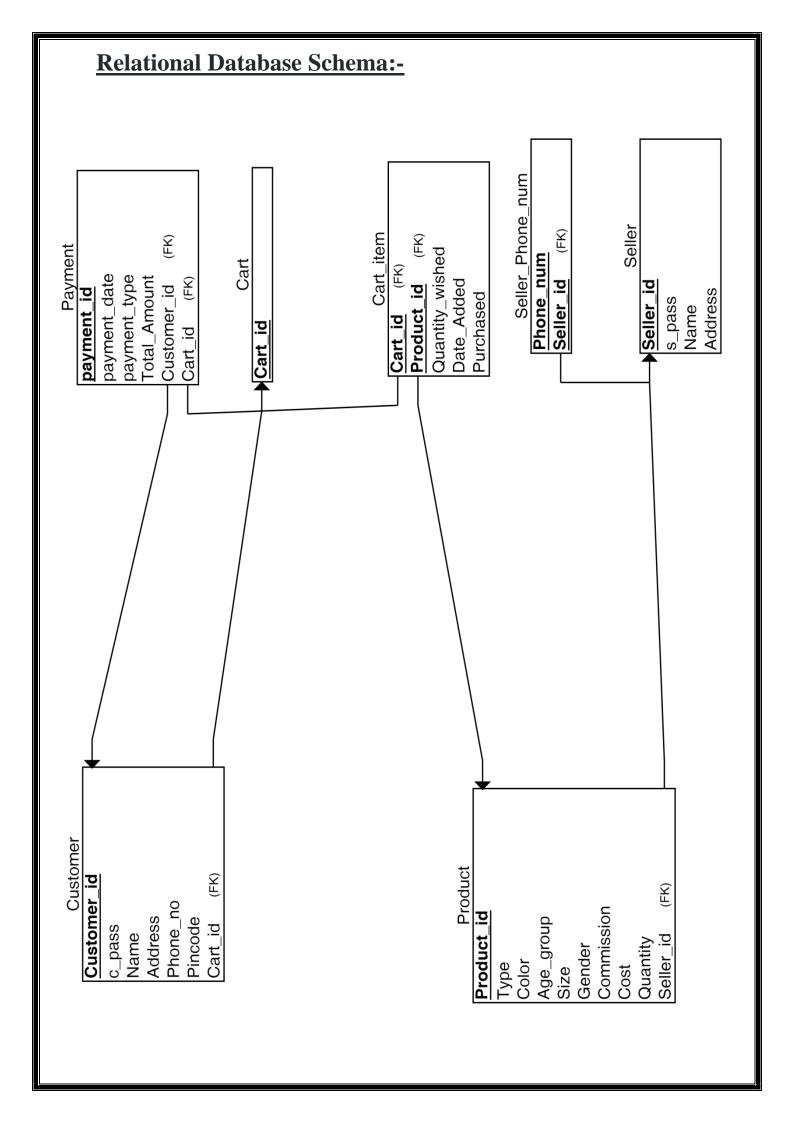
DATABASE MANAGEMENT SYSTEM [IS52]

ACADEMIC TERM:-

AUGUST-2020 TO DECEMBER-2020

## Entity Relation Diagram:-





```
TABLE CREATION:
CREATE TABLE Cart (
    Cart_id VARCHAR(7) NOT NULL,
    PRIMARY KEY(Cart_id)
 );
CREATE TABLE Customer (
    Customer_id VARCHAR(6) NOT NULL,
    Name VARCHAR(20) NOT NULL,
    Address VARCHAR(20) NOT NULL,
    Pincode DECIMAL(6) NOT NULL,
    Phone_number DECIMAL(10) NOT NULL,
    PRIMARY KEY (Customer_id),
    Cart_id VARCHAR(7) NOT NULL,
    FOREIGN KEY(Cart_id) REFERENCES cart(Cart_id)
 );
CREATE TABLE Seller (
    Seller_id VARCHAR(6) NOT NULL,
   Name VARCHAR(20) NOT NULL,
    Address VARCHAR(10) NOT NULL,
    PRIMARY KEY (Seller_id)
 );
```

```
CREATE TABLE Payment (
 payment_id VARCHAR(7) NOT NULL,
 payment_date DATE NOT NULL,
 Payment_type VARCHAR(10) NOT NULL,
  Customer_id VARCHAR(6) NOT NULL,
  Cart_id VARCHAR(7) NOT NULL,
 PRIMARY KEY (payment_id),
  FOREIGN KEY (Customer_id) REFERENCES Customer(Customer_id),
 FOREIGN KEY (Cart_id) REFERENCES Cart(Cart_id),
 total amount DECIMAL(6)
);
CREATE TABLE Product
 Product_id VARCHAR(7) NOT NULL,
  Type VARCHAR(7) NOT NULL,
  Color VARCHAR(15) NOT NULL,
  P_Size VARCHAR(2) NOT NULL,
  Gender CHAR(1) NOT NULL,
  Commission DECIMAL(2) NOT NULL,
  Cost DECIMAL(5) NOT NULL,
  Quantity DECIMAL(2) NOT NULL,
  Seller_id VARCHAR(6),
 PRIMARY KEY (Product_id),
  FOREIGN KEY (Seller_id) REFERENCES Seller(Seller_id)
  ON DELETE SET NULL
```

```
);
  CREATE TABLE Cart_item (
    Quantity wished DECIMAL(1) NOT NULL,
    Date_Added DATE NOT NULL,
    Cart_id VARCHAR(7) NOT NULL,
    Product_id VARCHAR(7) NOT NULL,
    FOREIGN KEY (Cart_id) REFERENCES Cart(Cart_id),
    FOREIGN KEY (Product_id) REFERENCES Product(Product_id),
    Primary key(Cart_id,Product_id)
  );
INSERTION TO TABLE:
Cart Table:
>insert into Cart values('CART100');
>insert into Cart values('CART200');
>insert into Cart values('CART300');
Customer Table:
>insert into Customer values('CID100', 'ABC', 'BANGLORE', '560010', 7411183868,
'CART100');
>insert into Customer values('CID200','DEF','MANGLORE','560058',6362470725,
'CART200');
>insert into Customer values('CID300','PQR','UDUPI','560043',8152921198,
'CART300');
```

```
Seller Table:
>insert into Seller values('SID100','XYZ','BENGALURU');
Product Table:
>insert into Product values('PID100', 'SHIRT', 'RED', '30', 'M', 10, 1000, 20, 'SID100');
>insert into Product
values('PID200','JEANS','BLACK','30','M',10,2000,20,'SID100');
Cart_item Table:
>insert into Cart_item values(3,'2015-12-05','CART100','PID100','YES');
>insert into Cart_item values(3,'2015-11-05','CART200','PID200','YES');
>insert into Cart item values(5,'2015-10-05','CART300','PID100','NO');
Payment Table:
>insert into Payment values('PAY100','2015-12-
05', 'CASH', 'CID100', 'CART100', 3000);
>insert into Payment values('PAY200','2015-11-
05', 'CHEQUE', 'CID200', 'CART200', 6000);
>insert into Payment values('PAY300','2015-01-
24', 'ONLINE', 'CID300', 'CART300', 5000);
>insert into Payment values('PAY400','2015-01-
24', 'ONLINE', 'CID300', 'CART300', 10000);
```

#### Customer:

```
MariaDB [user]> select * from customer;
 Customer_id | Name | Address | Pincode | Phone_number | Cart_id |
            ABC
 CID100
                   BANGLORE
                              560010
                                         7411183868
                                                     CART100
                   MANGLORE
 CID200
            DEF
                              560058
                                         6362470725 | CART200
 CID300
            PQR UDUPI
                               560043
                                         8152921198 | CART300
```

#### Cart

```
MariaDB [user]> select * from Cart;
+-----+
| Cart_id |
+-----+
| CART100 |
| CART200 |
| CART300 |
| crt1011 |
+-----+
```

#### **Product**

```
MariaDB [user]> select * from product;

| Product_id | Type | Color | P_Size | Gender | Commission | Cost | Quantity | Seller_id |
| PID100 | SHIRT | RED | 30 | M | 10 | 1000 | 20 | NULL |
| PID200 | JEANS | BLACK | 30 | M | 10 | 2000 | 20 | NULL |
```

#### **Payment**

```
MariaDB [user]> select * from payment;
| payment_id | payment_date | Payment_type | Customer_id | Cart_id | total_amount |
 PAY100
            2015-12-05
                          CASH
                                         CID100
                                                       CART100
                                                                        3000
 PAY200
             2015-11-05
                          CHEQUE
                                         CID200
                                                       CART200
                                                                        6000
 PAY300
            2015-01-24
                          ONLINE
                                          CID300
                                                       CART300
                                                                        5000
 PAY400
            2015-01-24 | ONLINE
                                         CID300
                                                      CART300
                                                                       10000
```

### Cart\_item:

```
MariaDB [user]> select * from cart_item;

| Quantity_wished | Date_Added | Cart_id | Product_id | purchased |
| 3 | 2015-12-05 | CART100 | PID100 | YES |
| 3 | 2015-11-05 | CART200 | PID200 | YES |
| 5 | 2015-10-05 | CART300 | PID100 | NO |
```

#### Seller:

## **QUERIES:**

SQL & RELATIONAL ALGEBRAS

→ Ret the details of seller and product who sold the product;

>select \* from product,seller where product.seller\_id=seller.seller\_id;

 $> \rho$  (product  $\times$  seller)

product.seller\_id = sellerseller\_id

```
→ Ret the details of payment details who payed amount through 'online';
>select payment_id,payment_type from payment
 where payment_type='Online';
               (\(\sigma\) product_type=Online (product))
> π
     payment_id
  → Ret min payment details for cart_id=CID100.
     >select min() from payment
         Where cart_id='CID100';
  → Ret details of employee whose product_id is PID100.
>select product_id,type,cost from product
  -> where product_id='PID100';
>\pi
                            (o product_id=PID100 (product))
     product_id,type,cost
→ Display the maximum cost in the give product.
>select max(cost)
  from product;
```

```
>\(\mathcal{T}\)
                  (product)
       max cost
   → Display the name of customer who doesnot belong to cart id=101
>select name,customer_id from customer
  Minus
  Select name, customer_id from customer
     Where cart_id='CID100';
>R1 \leftarrow \pi name, customer_id(customer)
  R2 \leftarrow \pi \ name, customer\_id(\sigma \ customer\_id='CID100' \ (customer)
  Result \leftarrow R1 - R2
   → How much product sold on the particular date
>select count(product_id) count_pid,date_added
       from Cart_item
       where purchased='Yes' group by(date_added);
   → Retrive the product details with repective seller details
>select * from
    Product NATURAL JOIN seller;
> R1 \leftarrow product * seller
```

## MONGO DB:

```
Retrieve all customer details
->db.customer.find().pretty()
List the product details belongs to cart number 100
-->db.cart_item.find({''cart_id'':'cid100'}).pretty()
Update the customer phone no where customer id=200
->db.customer.update({"customer_id":200},{$
Set:{"Phone_Number":7760798437}},multi:true})
-->->db.customer.find().pretty()
List the Products in each cart
-->db.cart.aggregate([{$group:{id:''$cart_id'',total:{$sum:''Product_id''}}}])
Find Customer Id who made payment on 05/11/2015 and payment type is cheque
-->d.payment_find({''payment_date'':'05/11/2015',''Payment_type'':'Online'})
```