

We are an 'Xyz' ECOM company and we have the following data.

**Seller:** Table contains all the sellers who have listed their products to sold on our website.

**Items:** table contains all the items that the seller has posted/listed on our website.

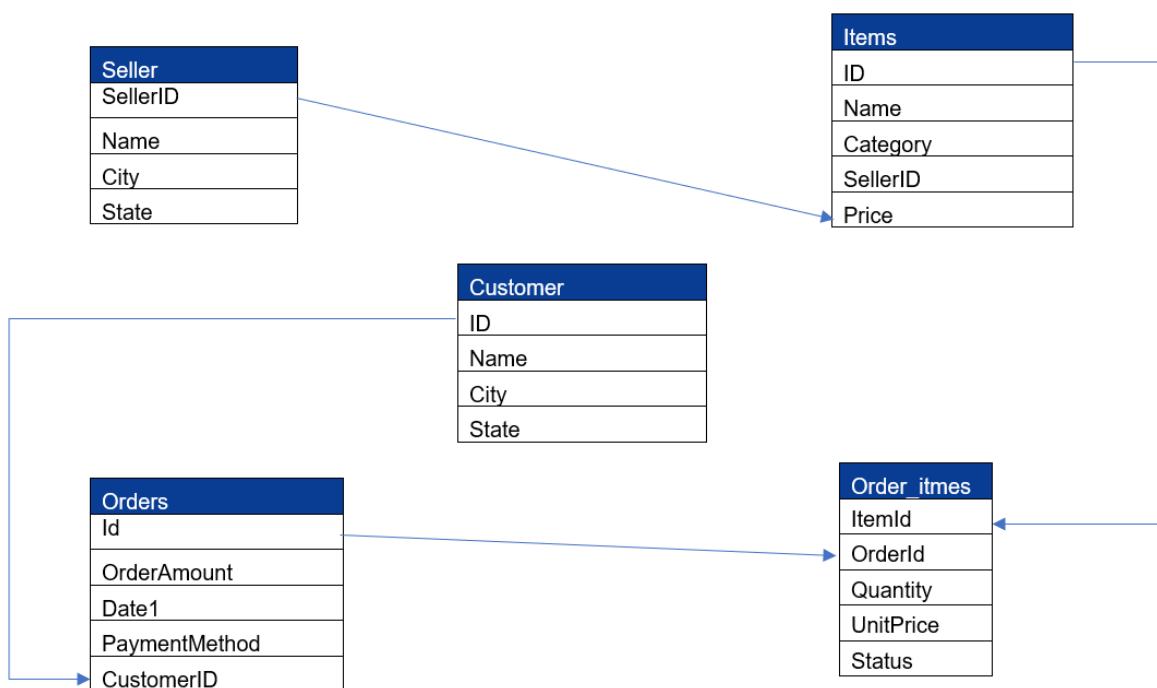
**Note:** Same kind of item can be sold by different sellers, though the name of such items may be same but ID will be unique.

**Customer:** table which contains customers who have signed up/created account on our website.

**Orders:** table that contains customer order details.

**OrderItem:** table which contains the details of the items of all the orders.

**Note:** single order can contain multiple items.



Write SQL queries to get the below answers;

**Note:** table creation and data for the same is present in page3.

1. Daily orders count and Total amount
2. Daily orders count and order amount of cancelled orders
3. Payment method distribution
4) How many customers are there from Bangalore?
5) How many orders have come from Delhi?
6) when and from Which city was the first order for each category has been placed? If there is no order for any Category then Display it as NA.

7) Which sellers sell in multiple categories?
8) Find the Primary category for each sellers? Primary category is the one which contribute the highest sales for that seller
9) which customer has ordered more frequently than others.? Hint : find out the average order gap for each customers and check who has the lowest average order gap.
10)what is the percentage sales contribution of each item to their respective categories?
11) How many Jaipur customers have purchased in Mobile category?
12) Top 5 products ordered?
13) which product has received the highest total sales?
14) Top 5 categories in terms of sales?
15) Top 5 products in each category in terms of numbers of units sold?
16) Highest number of orders comes from which city?
17) How many sellers sell iphone? ( be it any model)
18) Which seller has not achieved any order till date?
19 ) which seller do not sell in which category?
20 ) which seller has highest number of listings?
21 ) What is the average order value in each category?
22) Which payment method is widely used by customers?
23) List of employees who always transact in cash?
24) On which day highest number of orders have been ordered?
25) How many orders are there in which customer's city and seller's city are same? ( This is called Regional Utilization (RU), Where demand and supply are from the same region)
26) which city supplies most number of products in Men's clothing ? Note : Supply comes from the sellers.
27) How many products would be there in an order on an average
28) which products combination has been ordered the highest ?
29) If the company decided to give cashback to customer, 5% cashback on first order, 10% on all the subsequent orders, calculate the total cashback each customer has received till date/
30) Classify the customers into : a) Gold b) Silver C) Bronze Gold : total order value till date is greater than 5000, Silver : total order value till date is between 3000 and 5000 Bronze : total order value till date is less than 2000

- Use the below query to create tables and insert data to the same.

```

Create table Items
(ID Int ,
Name varchar(50) ,
Category varchar(50) ,
SellerID Int ,
Price Int
);

Insert into Items
values
(20, 'iphone x' , 'Mobile' ,1001, 45000),
(21, 'iphone x' , 'Mobile' ,1002, 46000),
(22, 'Black Shirt' , 'Menclothing' ,1001, 600),
(23, 'WomenwesternWear' , 'WomenwesternWear' ,1001, 700),
(24, 'Women black Jeans' , 'WomenwesternWear' ,1001, 1500),
(25, 'Silicon Samsung f11 mobile case' , 'MobileProtection' ,1002, 200),
(26, 'Flying machine t shirt' , 'Menclothing' ,1002, 800),
(27, 'Flying machine shorts' , 'MensBottomwear' ,1003, 400),
(28, 'Peter England shorts' , 'MensBottomwear' ,1003, 350),
(29, 'iphone xi' , 'Mobile' ,1004, 49000),
(30, 'iphone xii' , 'Mobile' ,1004, 53000),
(31, 'Samsung Galaxy s4' , 'Mobile' ,1005, 48345),
(32, 'Samsung Galaxy f5' , 'Mobile' ,1005, 19800);

Create table seller
(SellerID Int,
Name Varchar(50),
City Varchar(50),
State Varchar(50)
);

Insert into seller values
(1001, 'Suzcorp ' , 'Banglore ' , 'Karnataka' ),
(1002, 'Zappos' , 'Banglore ' , 'Karnataka' ),
(1003, 'Tripod' , 'Pune' , 'Maharashtra' ),
(1004, 'Vinayaka Store' , 'Mumbai' , 'Maharashtra' ),
(1005, 'Rajom center' , 'Chennai' , 'Tamilnadu' );

Create table customer
(
ID Int,
Name Varchar,
City Varchar,
State Varchar);

Insert into customer
Values

```

```
(1, 'Abhishek' , 'Banglore' , 'Karnataka' ),
(2, 'Krishna' , 'Banlgore' , 'Karnataka' ),
(3, 'Ananya' , 'Chennai' , 'Tamilnadu' ),
(4, 'Prashanth' , 'Pune' , 'Maharashtra' ),
(5, 'Arpitha' , 'Pune' , 'Maharashtra' ),
(6, 'Ram' , 'Mumbai' , 'Maharashtra' );
```

Create table Orders

```
(Id INT,
OrderAmount int,
date1 date,
PaymnetMethod Varchar(50),
CustomerID int
);
```

Insert into orders

Values

```
(101, 45800 , '08/01/2023' , 'Cash', 1),
(102, 3500 , '08/01/2023' , 'Phonepe', 2),
(103, 200 , '08/01/2023' , 'CreditCard', 1),
(104, 106000 , '08/01/2023' , 'DebitCard', 2),
(105, 19800 , '08/01/2023' , 'CreditCard', 5),
(106, 138000 , '08/01/2023' , 'DebitCard', 6),
(107, 350 , '09/01/2023' , 'Phonpe', 1),
(108, 201680 , '09/01/2023' , 'Cash', 5),
(109, 53800 , '09/01/2023' , 'cash', 4),
(110, 229600 , '10/01/2023' , 'CreditCard', 1),
(111, 48200 , '10/01/2023' , 'CreditCard', 2),
(112, 159200 , '10/01/2023' , 'CreditCard', 3),
(113, 4200 , '10/01/2023' , 'DebitCard', 6),
(114, 241050 , '11/01/2023' , 'DebitCard', 5),
(115, 200650 , '11/01/2023' , 'CreditCard', 1),
(116, 94900 , '12/01/2023' , 'CreditCard', 5),
(117, 46750 , '12/01/2023' , 'DebitCard', 4),
(118, 49000 , '12/01/2023' , 'Phonepe', 2);
```

Create table orderItems

```
(
ItemId Int,
OrderId Int,
Quantity Int,
Unitprice Int,
Status Varchar(50)
);
```

Insert into OrderItems

values

```
(20,101, 1 ,45000, 'Order_delivered'),
```

```
(26,101, 1 ,800, 'Order_delivered'),
(22,102, 2 ,600, 'Shipped'),
(24,102, 1 ,1500, 'Cancelled'),
(27,102, 2 ,400, 'Shipped'),
(25,103, 1 ,200, 'Order_delivered'),
(30,104, 2 ,53000, 'Order_placed'),
(32,105, 1 ,19800, 'Order_delivered'),
(21,106, 3 ,46000, 'Order_delivered'),
(28,107, 1 ,350, 'Order_delivered'),
(31,108, 4 ,48345, 'Order_delivered'),
(25,108, 1 ,200, 'Order_delivered'),
(24,108, 5 ,1500, 'Order_delivered'),
(22,108, 1 ,600, 'Order_delivered'),
(27,109, 2 ,400, 'Cancelled'),
(30,109, 1 ,53000, 'Cancelled'),
(25,110, 3 ,200, 'Cancelled'),
(20,110, 1 ,45000, 'Shipped'),
(21,110, 4 ,46000, 'Shipped'),
(21,111, 1 ,46000, 'Order_delivered'),
(22,111, 3 ,600, 'Order_delivered'),
(27,111, 1 ,400, 'Order_delivered'),
(30,112, 3 ,53000, 'Shipped'),
(25,112, 1 ,200, 'Order_delivered'),
(24,113, 2 ,1500, 'Order_delivered'),
(25,113, 2 ,200, 'Order_delivered'),
(27,113, 2 ,400, 'Cancelled'),
(28,114, 3 ,350, 'Order_delivered'),
(29,114, 1 ,49000, 'Order_delivered'),
(30,114, 1 ,53000, 'Shipped'),
(21,114, 3 ,46000, 'Shipped'),
(29,115, 4 ,49000, 'Order_delivered'),
(22,115, 2 ,600, 'Order_delivered'),
(28,115, 1 ,350, 'Order_delivered'),
(24,115, 1 ,1500, 'Shipped'),
(27,115, 4 ,400, 'Order_delivered'),
(21,116, 2 ,46000, 'Order_delivered'),
(25,116, 3 ,200, 'Order_delivered'),
(24,116, 1 ,1500, 'Order_delivered'),
(27,116, 2 ,400, 'Order_delivered'),
(21,117, 1 ,46000, 'Shipped'),
(27,117, 1 ,400, 'Shipped'),
(28,117, 1 ,350, 'Order_placed'),
(29,118, 1 ,49000, 'Order_placed');
```