**1.Write a Query that will return the Customer’s name, state, and order date if they were in the month of February and in the states of Illinois and Michigan.**

Select cust\_name

,order\_date

,cust\_state

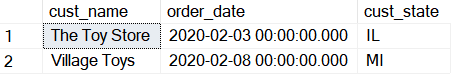
From Orders o, customers c

Where DATEPART(MONTH,order\_date) = 2 and

o.cust\_id=c.cust\_id and

cust\_state in ('MI','IL')

Results:



**2.Write a SQL Statement that will return the Sales Rep and their total amount of sales by millions.**

select (CONCAT( RepFirstName,' ', RepLastName)) AS Sales\_Rep

,Round(Sum((SalesTotal)/1000000),1) as Total\_by\_Mil

From examples.dbo.SalesTotals ST ,examples.dbo.SalesReps SR

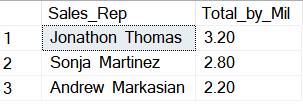
Where St.RepID=SR.RepID

Group by (CONCAT( RepFirstName,' ', RepLastName))

Having Round(Sum((SalesTotal)/1000000),1) > 1

Order by Total\_by\_Mil DESC;

Results:



**3.Write a SQL statement that shows: the customer’s name, name of the product ordered, the total order price of each order, and finally who the vendor was for each product.**

Select c.cust\_id

,cust\_name

,prod\_name

,prod\_price

,quantity

,prod\_price\* quantity as Total\_Order\_Price

,vend\_name

From TestDB.dbo.OrderItems oi

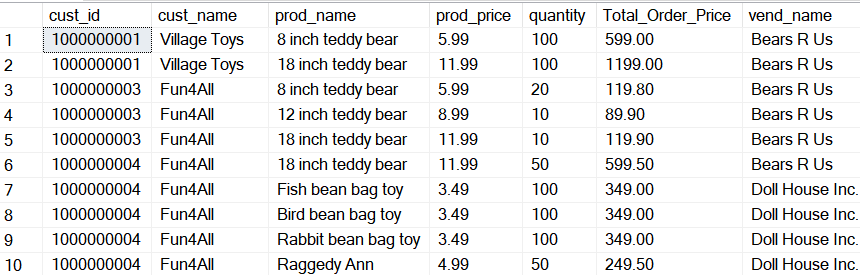
Join Orders O on oi.order\_num=o.order\_num

Join Customers C on o.cust\_id=c.cust\_id

Join Products p on oi.prod\_id=p.prod\_id

Join Vendors v on p.vend\_id=v.vend\_id

Results:



**4.Using the last query write a query that categorizes the size of e each order. If the total order price < $500 then it’s a small order, If the total order price is between $500 and $1,000 then medium, anything greater than $1,000 is a larger order. Return the count of each order rating from greatest to least.**

Select ISNull(Order\_Rating,'Total') as Order\_Rating

, Count (Order\_Rating) as Total\_count

From

(

Select c.cust\_id

,cust\_name

,prod\_name

,prod\_price

,quantity

,prod\_price\* quantity as Total\_Order\_Price

,vend\_name

,Case

When prod\_price\* quantity <500 Then 'Small Order'

When prod\_price\* quantity <1000 Then 'Medium Order'

Else 'Large Order'

End Order\_Rating

From TestDB.dbo.OrderItems oi

Join Orders O on oi.order\_num=o.order\_num

Join Customers C on o.cust\_id=c.cust\_id

Join Products p on oi.prod\_id=p.prod\_id

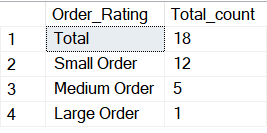
Join Vendors v on p.vend\_id=v.vend\_id

)as rating

group by Rollup(order\_rating)

Order by Total\_count DESC;

Results:



**5.Write a query that returns the : Agent’s CODE, Name , Workplace, total number of orders, the average order amount, total order amount per agent and the overall total Order amount who work in the United States.**

With agents as

(

SELECT

Distinct a.agent\_CODE

,A.AGENT\_NAME

,CONCAT(RTRIM(WORKING\_AREA),', ',COUNTRY) as Work\_Area

,Count(\*) Over ( Partition by o.Agent\_CODE) Total\_Num\_of\_Orders

,AVG(ORD\_AMOUNT) over (Partition by A.Agent\_CODE )AVG\_ORD\_Amount

,Sum(Ord\_Amount) Over ( Partition by A.Agent\_CODE ) ORD\_Amount\_Total\_per\_Agent

,Sum (ord\_amount) Over () Total\_Amount

FROM [Practice].[dbo].[AGENTS] a

Join ORDERS O on a.AGENT\_CODE=o.AGENT\_CODE

where Country IN ('USA')

)

Select \* From agents;

Results: