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\*  
\* PROJECT    :  Global Superstore  
\* AUTHOR     :  Sharvaree Raut  
\* CREATED ON :  21/10/22  
\* DESCRIPTION: 1. City Sales vs Average Sales  
\*  
\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* MAINTENANCE LOG \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  
\* DATE     CHANGED BY        DESCRIPTION  
\* --------------------------------------------------------------------------------  
\* 21/10/2022    Sharvaree Raut             Created  
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with cte as

(SELECT fs.Sales as Sales,s.State\_Name,c.City\_Name

from Fact\_Sales fs

inner join LU\_Product p

on fs.Product\_ID=p.Product\_ID

inner join LU\_Customer cu

on fs.Customer\_ID=cu.Customer\_ID

inner join LU\_City c

on cu.City\_ID=c.City\_ID

inner join LU\_Product\_SubCategory ps

on p.Product\_SubCategory\_ID=ps.Product\_SubCategory\_ID

inner join LU\_Product\_Category pc

on ps.Product\_Category\_ID=pc.Product\_Category\_ID

inner join LU\_State s

on c.State\_ID=s.State\_ID

where s.State\_Name='Florida' and year(fs.Order\_Date)=2014 and pc.Product\_Category\_Desc in('Furniture','Office Supplies','Technologies')

),

cte2 as

(SELECT avg(fs.Sales) as "state level sales",s.State\_Name

from Fact\_Sales fs

inner join LU\_Product p

on fs.Product\_ID=p.Product\_ID

inner join LU\_Customer cu

on fs.Customer\_ID=cu.Customer\_ID

inner join LU\_City c

on cu.City\_ID=c.City\_ID

inner join LU\_Product\_SubCategory ps

on p.Product\_SubCategory\_ID=ps.Product\_SubCategory\_ID

inner join LU\_Product\_Category pc

on ps.Product\_Category\_ID=pc.Product\_Category\_ID

inner join LU\_State s

on c.State\_ID=s.State\_ID

where s.State\_Name='Florida' and year(fs.Order\_Date)=2014 and pc.Product\_Category\_Desc in('Furniture','Office Supplies','Technologies')

group by s.State\_Name)

select b.State\_Name,a.City\_Name,a.Sales,b.[state level sales],b.[state level sales]-a.Sales as "Difference"

from cte as a join cte2 as b

on a.State\_Name=b.State\_Name

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\*  
\* PROJECT    :  Global Superstore  
\* AUTHOR     :  Sharvaree Raut  
\* CREATED ON :  21/10/22  
\* DESCRIPTION: 2. Sales by product category  
\*  
\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* MAINTENANCE LOG\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  
\* DATE     CHANGED BY        DESCRIPTION  
\* --------------------------------------------------------------------------------  
\* 21/10/2022    Sharvaree Raut             Created  
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select sum([Profit]) Profit , sum([Quantity]) Quantity , sum([Sales]) Sales , [Product\_SubCategory\_Desc] from [dbo].[Fact\_Sales] fs

join LU\_Product p on p.Product\_ID=fs.Product\_ID

join LU\_Product\_SubCategory lps on lps.Product\_SubCategory\_ID=p.Product\_SubCategory\_ID

join LU\_Product\_Category lpc on lpc.Product\_Category\_ID=lps.Product\_Category\_ID

group by Product\_SubCategory\_Desc;

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\*  
\* PROJECT    :  Global Superstore  
\* AUTHOR     :  Sharvaree Raut  
\* CREATED ON :  21/10/22  
\* DESCRIPTION: 3. Top 5 and Bottom Customers Vs All  
\*  
\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* MAINTENANCE LOG\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  
\* DATE     CHANGED BY        DESCRIPTION  
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\* 21/10/2022    Sharvaree Raut             Created  
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select top 5(Customer\_Name) top\_5\_Customer , fs.Sales from LU\_Customer lc

join Fact\_Sales fs on fs.Customer\_ID=lc.Customer\_ID

order by fs.sales desc

select top 5(Customer\_Name) bottom\_5\_Customer , fs.Sales from LU\_Customer lc

join Fact\_Sales fs on fs.Customer\_ID=lc.Customer\_ID

order by fs.sales

select lc.Customer\_Name All\_Customers , sum(Sales) Total from LU\_Customer lc

join Fact\_Sales fs on fs.Customer\_ID=lc.Customer\_ID

group by lc.Customer\_Name

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\* PROJECT    :  Global Superstore  
\* AUTHOR     :  Sharvaree Raut  
\* CREATED ON :  21/10/22  
\* DESCRIPTION: 4. Sales & Profit analysis by product hierarchy  
\*  
\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* MAINTENANCE LOG\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  
\* DATE     CHANGED BY        DESCRIPTION  
\* --------------------------------------------------------------------------------  
\* 21/10/2022    Sharvaree Raut             Created  
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with ycom as(

select pc.Product\_Category\_Desc, psc.Product\_SubCategory\_Desc, p.Product\_Name,sum(Profit) as profit,

lag(sum(Profit)) over ( order by year(order\_date)) as 'LY\_Profit',

sum(sales) as 'Current Year Sales',

lag(sum(Sales)) over ( order by year(order\_date)) as 'LY\_Sales'

from Fact\_Sales as fs

inner join LU\_Product as p

on p.Product\_ID = fs.Product\_ID

inner join LU\_Product\_SubCategory as psc

on psc.Product\_SubCategory\_ID = p.Product\_SubCategory\_ID

inner join LU\_Product\_Category as pc

on pc.Product\_Category\_ID = psc.Product\_Category\_ID

group by p.Product\_Name, pc.Product\_Category\_Desc, psc.Product\_SubCategory\_Desc, year(fs.Order\_Date)

)

select \*,(([current Year sales]-LY\_Sales)/LY\_Sales) as "% variance Sales" from ycom

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\* PROJECT    :  Global Superstore  
\* AUTHOR     :  Sharvaree Raut  
\* CREATED ON :  21/10/22  
\* DESCRIPTION: 5. Sales Vs Target Sales  
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\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* MAINTENANCE LOG\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  
\* DATE     CHANGED BY        DESCRIPTION  
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\* 21/10/2022    Sharvaree Raut             Created  
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select year(fst.Date\_ID) as Year,Month(fst.Date\_ID) as month, concat('$ ',sum(Sales)) as Sales, concat('$ ',sum(Target\_Sales)) as 'Target Sales'

from Fact\_Sales fs

join Fact\_Sales\_Target fst

on fst.Date\_ID = fs.Order\_Date

group by year(fst.Date\_ID), month(fst.Date\_ID)

order by 1,2;

where year(fst.Date\_ID) = 2011 (if want for any particular year)

group by year(fst.Date\_ID), month(fst.Date\_ID)

order by 1,2

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\*  
\* PROJECT    :  Global Superstore  
\* AUTHOR     :  Sharvaree Raut  
\* CREATED ON :  21/10/22  
\* DESCRIPTION: 6. Top Selling Quantities by Sub-Category / Product  
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\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* MAINTENANCE LOG\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  
\* DATE     CHANGED BY        DESCRIPTION  
\* --------------------------------------------------------------------------------  
\* 21/10/2022    Sharvaree Raut             Created  
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select top 10[Product\_SubCategory\_Desc] , sum(fs.Quantity) Count\_of\_quantity from Fact\_Sales fs

join LU\_Product p on p.Product\_ID=fs.Product\_ID

join LU\_Product\_SubCategory lps on lps.Product\_SubCategory\_ID=p.Product\_SubCategory\_ID

group by Product\_SubCategory\_Desc

order by 2 desc