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SELECT*
FROM Orders$;

--TOTAL SALES AND PROFIT
SELECT distinct SUM(PROFIT) AS 'TOTAL PROFIT', SUM(SALES) AS 'TOTAL SALES'
FROM Orders$;

--SEGMENT, CATEGORY AND REGION WISE SALES AND PROFIT
SELECT Region,Segment,category,SUM(PROFIT) AS 'TOTAL PROFIT', SUM(SALES) AS 'TOTAL
SALES'
FROM Orders$
GROUP BY Category, Segment,Region
ORDER BY Region,Segment,Category;

--state with highest profit
select top 1 State,SUM(profit)
from Orders$
group by State
order by SUM(profit) desc;

--state with lowest profit
select top 1 State,SUM(profit)
from Orders$
group by State
order by SUM(profit);

--Fetch the segment level avg of sales
select avg(total_sales_of_segment) as average
from (select Segment , sum(sales) as total_sales_of_segment
from Orders$
group by Segment) as segment_table;

---Fetch the city level avg of no. of orders placed
select AVG(total_orders), City
from (select distinct City, COUNT(distinct [Order ID]) as total_orders
from Orders$
group by City) as city_table
group by City;

select AVG(total_orders)
from (select distinct City, COUNT(distinct [Order ID]) as total_orders
from Orders$
group by City) as city_table;

--- Datediff(interval,date2,date1)
select DATEDIFF(day,[Order Date],[Ship Date]) as ship_delay
from Orders$;

--MONTHLY REVENUE OF YEARS 2016,2015,2014,2013
select DATEPART(year,[Order Date]) as years, DATEPART(month,[Order Date]) as
months,SUM(Profit) as revenue
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from Orders$
group by DATEPART(year,[Order Date]), DATEPART(MONTH,[Order Date])
order by DATEPART(year,[Order Date]) DESC, DATEPART(month,[Order Date]) ASC;

---MONTHLY ORDER VOLUME,YEARS WISE
select DATEPART(year,[Order Date]) as years, DATEPART(month,[Order Date]) as months,COUNT(DISTINCT Quantity) AS TOTAL_ORDERS
from Orders$
group by DATEPART(year,[Order Date]), DATEPART(MONTH,[Order Date])
order by DATEPART(year,[Order Date]) DESC, DATEPART(month,[Order Date]) ASC;

---MONTHLY WISE TOTAL NO. OF ORDERS,YEARS WISE
select DATEPART(year,[Order Date]) as years, DATEPART(month,[Order Date]) as months,COUNT(DISTINCT [Order ID]) AS TOTAL_ORDERS
from Orders$
group by DATEPART(year,[Order Date]), DATEPART(MONTH,[Order Date])
order by DATEPART(year,[Order Date]) DESC, DATEPART(month,[Order Date]) ASC;

--REGION WISE REVENUE OF EACH MONTH IN EACH YEAR
select REGION,DATEPART(year,[Order Date]) as years, DATEPART(month,[Order Date]) as months,SUM(PROFIT) AS TOTAL_REVENUE
from Orders$
group by REGION,DATEPART(year,[Order Date]), DATEPART(MONTH,[Order Date])
order by DATEPART(year,[Order Date]) DESC, DATEPART(month,[Order Date]) ASC;

----REGION WISE SALES OF EACH MONTH IN EACH YEAR
select DATEPART(year,[Order Date]) as years, DATEPART(month,[Order Date]) as months, SUM(SALES) AS TOTAL_SALES
from Orders$
group by DATEPART(year,[Order Date]), DATEPART(MONTH,[Order Date])
order by DATEPART(year,[Order Date]) DESC, DATEPART(month,[Order Date]) ASC;

--YEAR WISE SALES, PROFIT,ORDERS , QUANTITY
select DATEPART(year,[Order Date]) as years,COUNT(DISTINCT Quantity) AS TOTAL_QUANTITY, FORMAT(SUM(PROFIT),'0') AS PROFITS,
FORMAT(SUM(SALES),'0') AS SALES, COUNT(DISTINCT [Order ID]) AS TOTAL_ORDERS
from Orders$
group by DATEPART(year,[Order Date])
order by DATEPART(year,[Order Date]) DESC;

--TOP 3 MONTHS BY SALES IN YEAR 2016
select TOP 3 DATEPART(MONTH,[Order Date]) as MONTHS,DATEPART(year,[Order Date]) as years,
FORMAT(SUM(SALES),'0') AS SALES
from Orders$
group by DATEPART(year,[Order Date]),DATEPART(MONTH,[Order Date])
HAVING DATEPART(year,[Order Date]) = '2016'
order by SUM(SALES) DESC;

--TOP 5 CUSTOMER OF HIGHEST SALES IN 2016
SELECT TOP 5 [Customer ID],[Customer Name], SUM(SALES) AS TOTAL_SALES, DATEPART(YEAR,[Order Date]) AS YEARS
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FROM Orders$
GROUP BY [Customer ID],[Customer Name],DATEPART(YEAR,[Order Date])
HAVING DATEPART(YEAR,[Order Date]) = '2016'
ORDER BY 3 DESC;
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--TOP 5 PRODUCT OF HIGHEST SALES IN 2016

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SELECT TOP 5 [Product ID],[Product Name], SUM(SALES) AS TOTAL_SALES,DATEPART(YEAR,
[Order Date]) AS YEARS
FROM Orders$
GROUP BY[Product ID],[Product Name],DATEPART(YEAR,[Order Date])
HAVING DATEPART(YEAR,[Order Date])='2016'
ORDER BY 3 DESC;
```

--REGION OF MAX SALES IN 2016

```
SELECT TOP 1 Region, SUM(SALES) AS SALES,DATEPART(YEAR,[Order Date]) AS YEARS
FROM Orders$
GROUP BY Region,DATEPART(YEAR,[Order Date])
HAVING DATEPART(YEAR,[Order Date])='2016'
ORDER BY 2 DESC;
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--TOP 3 MONTHS BY PROFIT IN 2016

```
Select TOP 3 DATEPART(MONTH,[Order Date]) as MONTHS,DATEPART(year,[Order Date]) as
years,
FORMAT(SUM(Profit),'0') AS PROFITS
from Orders$
group by DATEPART(year,[Order Date]),DATEPART(MONTH,[Order Date])
HAVING DATEPART(year,[Order Date]) = '2016'
order by SUM(PROFIT) DESC;
```