

```

----- QUERING -----
USE northwind_traders;
----- TOTAL REVENUE -----
SELECT
    ROUND(SUM(Quantity * UnitPrice), 2) AS TotalRevenue
FROM order_details;

----- TOTAL NUMBER OF ORDERS -----
SELECT
    COUNT(*) AS TotalOrders
FROM orders;

----- MOST SELLING PRODUCT -----
SELECT
    TOP (1) productname, SUM(quantity) AS TotalQuantitySold
FROM order_details od
JOIN products p
    ON p.productid = od.productid
GROUP BY productname
ORDER BY TotalQuantitySold DESC;

----- TOP 5 BEST SELLING CATEGORIES -----
SELECT
    TOP (5) categoryname, ROUND(SUM(od.Quantity * od.UnitPrice),2) AS
TotalSalesAmount
FROM categories ct
JOIN products p
    ON p.categoryid = ct.categoryid
JOIN order_details od
    ON p.productid = od.productid
GROUP BY categoryname
ORDER BY TotalSalesAmount;

----- TOP 5 SELLERS (EMPLOYEES) -----
SELECT
    TOP (5) e.employeenname, ROUND(SUM(Quantity * UnitPrice),2) AS
TotalSalesAmount
FROM orders o
JOIN order_details od
    ON o.orderid = od.orderid
JOIN employees e
    ON o.employeeid = e.employeeid
GROUP BY o.employeeid, e.employeenname
ORDER BY TotalSalesAmount DESC;

----- TOP SELLING COUNTRIES -----
SELECT
    TOP (5) c.country, ROUND(SUM(Quantity * UnitPrice),2) AS
TotalSalesAmount
FROM customers c
JOIN orders o
    ON c.customerid = o.customerid
JOIN order_details od
    ON o.orderid = od.orderid
GROUP BY c.country
ORDER BY TotalSalesAmount DESC;

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----- TOTAL SALES BY COUNTRY & CITY -----
SELECT
    c.country, c.city, ROUND(SUM(Quantity * UnitPrice),2) AS
TotalSalesAmount
FROM customers c
JOIN orders o
    ON c.customerid = o.customerid
JOIN order_details od
    ON o.orderid = od.orderid
GROUP BY c.country, c.city
ORDER BY c.country, TotalSalesAmount DESC;

----- TOP 5 CUSTOMERS -----
SELECT
    TOP (5) c.contactname, ROUND(SUM(Quantity * UnitPrice),2) AS
TotalSalesAmount
FROM customers c
JOIN orders o
    ON c.customerid = o.customerid
JOIN order_details od
    ON o.orderid = od.orderid
GROUP BY c.contactname
ORDER BY TotalSalesAmount DESC;

----- TOTAL AMOUNT SPENT BY EACH CUSTOMER -----
SELECT
    c.contactname, ROUND(SUM(Quantity * UnitPrice),2) AS TotalSalesAmount
FROM customers c
JOIN orders o
    ON c.customerid = o.customerid
JOIN order_details od
    ON o.orderid = od.orderid
GROUP BY c.contactname
ORDER BY TotalSalesAmount DESC;

----- SALES OVER TIME (YEARLY, QUARTERLY & MONTHLY) -----
SELECT
    o.orderdate,
    YEAR(o.OrderDate) AS Year,
    DATENAME(QUARTER, o.OrderDate) AS Quarter,
    DATENAME(Month, o.OrderDate) AS Month,
    ROUND(SUM(Quantity * UnitPrice),2) AS TotalSalesAmount
FROM orders o
JOIN order_details od
    ON o.orderid = od.orderid
GROUP BY orderdate
ORDER BY orderdate ASC;

----- Total Quantity-----
select
    sum(quantity) Total_Quantity
from dbo.order_details;

----- Total Customers -----
select
    count(distinct customerID) Total_Customers
from customers;
-----

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----- Total Customers By Title Job-----

```
select
    count(distinct employeeID) Total_Employees,title
from employees
group by title;
```

----- total order with days required to shipped

```
SELECT
    daysRequiredForShipping,
    COUNT(*) AS CountOfOrders
FROM (
    SELECT
        orderId,
        DATEDIFF(day, orderDate, shippedDate) AS
daysRequiredForShipping
    FROM
        orders
    WHERE
        shippedDate IS NOT NULL
) AS a
GROUP BY daysRequiredForShipping;
```

----- Top 5 Product -----

```
SELECT
    TOP 5 COUNT(o.orderID) AS top_product,
    p.productName
FROM order_details o
JOIN products p ON o.productID = p.productID
GROUP BY p.productName
ORDER BY top_product DESC;
```

----- Lowest 5 Product -----

```
SELECT
    TOP 5 COUNT(o.orderID) AS low_product,
    p.productName
FROM order_details o
JOIN products p ON o.productID = p.productID
GROUP BY p.productName
ORDER BY low_product ;
```

-----Total Gross-----

```
select
    sum(od.quantity*od.unitPrice-od.discount*od.quantity-o.freight )
total
from order_details od
join orders o
on od.orderID=o.orderID;
```

----- average Day Required To Shipped By Company

```
SELECT c.companyName,
    AVG(DATEDIFF(day, o.orderDate, o.shippedDate)) AS avg_days_to_ship
FROM orders o
JOIN shippers c ON o.shipperID= c.shipperID
WHERE o.shippeddate IS NOT NULL
GROUP BY c.companyName;
```

-----Lowest 5 Customers -----

```
SELECT
    TOP (5) c.contactname, ROUND(SUM(Quantity * UnitPrice),2) AS
TotalSalesAmount
FROM customers c
JOIN orders o
    ON c.customerid = o.customerid
JOIN order_details od
    ON o.orderid = od.orderid
GROUP BY c.contactname
ORDER BY TotalSalesAmount ;
```

----- Total Customers Per Month

```
SELECT
    YEAR(o.orderDate) AS order_year,
    MONTH(o.orderDate) AS order_month,
    COUNT(DISTINCT o.customerID) AS num_customers
FROM orders o
GROUP BY YEAR(o.orderDate), MONTH(o.orderDate)
ORDER BY order_year, order_month;
```

----- Total Country -----

```
select
    count(distinct country) country
from customers
```

----- Total Cities -----

```
Select
    count(distinct city)
from customers
```