

SQLQuery3 - Copy.sql - DESKTOP-8B9POL5.f\_project (DESKTOP-8B9POL5\GOOGLE (51))\* - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

Quick Launch (Ctrl+Q)

f\_project

Execute

Object Explorer

Connect

DESKTOP-8B9POL5 (SQL Server 16.0.1000.6)

Databases

- System Databases
- Database Snapshots
- AdventureWorksDW2022
- AdventureWorksLT2022
- Ass2
- BookShop
- CostaSalesDb
- DEPI\_SQL
- f\_project
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  - Dropped Ledger Tables
  - Views
  - External Resources
  - Synonyms
  - Programmability
  - Query Store
  - Service Broker
  - Storage
  - Security
- final\_project
- HospitalDB

SQLQuery3 - Copy...POL5\GOOGLE (51))\* SQLQuery2.sql - not connected SQLQuery1.sql - not connected SQLQuery3.sql - not connected\*

```
create database f_project

use f_project

select * from [Final-project by Excel]

--CLEANING

--Check Nulls
SELECT COUNT(*) AS NO_of_Nulls
FROM [Final-project by Excel]
WHERE Customer_ID IS NULL OR Order_ID IS NULL ;

--Duplicates
SELECT Order_ID, Customer_ID, Product_ID ,sales,sub_category,COUNT(*) AS DuplicataCount
FROM [Final-project by Excel]
GROUP BY Order_ID, Customer_ID, Product_ID,Sales,sub_category
HAVING COUNT(*) > 1;
```

93 %

Results Messages

	NO_of_Nulls
1	0

Query executed successfully.

DESKTOP-8B9POL5 (16.0 RTM) | DESKTOP-8B9POL5\GOOGLE... | f\_project | 00:00:00 | 1 rows

Ready Ln 10 Col 1 Ch 1 INS

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AdventureWorksLT2022

Ass2

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CostaSalesDb

DEPI\_SQL

f\_project

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create database f_project

use f_project

select * from [Final-project by Excel]

--CLEANING

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SELECT COUNT(*) AS NO_of_Nulls
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WHERE Customer_ID IS NULL OR Order_ID IS NULL ;

--Duplicates
SELECT Order_ID, Customer_ID, Product_ID ,sales,sub_category,COUNT(*) AS DuplicataCount
FROM [Final-project by Excel]
GROUP BY Order_ID, Customer_ID, Product_ID,Sales,sub_category
HAVING COUNT(*) > 1;
```

93 %

Results Messages

Order_ID	Customer_ID	Product_ID	sales	sub_category	DuplicateCount
----------	-------------	------------	-------	--------------	----------------

Query executed successfully.

DESKTOP-8B9POL5 (16.0 RTM) DESKTOP-8B9POL5\GOOGLE... f\_project 00:00:00 0 rows

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```
SELECT COUNT(*) AS NO_of_Nulls
FROM [Final-project by Excel]
WHERE Customer_ID IS NULL OR Order_ID IS NULL ;

--Duplicates
SELECT Order_ID, Customer_ID, Product_ID ,sales,sub_category,COUNT(*) AS DuplicateCount
FROM [Final-project by Excel]
GROUP BY Order_ID, Customer_ID, Product_ID,Sales,sub_category
HAVING COUNT(*) > 1;

---Negative Sales (same error)
SELECT *
FROM [Final-project by Excel]
WHERE sales < 0 ;

select * from [Final-project by Excel]
```

93 %

Results Messages

Row_ID	Order_ID	Order_Date	Ship_Date	Order_to_ship_Duration	Ship_Mode	Customer_ID	Customer_Name	Segment	Country	City	State	Postal_Code	Region	Product_ID	Category	Sub_Category	Product_Name	Sales	Order_year	Ord
--------	----------	------------	-----------	------------------------	-----------	-------------	---------------	---------	---------	------	-------	-------------	--------	------------	----------	--------------	--------------	-------	------------	-----

Query executed successfully.

DESKTOP-8B9POL5 (16.0 RTM) | DESKTOP-8B9POL5\GOOGLE... | f\_project 00:00:00 0 rows

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SQLQuery3 - Copy...POL5\GOOGLE (51))\*

```
---Negative Sales (same error)
SELECT *
FROM [Final-project by Excel]
WHERE sales < 0 ;

select * from [Final-project by Excel]

--Sales Analysis
--What are the total sales by Region, State, and City?
SELECT city , state , Region , sum(sales) AS Total_Sales
from [Final-project by Excel]
group by city , state , Region
order by Total_Sales desc

--Which product is top-performing?
SELECT TOP 1 product_name, COUNT(product_id) AS top_product
FROM [Final-project by Excel]
```

93 %

Results

	city	state	Region	Total_Sales
1	New York City	New York	East	252462.546444774
2	Los Angeles	California	West	173420.180749893
3	Seattle	Washington	West	116106.321908593
4	San Francisco	California	West	109041.11938715
5	Philadelphia	Pennsylvania	East	108724.963819265
6	Houston	Texas	Central	63956.14268893
7	San Diego	California	West	47521.0289874077
8	Chicago	Illinois	Central	47411.3889036805
9	Detroit	Michigan	Central	42446.9439454079
10	Jacksonville	Florida	South	39133.3284211159
11	San Antonio	Texas	Central	21843.5282424688
12	Newark	Delaware	East	20319.9797592163
13	Dallas	Texas	Central	20127.9482029676
14	Lafayette	Indiana	Central	19624.509200573
15	Atlanta	Georgia	South	17187.8408050296
16	Minneapolis	Minnesota	Central	16870.5402622223
17	Springfield	Virginia	South	16628.5298421383

Query executed successfully.

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```
select * from [Final-project by Excel]

--Sales Analysis
--What are the total sales by Region, State, and City?
SELECT city , state , Region , sum(sales) AS Total_Sales
from [Final-project by Excel]
group by city , state , Region
order by Total_Sales desc

--Which product is top-performing?
SELECT TOP 1 product_name, COUNT(product_id) AS top_product
FROM [Final-project by Excel]
GROUP BY product_name
ORDER BY top_product DESC

--Which sub_category is top-performing?
SELECT TOP 1 sub_category , COUNT(sub_category) AS top_SubCategory
FROM [Final-project by Excel]
```

93 %

Results Messages

	product_name	top_product
1	Staple envelope	47

Query executed successfully.

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```
SELECT city , state , Region , sum(sales) AS Total_Sales
from [Final-project by Excel]
group by city , state , Region
order by Total_Sales desc

--Which product is top-performing?
SELECT TOP 1 product_name, COUNT(product_id) AS top_product
FROM [Final-project by Excel]
GROUP BY product_name
ORDER BY top_product DESC;

--Which sub_category is top-performing?
SELECT TOP 1 sub_category , COUNT(sub_category) AS top_SubCategory
FROM [Final-project by Excel]
GROUP BY sub_category
ORDER BY top_SubCategory DESC;

--Which category is top-performing?
SELECT TOP 1 category , COUNT(category) AS top_Category
FROM [Final-project by Excel]
```

93 %

Results Messages

	sub_category	top_SubCategory
1	Binders	1492

Query executed successfully.

DESKTOP-8B9POL5 (16.0 RTM) DESKTOP-8B9POL5\GOOGLE... f\_project 00:00:00 1 rows

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```
SELECT TOP 1 product_name, COUNT(product_id) AS top_product
FROM [Final-project by Excel]
GROUP BY product_name
ORDER BY top_product DESC;

--Which sub_category is top-performing?
SELECT TOP 1 sub_category, COUNT(sub_category) AS top_SubCategory
FROM [Final-project by Excel]
GROUP BY sub_category
ORDER BY top_SubCategory DESC;

--Which category is top-performing?
SELECT TOP 1 category, COUNT(category) AS top_Category
FROM [Final-project by Excel]
GROUP BY category
ORDER BY top_Category DESC;

--What is the Average value per Order ?
SELECT order_id, Round(avg(sales),2) AS AvgValuePerOrder
FROM [Final-project by Excel]
```

93 %

Results Messages

	category	top_Category
1	Office Supplies	5909

Query executed successfully.

DESKTOP-8B9POL5 (16.0 RTM) DESKTOP-8B9POL5\GOOGLE... f\_project 00:00:00 1 rows

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```
ORDER BY top_product DESC;

--Which sub_category is top-performing?
SELECT TOP 1 sub_category , COUNT(sub_category) AS top_SubCategory
FROM [Final-project by Excel]
GROUP BY sub_category
ORDER BY top_SubCategory DESC;

--Which category is top-performing?
SELECT TOP 1 category , COUNT(category) AS top_Category
FROM [Final-project by Excel]
GROUP BY category
ORDER BY top_Category DESC;

--What is the Average value per Order ?
SELECT order_id, Round(avg(sales),2) AS AvgValuePerOrder
FROM [Final-project by Excel]
group by order_id
order by order_id
```

93 %

Results Messages

	order_id	AvgValuePerOrder
1	CA-2015-100006	377.07
2	CA-2015-100090	349.6
3	CA-2015-100293	91.06
4	CA-2015-100328	3.93
5	CA-2015-100363	10.69
6	CA-2015-100391	14.62
7	CA-2015-100678	174.27
8	CA-2015-100706	64.72
9	CA-2015-100762	127.15
10	CA-2015-100880	18.75
11	CA-2015-100887	321.55
12	CA-2015-100891	302.38
13	CA-2015-100895	201.82
14	CA-2015-100916	262.95
15	CA-2015-100972	166.44
16	CA-2015-101147	2.39
17	CA-2015-101175	100.7

Query executed successfully.

DESKTOP-8B9POL5 (16.0 RTM) DESKTOP-8B9POL5\GOOGLE... f\_project 00:00:00 4,922 rows

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```
ORDER BY top_SubCategory DESC;

--Which category is top-performing?
SELECT TOP 1 category , COUNT(category) AS top_Category
FROM [Final-project by Excel]
GROUP BY category
ORDER BY top_Category DESC;

--What is the Average value per Order ?
SELECT order_id, Round(avg(sales),2) AS AvgValuePerOrder
FROM [Final-project by Excel]
group by order_id
order by order_id

-- Which season has the highest and lowest sales?
select season_of_order , round(sum(sales),2) AS Total_Sales
from [Final-project by Excel]
group by season_of_order
order by Total_Sales DESC ;
```

93 %

Results Messages

	season_of_order	Total_Sales
1	Fall	649468.46
2	Spring	486435.71
3	Winter	474734.17
4	Summer	448689.14

Query executed successfully.

DESKTOP-8B9POL5 (16.0 RTM) DESKTOP-8B9POL5\GOOGLE... f\_project 00:00:00 4 rows

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```
ORDER BY top_Category DESC;

--What is the Average value per Order ?
SELECT order_id, Round(avg(sales),2) AS AvgValuePerOrder
FROM [Final-project by Excel]
group by order_id
order by order_id

-- Which season has the highest and lowest sales?
Select season_of_order , round(sum(sales),2) AS Total_Sales
from [Final-project by Excel]
group by season_of_order
order by Total_Sales DESC ;

--Which days of the week (Order Day Name) have the most sales activity?
Select Order_Day_Name , count(Order_ID) AS Order_per_Day
from [Final-project by Excel]
group by Order_Day_Name
order by Order_per_Day DESC
```

93 %

Results Messages

	Order_Day_Name	Order_per_Day
1	Tuesday	1889
2	Saturday	1785
3	Sunday	1695
4	Monday	1593
5	Wednesday	1229
6	Friday	1067
7	Thursday	540

Query executed successfully.

DESKTOP-8B9POL5 (16.0 RTM) DESKTOP-8B9POL5\GOOGLE... f\_project 00:00:00 7 rows

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```
order by Order_per_Day DESC

select * from [Final-project by Excel]

--How does sales performance differ between different Sales Categories (Low, Medium, High) with orders and total sales ?
select Sales_Category , count(Order_ID) AS Order_per_SalesPerformance , round(sum(sales),2) AS Total_Sales
from [Final-project by Excel]
group by Sales_Category
order by Order_per_SalesPerformance DESC

--Which customer segment contributes the most to total revenue?
select segment , round(sum(sales),2) AS ToatlSales_by_Segment
from [Final-project by Excel]
group by segment
order by ToatlSales_by_Segment

select * from [Final-project by Excel]

--Who are 10 top high-value customers based on total sales?
```

93 %

Results Messages

	segment	ToatlSales_by_Segment
1	Home Office	423474.57
2	Corporate	688085.33
3	Consumer	1147768.57

Query executed successfully.

DESKTOP-8B9POL5 (16.0 RTM) | DESKTOP-8B9POL5\GOOGLE... | f\_project | 00:00:00 | 3 rows

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```
--Which customer segment contributes the most to total revenue?
Select segment , round(sum(sales),2) AS ToatlSales_by_Segment
from [Final-project by Excel]
group by segment
order by ToatlSales_by_Segment

select * from [Final-project by Excel]

--Who are 10 top high-value customers based on total sales?
select top 10 Customer_Name , round(sum(sales),2) AS TotalSales
from [Final-project by Excel]
group by Customer_Name
order by TotalSales DESC

--Which products are the best-selling and least-selling?
select top 1 Product_Name , round(sum(sales),2) AS TotalSales
from [Final-project by Excel]
group by Product_Name
```

93 %

Results Messages

	Customer_Name	TotalSales
1	Sean Miller	25043.05
2	Tamara Chand	19052.22
3	Raymond Buch	15117.34
4	Tom Ashbrook	14595.62
5	Adrian Barton	14473.57
6	Ken Lonsdale	14175.23
7	Sanjit Chand	14142.33
8	Hunter Lopez	12873.3
9	Sanjit Engle	12209.44
10	Christopher Conant	12129.07

Query executed successfully.

DESKTOP-8B9POL5 (16.0 RTM) | DESKTOP-8B9POL5\GOOGLE... f\_project | 00:00:00 | 10 rows

Ready Ln 90 Col 1 Ch 1 INS

Type here to search

10:38 PM 11-May-25

SQLQuery3 - Copy.sql - DESKTOP-8B9POL5.f\_project (DESKTOP-8B9POL5\GOOGLE (51))\* - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

Quick Launch (Ctrl+Q)

f\_project

Execute

Object Explorer

Connect

DESKTOP-8B9POL5 (SQL Server 16.0.1000.6)

Databases

- System Databases
- Database Snapshots
- AdventureWorksDW2022
- AdventureWorksLT2022
- Ass2
- BookShop
- CostaSalesDb
- DEPI\_SQL
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    - Graph Tables
  - dbo.Final-project by Excel
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    - Statistics
  - Dropped Ledger Tables
  - Views
  - External Resources
  - Synonyms
  - Programmability
  - Query Store
  - Service Broker
  - Storage
  - Security
- final\_project
- HospitalDB

SQLQuery3 - Copy...POL5\GOOGLE (51)\* SQLQuery2.sql - not connected SQLQuery1.sql - not connected SQLQuery3.sql - not connected\*

```
Select segment , round(sum(sales),2) AS ToatlSales_by_Segment
from [Final-project by Excel]
group by segment
order by ToatlSales_by_Segment

select * from [Final-project by Excel]

--Who are 10 top high-value customers based on total sales?
select top 10 Customer_Name , round(sum(sales),2) AS TotalSales
from [Final-project by Excel]
group by Customer_Name
order by TotalSales DESC

--Which products are the best-selling and least-selling?
select top 1 Product_Name , round(sum(sales),2) AS TotalSales
from [Final-project by Excel]
group by Product_Name
order by TotalSales DESC

--Least Selling
```

93 %

Results Messages

	Product_Name	TotalSales
1	Canon imageCLASS 2200 Advanced Copier	61590.82

Query executed successfully.

DESKTOP-8B9POL5 (16.0 RTM) | DESKTOP-8B9POL5\GOOGLE... | f\_project | 00:00:00 | 1 rows

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SQLQuery3 - Copy.sql - DESKTOP-8B9POL5.f\_project (DESKTOP-8B9POL5\GOOGLE (51))\* - Microsoft SQL Server Management Studio

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New Query MDX XMLA OLE DB

f\_project Execute

Object Explorer

Connect

DESKTOP-8B9POL5 (SQL Server 16.0.1000.6)

Databases

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SQLQuery3 - Copy...POL5\GOOGLE (51)\* SQLQuery2.sql - not connected SQLQuery1.sql - not connected SQLQuery3.sql - not connected\*

```
--Who are 10 top high-value customers based on total sales?
select top 10 Customer_Name , round(sum(sales),2) AS TotalSales
from [Final-project by Excel]
group by Customer_Name
order by TotalSales DESC

--Which products are the best-selling and least-selling?
select top 1 Product_Name , round(sum(sales),2) AS TotalSales
from [Final-project by Excel]
group by Product_Name
order by TotalSales DESC

--Least Selling
select top 1 Product_Name , round(sum(sales),2) AS TotalSales
from [Final-project by Excel]
group by Product_Name
Having round(sum(sales),2) > 0
order by TotalSales
```

93 %

Results Messages

	Product_Name	TotalSales
1	Eureka Disposable Bags for Sanitaire Vibra Groom...	1.62

Query executed successfully.

DESKTOP-8B9POL5 (16.0 RTM) DESKTOP-8B9POL5\GOOGLE... f\_project 00:00:00 1 rows

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SQLQuery3 - Copy.sql - DESKTOP-8B9POL5.f\_project (DESKTOP-8B9POL5\GOOGLE (51))\* - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

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Execute

Object Explorer

Connect

DESKTOP-8B9POL5 (SQL Server 16.0.1000.6)

Databases

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SQLQuery3 - Copy...POL5\GOOGLE (51)\*

```
from [Final-project by Excel]
group by Product_Name
Having round(sum(sales),2) > 0
order by TotalSales

--What is the average Order to Ship Duration across different Shipping Modes?
select Ship_Mode , avg(Order_to_ship_Duration) AS Order_to_ship_Duration
from [Final-project by Excel]
group by Ship_Mode
order by Order_to_ship_Duration DESC

--Which the fastest State prepare orders ?
SELECT state ,AVG(DATEDIFF(DAY, Order_Date, Ship_Date)) AS Avg_Order_to_Ship_Duration
FROM [Final-project by Excel]
GROUP BY state
ORDER BY Avg_Order_to_Ship_Duration ASC;
```

93 %

Results Messages

	Ship_Mode	Order_to_ship_Duration
1	Standard Class	5
2	Second Class	3
3	First Class	2
4	Same Day	0

Query executed successfully.

DESKTOP-8B9POL5 (16.0 RTM) DESKTOP-8B9POL5\GOOGLE... f\_project 00:00:00 4 rows

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SQLQuery3 - Copy.sql - DESKTOP-8B9POL5.f\_project (DESKTOP-8B9POL5\GOOGLE (51))\* - Microsoft SQL Server Management Studio

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f\_project

Execute

Object Explorer

Connect

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  - Programmability
  - Query Store
  - Service Broker
  - Storage
  - Security
- final\_project
- HospitalDB

SQLQuery3 - Copy...POL5\GOOGLE (51)\*

```
from [Final-project by Excel]
group by Product_Name
Having round(sum(sales),2) > 0
order by TotalSales

--What is the average Order to Ship Duration across different Shipping Modes?
select Ship_Mode , avg(Order_to_ship_Duration) AS Order_to_ship_Duration
from [Final-project by Excel]
group by Ship_Mode
order by Order_to_ship_Duration DESC

--Which the fastest State prepare orders ?
SELECT state ,AVG(DATEDIFF(DAY, Order_Date, Ship_Date)) AS Avg_Order_to_Ship_Duration
FROM [Final-project by Excel]
GROUP BY state
ORDER BY Avg_Order_to_Ship_Duration ASC;
```

93 %

Results Messages

	state	Avg_Order_to_Ship_Duration
1	North Dakota	2
2	Connecticut	3
3	Florida	3
4	Washington	3
5	Colorado	3
6	Texas	3
7	South Carolina	3
8	West Virginia	3
9	Pennsylvania	3
10	Massachusetts	3
11	Ohio	3
12	Louisiana	3
13	New Hampshire	3
14	Virginia	3
15	California	3
16	North Carolina	3
17	Vermont	3

Query executed successfully.

DESKTOP-8B9POL5 (16.0 RTM) | DESKTOP-8B9POL5\GOOGLE... f\_project | 00:00:00 | 49 rows

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