1. Total sales per country
SELECT Country, SUM(Quantity * UnitPrice) AS TotalSales FROM [online_sales_dataset]
GROUP BY Country

133 % ▼ 4

	Country	TotalSales
1	United Kingdom	5128232.81034303
2	Belgium	5124058.22157335
3	Germany	5111343.36001658
4	United States	5076174.16689837
5	France	5063516.5495925
6	Sweden	5028849.93913531
7	Spain	5014548.61777318
8	Portugal	4974618.95358932
9	Netherlands	4934815.53902054
10	Norway	4930232.34970832
11	Italy	4909348.59244263
12	Australia	4846793.98037243

ORDER BY TotalSales DESC;

2. Top 5 sold Products
SELECT Top 5 Description,SUM(Quantity) AS TotalQuantity FROM [online_sales_dataset]
GROUP BY Description
ORDER BY TotalQuantity DESC

133 % ▼

■ Results Results Messages

Description TotalQuantity
1 USB Cable 103574
2 Backpack 103513
3 Wall Clock 102745
4 White Mug 102541
5 Desk Lamp 102474

3. Average discount per discount method
SELECT PaymentMethod, AVG(Discount) AS AverageDiscount FROM [online_sales_dataset]
GROUP BY PaymentMethod;

133 % ▼ Messages

	PaymentMethod	AverageDiscount
1	Bank Transfer	0.273771126182397
2	paypall	0.278843817416149
3	Credit Card	0.274658690022696

```
4. Monthly Sales Trend
SELECT
   format(InvoiceDate,'yyyy-MM') AS Month,
   SUM(Quantity * UnitPrice) AS MonthlySales FROM [online_sales_dataset]
GROUP BY format(InvoiceDate,'yyyy-MM')
ORDER BY Month;
```

2021 05 006701 060160270

133 % 🕶 ■ Results ■ Messages Month MonthlySales 2020-01 887759.379284382 2020-02 835370.57154572 883590.609220147 2020-03 2020-04 908070.199005604 2020-05 880173.187980294 855703.768780828 2020-06 2020-07 866688.109365582 883435.270638466 2020-09 898178.258670211 2020-10 865361.84878242 2020-11 888830.131320477 2020-12 869754.540240884 2021-01 911491.508267403 2021-02 824679.587569594 2021-03 914196.490113139 5. Orders with negative quantity or price
SELECT * FROM [online_sales_dataset]
WHERE Quantity < 0 OR UnitPrice < 0;</pre>

	InvoiceNo	StockCode	Description	Quantity	InvoiceDate	UnitPrice	CustomerID	Country	Discount	PaymentMethod	ShippingCost	Category	SalesChannel	ReturnStatus	ShipmentProvider	W
	359178	SKU_1386	USB Cable	-30	2020-01-01 04:00:00.0000000	-68.1100006103516	NULL	United Kingdom	1.50143301486969	Bank Transfer	NULL	Electronics	In-store	Not Returned	FedEx	N
	451279	SKU_1617	Wall Clock	-2	2020-01-07 00:00:00.0000000	34.060001373291	NULL	Spain	0.340000003576279	Credit Card	NULL	Furniture	Online	Not Returned	DHL	N
	747972	SKU_1514	Desk Lamp	-26	2020-01-07 03:00:00.0000000	-72.3300018310547	NULL	Netherlands	1.97208654880524	paypall	NULL	Electronics	In-store	Not Returned	Royal Mail	N
	318969	SKU_1115	Desk Lamp	-19	2020-01-07 23:00:00.0000000	-3.60999989509583	NULL	Italy	1.05225431919098	Credit Card	NULL	Apparel	In-store	Not Returned	UPS	N
	285340	SKU_1710	Blue Pen	-3	2020-01-08 08:00:00.0000000	85.9499969482422	NULL	Netherlands	0.259999990463257	Credit Card	NULL	Accessories	In-store	Not Returned	UPS	1
	867595	SKU_1343	White Mug	-2	2020-01-09 07:00:00.0000000	-96.0800018310547	NULL	Portugal	1.70208752155304	Bank Transfer	NULL	Accessories	Online	Not Returned	FedEx	1
	937291	SKU_1936	Wall Clock	-16	2020-01-11 22:00:00.0000000	-73.5999984741211	NULL	Germany	1.53543996810913	Credit Card	NULL	Electronics	Online	Not Returned	DHL	1
	212547	SKU_1552	Wall Clock	-26	2020-01-13 04:00:00.0000000	-51.939998626709	NULL	Norway	1.5234671831131	Credit Card	NULL	Stationery	In-store	Not Returned	FedEx	1
	710269	SKU_1024	Wireless Mouse	-11	2020-01-14 02:00:00.0000000	-44.4000015258789	NULL	Germany	1.64775383472443	Bank Transfer	NULL	Apparel	Online	Not Returned	UPS	١
	391999	SKU_1593	Office Chair	-18	2020-01-14 18:00:00.0000000	16.9799995422363	NULL	Australia	0.209999993443489	paypall	NULL	Apparel	Online	Not Returned	Royal Mail	1
	798376	SKU_1242	Blue Pen	-38	2020-01-14 20:00:00.0000000	-76.9499969482422	NULL	Sweden	0.349999994039536	paypall	NULL	Apparel	In-store	Not Returned	UPS	١
	421184	SKU_1345	Wall Clock	-39	2020-01-15 05:00:00.0000000	84.8600006103516	NULL	Sweden	0.280000001192093	Bank Transfer	NULL	Electronics	In-store	Not Returned	Royal Mail	1
	760960	SKU_1535	Notebook	-15	2020-01-17 15:00:00.0000000	27.2999992370605	NULL	Sweden	0.409999996423721	paypall	NULL	Accessories	In-store	Returned	FedEx	١
	787995	SKU_1399	USB Cable	-32	2020-01-18 08:00:00.0000000	-98.6100006103516	NULL	France	1.58077704906464	Bank Transfer	NULL	Accessories	Online	Not Returned	UPS	N
	258823	SKU_1229	White Mug	-47	2020-01-19 22:00:00.0000000	98.1500015258789	NULL	Germany	0.140000000596046	Credit Card	NULL	Apparel	In-store	Returned	DHL	N
_	E44000	0001 4747	AND SO AN	40	2020 04 20 00 00 00 0000000	4 47000000000000	KILILI	_	1 22001 12 1002000	D 17 (KILLE	Et al. 1	0.10	D : 1	LIDO	B.1

6. Orders with missing customer id
SELECT * FROM [dbo].[online_sales_dataset]
WHERE CustomerID IS NULL;

	InvoiceNo	StockCode	Description	Quantity	InvoiceDate	UnitPrice	CustomerID	Country	Discount	PaymentMethod	ShippingCost	Category	SalesChannel	ReturnStatus	ShipmentProvid
1	359178	SKU_1386	USB Cable	-30	2020-01-01 04:00:00.0000000	-68.1100006103516	NULL	United Kingdom	1.50143301486969	Bank Transfer	NULL	Electronics	In-store	Not Returned	FedEx
2	655839	SKU_1047	Office Chair	48	2020-01-03 01:00:00.0000000	4.73999977111816	NULL	Belgium	0.219999998807907	Credit Card	23.1100006103516	Accessories	Online	Not Returned	UPS
3	305041	SKU_1731	Desk Lamp	45	2020-01-03 14:00:00.0000000	54.7900009155273	NULL	United Kingdom	0.230000004172325	Credit Card	8.97000026702881	Accessories	In-store	Not Returned	DHL
4	672843	SKU_1953	Headphones	3	2020-01-03 23:00:00.0000000	99.1699981689453	NULL	United States	0.0299999993294477	paypall	11.5799999237061	Stationery	Online	Not Returned	DHL
5	124300	SKU_1951	Headphones	8	2020-01-05 07:00:00.0000000	46.189998626709	NULL	Norway	0.100000001490116	Bank Transfer	12.8100004196167	Stationery	In-store	Not Returned	UPS
6	451279	SKU_1617	Wall Clock	-2	2020-01-07 00:00:00.0000000	34.060001373291	NULL	Spain	0.340000003576279	Credit Card	NULL	Furniture	Online	Not Returned	DHL
7	747972	SKU_1514	Desk Lamp	-26	2020-01-07 03:00:00.0000000	-72.3300018310547	NULL	Netherlands	1.97208654880524	paypall	NULL	Electronics	In-store	Not Returned	Royal Mail
8	318969	SKU_1115	Desk Lamp	-19	2020-01-07 23:00:00.0000000	-3.60999989509583	NULL	Italy	1.05225431919098	Credit Card	NULL	Apparel	In-store	Not Returned	UPS
9	872838	SKU_1491	Wall Clock	21	2020-01-08 05:00:00.0000000	32.0699996948242	NULL	Belgium	0.00999999977648258	Credit Card	9.78999996185303	Stationery	In-store	Not Returned	FedEx
10	285340	SKU_1710	Blue Pen	-3	2020-01-08 08:00:00.0000000	85.9499969482422	NULL	Netherlands	0.259999990463257	Credit Card	NULL	Accessories	In-store	Not Returned	UPS
11	542296	SKU_1447	Headphones	45	2020-01-09 03:00:00.0000000	56.4199981689453	NULL	Germany	0.419999986886978	Bank Transfer	25.2700004577637	Apparel	Online	Returned	UPS
12	981691	SKU_1962	Backpack	3	2020-01-09 06:00:00.0000000	2.73000001907349	NULL	Portugal	0.0900000035762787	Credit Card	17.3999996185303	Accessories	In-store	Not Returned	UPS
13	867595	SKU_1343	White Mug	-2	2020-01-09 07:00:00.0000000	-96.0800018310547	NULL	Portugal	1.70208752155304	Bank Transfer	NULL	Accessories	Online	Not Returned	FedEx
14	227948	SKU_1009	Office Chair	18	2020-01-10 00:00:00.0000000	42.6300010681152	NULL	United States	0.300000011920929	Credit Card	19.6900005340576	Stationery	In-store	Not Returned	UPS
15	328576	SKU_1327	Wall Clock	7	2020-01-10 09:00:00.0000000	68.379997253418	NULL	Netherlands	0.140000000596046	Credit Card	16.6299991607666	Electronics	Online	Not Returned	FedEx
	000100	01/11 10/10	188 % 88	20	2020 04 40 45 00 00 0000000	04 500000000770000	KILILI	A r P	0.40000000000000740	п	22 1700000702020	er in	0.0	MI ID I	e ie

7. Total shipping cost per shipment provider
SELECT ShipmentProvider, SUM(ShippingCost) AS TotalShippingCost FROM [online_sales_dataset]
GROUP BY ShipmentProvider
ORDER BY TotalShippingCost DESC;

133 % 🕶

	ShipmentProvider	TotalShippingCost
1	FedEx	208815.779973507
2	Royal Mail	207502.290050983
3	DHL	205760.270021439
4	UPS	205290.430053234

```
8. Top countries by number of returns

SELECT Country, COUNT(*) AS ReturnCount FROM [online_sales_dataset]

WHERE ReturnStatus = 'Returned'

GROUP BY Country

ORDER BY ReturnCount DESC;
```

33 % -■ Results ■ Messages ReturnCount Country 429 Australia 427 Germany Belgium 419 United Kingdom 411 410 France 405 Portugal 403 United States Norway 394 381 Spain

9. Average unit price per product category SELECT Category, AVG(UnitPrice) AS AvgPrice FROM [online_sales_dataset] GROUP BY Category;

133 % 🕶 🔻

■ Results ■ Messages

	Category	AvgPrice
1	Apparel	47.9976683121238
2	Stationery	47.3712499920012
3	Accessories	47.461282197981
4	Electronics	47.575696288597
5	Furniture	47.2906118412899

10. Customers with the highest total spend

SELECT Top(10) CustomerID, SUM(Quantity * UnitPrice) AS TotalSpent FROM [online_sales_dataset]

WHERE CustomerID IS NOT NULL

GROUP BY CustomerID

ORDER BY TotalSpent DESC

m	Results	e≣ M	lessages
SERVER	Custor		TotalSpent
1	21733	3	11806.3596801758
2	14461		11584.5499777794
3	68777	7	10987.3601913452
4	81067	7	10869.6801452637
5	98923	3	10420.5299682617
6	84431	ı	10332.1101303101
7	72172	2	10115.41015625

10063.920135498

9946.78974151611

9860.60976028442

42177

81631

11. Sales by warehouse location SELECT WarehouseLocation, SUM(Quantity * UnitPrice) AS TotalSales FROM [online_sales_dataset] GROUP BY WarehouseLocation ORDER BY TotalSales DESC;

133 % 🕶 🖣

■ Results 🖟 Messages

	WarehouseLocation	TotalSales
1	Amsterdam	11810017.1085383
2	Rome	11676284.4881352
3	Berlin	11661630.9659841
4	London	11656747.7719861
5	Paris	11471171.5704511
6	NULL	1866681.17537069

Output executed successfully

```
12. Identify Duplicate Invoices

SELECT InvoiceNo, COUNT(*) AS Count FROM [online_sales_dataset]

GROUP BY InvoiceNo

HAVING COUNT(*) > 1;
```

133 % 🔻 🔻

Results Messages

	InvoiceNo	Count
1	197143	2
2	365976	2
3	756884	2
4	465890	2
5	622349	2
6	218222	2
7	738447	2
8	633893	2
9	651872	2
10	225885	2
11	231458	2
12	583843	2
13	514526	2
14	457752	2
15	646900	2
16	921186	2
17	072522	2