```sql
-- Total Number of Transactions & Total Number Of Transaction %
select vendor, count(invoice_date) AS total_number_of_transactions,
round(cast(count(invoice_date) as decimal(10,2)) /
(select cast(count(invoice_date) as decimal(10,2)) from Approved_Invoices_2025) * 100, 2) AS
total_transactions_percent
from Approved_Invoices_2025
group by Vendor
order by total_number_of_transactions desc
```

	vendor	total_number_of_transactions	total_transactions_percent
1	finclass	333	11.3700000000000
2	lays of chelsea	287	9.8000000000000
3	albion fine foods	228	7.7800000000000
4	natoora	201	6.8600000000000
5	classic fine foods uk	178	6.0800000000000
6	add olives	150	5.1200000000000
7	chamberlain and thelwell	145	4.9500000000000
8	wrightbrothers	124	4.2300000000000
9	reach food service	90	3.0700000000000
10	the drinks club	90	3.0700000000000
11	brake bros	88	3.0000000000000

```sql
--  Total Number of Beverage Transactions & Total Number of beverage Transaction %
select vendor, count(invoice_date) AS total_number_of_beverage_transactions,
round(cast(count(invoice_date) as decimal(10,2)) /
(select cast(count(invoice_date) as decimal(10,2)) from Approved_Invoices_2025 where beverage_vendor =
'Y') * 100, 2) AS
total_number_of_beverage_transactions_percent
from Approved_Invoices_2025
where beverage_vendor = 'Y'
group by Vendor
order by total_number_of_beverage_transactions desc
```

	vendor	total_number_of_beverage_transactions	total_number_of_beverage_transactions_percent
1	the drinks club	90	26.2400000000000
2	speciality drinks	40	11.6600000000000
3	justerini & brooks	30	8.7500000000000
4	liberty wines	28	8.1600000000000
5	berkmann	23	6.7100000000000
6	gusbourne estate	21	6.1200000000000
7	thorman hunt wine shippers	20	5.8300000000000
8	theatre of wine	19	5.5400000000000
9	oeno trade	15	4.3700000000000
10	astrum wine cellars	14	4.0800000000000
11	jackson nugent vintners	13	3.7900000000000

```sql
-- Total Number of Food Transactions & Total Number of food Transaction %
select vendor, count(invoice_date) AS total_number_of_food_transactions,
cast(count(invoice_date) as decimal(10,2)) /
(select cast(count(invoice_date) as decimal(10,2)) from Approved_Invoices_2025 where beverage_vendor =
'N') * 100 AS
Total_Number_of_food_Transaction_percent
from Approved_Invoices_2025
where beverage_vendor = 'N'
group by Vendor
order by total_number_of_food_transactions desc
```

	vendor	total_number_of_food_transactions	Total_Number_of_food_Transaction_percent
1	finclass	333	12.8720525705400
2	lays of chelsea	287	11.0939311944300
3	albion fine foods	228	8.8132972555000
4	natoora	201	7.7696173173500
5	classic fine foods uk	178	6.8805566293000
6	add olives	150	5.7982218786200
7	chamberlain and thelwell	145	5.6049478160000
8	wrightbrothers	124	4.7931967529900
9	reach food service	90	3.4789331271700
10	brake bros	88	3.4016235021200
11	tk trading	80	3.0923850019300

```sql
-- High Ticket Transactions
select count(invoice_date) AS total_number_of_transactions from Approved_Invoices_2025
where net >
(select AVG(net) from Approved_Invoices_2025)

-- Updating the net column with the amount shown in Excel
update Approved_Invoices_2025
set Net = -897.5
where net is null

-- Total Net Expenses & Total Net Expenses %
select vendor, sum(net) AS total_net_purchases,
cast(sum(Net) as decimal(10,2)) /
(select cast(sum(Net) as decimal(10,2)) from Approved_Invoices_2025) * 100 AS
total_net_purchases_percent
from Approved_Invoices_2025
group by Vendor
order by total_net_purchases DESC
```

Results | Messages

	vendor	total_net_purchases	total_net_purchases_percent
1	finclass	103178.64	11.9444707455900
2	the drinks club	97339.03	11.2684485494200
3	lays of chelsea	91404.73	10.5814645695500
4	foodspeed	49401.45	5.7189566979600
5	brake bros	33534.5	3.8821199253800
6	speciality drinks	30640.29	3.5470718313500
7	classic fine foods uk	29450.95	3.4093879382800
8	chamberlain and thelwell	27733.55	3.2105732024200
9	albion fine foods	27687.47	3.2052387532400
10	natoora	27597.6	3.1948349566200
11	allpress-espresso	26840.53	3.1071927811900

```sql
-- Total Net Beverage Expenses & Total Net Beverage Expenses %
select vendor, sum(Net) AS total_net_beverage_purchases,
cast(sum(Net) as decimal(10,2)) /
(select cast(sum(Net) as decimal(10,2)) from Approved_Invoices_2025 where beverage_vendor = 'Y') * 100
AS
total_net_beverage_purchases_percent
from Approved_Invoices_2025
where beverage_vendor = 'Y'
group by Vendor
```

```
order by total_net_beverage_purchases DESC
```

	vendor	total_net_beverage_purchases	total_net_beverage_purchases_percent
1	the drinks club	97339.03	33.6297495584700
2	speciality drinks	30640.29	10.5859415190300
3	justerini & brooks	25571.31	8.8346550318200
4	berkmann	21830.75	7.5423255725200
5	liberty wines	21435.16	7.4056528254400
6	gusbourne estate	19307.34	6.6705103681400
7	oeno trade	14371.4	4.9651879909200
8	theatre of wine	11633.5	4.0192684423500
9	thorman hunt wine shippers	11288.93	3.9002226412400
10	ellis wines richmond	8167.54	2.8218107855400
11	jackson nugent vintners	7626.38	2.6348449274400

```
-- Total Net Food Expenses & Total Net Food Expenses %
select vendor, SUM(Net) AS total_net_food_purchases,
cast(sum(Net) as decimal(10,2)) /
(select cast(sum(Net) as decimal(10,2)) from Approved_Invoices_2025 where beverage_vendor = 'N') * 100
AS
total_net_food_purchases_percent
from Approved_Invoices_2025
where beverage_vendor = 'N'
group by Vendor
order by total_net_food_purchases DESC
```

	vendor	total_net_food_purchases	total_net_food_purchases_percent
1	finclass	103178.64	17.9636041579300
2	lays of chelsea	91404.73	15.9137432697600
3	foodspeed	49401.45	8.6008896088100
4	brake bros	33534.5	5.8384224063600
5	classic fine foods uk	29450.95	5.1274683197500
6	chamberlain and thelwell	27733.55	4.8284656019300
7	albion fine foods	27687.47	4.8204429833000
8	natoora	27597.6	4.8047964395400
9	allpress-espresso	26840.53	4.6729890635200
10	boulangerie de paris	18655.08	3.2478861192000
11	wrightbrothers	16994.83	2.9588333287900

```
-- PREVIOUS MONTH TOTAL TRANSACTIONS
WITH CTE AS (select c.Month_Number AS  Month_no, COUNT(a.invoice_date) AS total_number_of_transactions
from Approved_Invoices_2025 a
inner join Calendar c on c.Date = a.Invoice_Date
group by c.Month_Number)

SELECT *,
LAG(total_number_of_transactions) OVER(ORDER BY Month_no) AS previous_month_total_transactions
from CTE
```

Results | Messages

	Month_no	total_number_of_transactions	previous_month_total_transactions
1	10	410	NULL
2	11	410	410
3	12	364	410
4	2	3	364
5	3	35	3
6	4	158	35
7	5	322	158
8	6	317	322
9	7	321	317
10	8	243	321
11	9	347	243

```
-- Total Net Purchases & Total Net Purchases % by quarter and Total Net Purchases ranked by quarter

WITH CTE AS (select vendor, DATEPART(QUARTER, invoice_date) AS quarter, sum(net) AS
total_net_purchases,
cast(sum(Net) as decimal(10,2)) /
(select cast(sum(Net) as decimal(10,2)) from Approved_Invoices_2025) * 100 AS
total_net_purchases_percent
from Approved_Invoices_2025
group by Vendor, DATEPART(QUARTER, invoice_date)
order by quarter
OFFSET 0 ROWS)

SELECT *,
DENSE_RANK() OVER(PARTITION BY quarter ORDER BY total_net_purchases DESC) AS ranking
FROM CTE
```

	vendor	quarter	total_net_purchases	total_net_purchases_percent	ranking
1	speciality drinks	1	17658.45	2.0442296917000	1
2	the drinks club	1	9542.47	1.1046836220700	2
3	justerini & brooks	1	5803.22	0.6718095094100	3
4	goedhuis waddesdon	1	4950.21	0.5730608440800	4
5	liberty wines	1	2732.68	0.3163485806400	5
6	allpress-espresso	1	2700	0.3125653818700	6
7	theatre of wine	1	2659.86	0.3079185765300	7
8	oeno trade	1	2169.66	0.2511705949700	8
9	thorman hunt wine shippers	1	1779.42	0.2059944784500	9
10	astrum wine cellars	1	731.52	0.0846843807900	10
11	ellis wines richmond	1	272.82	0.0315829953600	11

```
-- Fetch the total net Purchases, previous month total net purchases, difference, and month-over-month
net Purchase change %

WITH CTE AS(select DATEPART(MONTH,a.Invoice_Date) AS month, SUM(net) AS total_net_purchases from
Approved_Invoices_2025 a
inner join Calendar c on c.Date = a.Invoice_Date
group by DATEPART(MONTH,a.Invoice_Date)
order by MONTH
OFFSET 0 ROWS)

select *,
LAG(total_net_purchases) OVER(ORDER BY month) AS previous_month_total_purchases,
ROUND(total_net_purchases - LAG(total_net_purchases) OVER(ORDER BY month),2) AS difference,
```

```
(total_net_purchases - LAG(total_net_purchases) OVER(ORDER BY month)) / LAG(total_net_purchases)
OVER(ORDER BY month) * 100 AS
MOM_net_purchase_change_percent
from CTE
```

Results | Messages

	month	total_net_purchases	previous_month_total_purchases	difference	MOM_net_purchase_change_percent
1	2	3713.06	NULL	NULL	NULL
2	3	47538.89	3713.06	43825.83	1180.31569648753
3	4	46394.13	47538.89	-1144.76	-2.40804949379339
4	5	90233.2	46394.13	43839.07	94.4927084525563
5	6	83122.39	90233.2	-7110.81	-7.88048079864172
6	7	81636.15	83122.39	-1486.24	-1.78801403568883
7	8	49983.73	81636.15	-31652.42	-38.772553580736
8	9	104170.61	49983.73	54186.88	108.409036300412
9	10	113838.36	104170.61	9667.75	9.28068867024967
10	11	125160.37	113838.36	11322.01	9.94568966032193
11	12	118028.38	125160.37	-7131.99	-5.69828133298105

```
-- Fetch the Total Net purchases, MTD, QTD, and YTD

WITH CTE AS (select Invoice_Date AS date, SUM(net) AS total_net_purchases from Approved_Invoices_2025
group by Invoice_Date
order by Invoice_Date
OFFSET 0 ROWS),

CTE1 AS (select *,
SUM(total_net_purchases) OVER(PARTITION BY YEAR(date), MONTH(date) ORDER BY date ROWS BETWEEN UNBOUNDED
PRECEDING AND CURRENT ROW) AS
MTD_total_net_expenses
from CTE),

CTE2 AS (select *,
SUM(total_net_purchases) OVER(PARTITION BY YEAR(date), DATEPART(QUARTER, date) ORDER BY date ROWS
BETWEEN UNBOUNDED PRECEDING AND CURRENT ROW)
AS QTD_total_net_purchases
from CTE1)

select *,
SUM(total_net_purchases) OVER(PARTITION BY YEAR(date) ORDER BY date ROWS BETWEEN UNBOUNDED PRECEDING
AND CURRENT ROW)
AS YTD_total_net_purchases
from CTE2
```

Results | Messages

	date	total_net_purchases	MTD_total_net_expenses	QTD_total_net_purchases	YTD_total_net_purcha...
1	2025-02-24	457.2	457.2	457.2	457.2
2	2025-02-27	2783.16	3240.36	3240.36	3240.36
3	2025-02-28	472.7	3713.06	3713.06	3713.06
4	2025-03-03	14980.01	14980.01	18693.07	18693.07
5	2025-03-04	767.52	15747.53	19460.59	19460.59
6	2025-03-05	272.82	16020.35	19733.41	19733.41
7	2025-03-06	3983.12	20003.47	23716.53	23716.53
8	2025-03-07	623.54	20627.01	24340.07	24340.07
9	2025-03-10	386.04	21013.05	24726.11	24726.11
10	2025-03-11	1142.22	22155.27	25868.33	25868.33
11	2025-03-12	893.7	23048.97	26762.03	26762.03
12	2025-03-13	894.54	23943.51	27656.57	27656.57
13	2025-03-14	531.3	24474.81	28187.87	28187.87
14	2025-03-18	456.25	24931.06	28644.12	28644.12
15	2025-03-24	9224.15	34155.21	37868.27	37868.27
16	2025-03-25	824.52	34979.73	38692.79	38692.79
17	2025-03-26	3072.34	38052.07	41765.13	41765.13
18	2025-03-31	9486.82	47538.89	51251.95	51251.95
19	2025-04-01	5509.4	5509.4	5509.4	56761.35
20	2025-04-02	380.1	5889.5	5889.5	57141.45
21	2025-04-04	528.54	6418.04	6418.04	57669.99

```sql
-- Fetch the Total Net purchases, 60-day rolling total net purchases, and 60 day rolling total net purchases AVG

WITH CTE AS (select Invoice_Date AS date, SUM(net) AS total_net_purchases from Approved_Invoices_2025
group by Invoice_Date
order by Invoice_Date
OFFSET 0 ROWS),

CTE1 AS (select *,
SUM(total_net_purchases) OVER(ORDER BY date ROWS BETWEEN 59 PRECEDING AND CURRENT ROW) AS
rolling_60_day_total_net_purchases
from CTE)

select *,
CAST(rolling_60_day_total_net_purchases / 60 AS decimal(10,2)) AS
rolling_60_day_total_net_purchases_AVG
from CTE1
```

Results | Messages

	date	total_net_purchases	rolling_60_day_total_net_purchases	rolling_60_day_total_net_purchases_AVG
10	2025-03-11	1142.22	25868.33	431.14
11	2025-03-12	893.7	26762.03	446.03
12	2025-03-13	894.54	27656.57	460.94
13	2025-03-14	531.3	28187.87	469.80
14	2025-03-18	456.25	28644.12	477.40
15	2025-03-24	9224.15	37868.27	631.14
16	2025-03-25	824.52	38692.79	644.88
17	2025-03-26	3072.34	41765.13	696.09
18	2025-03-31	9486.82	51251.95	854.20
19	2025-04-01	5509.4	56761.35	946.02

```sql
-- Fetch the daily cumulative(running) total net expenses and ratio total net purchases / cumulative

WITH CTE AS (select Invoice_Date AS date, SUM(net) AS total_net_purchases from Approved_Invoices_2025
group by Invoice_Date
order by Invoice_Date
OFFSET 0 ROWS),

CTE1 AS (select *,
SUM(total_net_purchases) OVER(ORDER BY date) AS running_total_net_purchases
from CTE)

select *,
CAST(total_net_purchases / running_total_net_purchases * 100 AS decimal(10,2)) AS ratio
from CTE1
```

Results | Messages

	date	total_net_purchases	running_total_net_purchases	ratio
1	2025-02-24	457.2	457.2	100.00
2	2025-02-27	2783.16	3240.36	85.89
3	2025-02-28	472.7	3713.06	12.73
4	2025-03-03	14980.01	18693.07	80.14
5	2025-03-04	767.52	19460.59	3.94
6	2025-03-05	272.82	19733.41	1.38
7	2025-03-06	3983.12	23716.53	16.79
8	2025-03-07	623.54	24340.07	2.56
9	2025-03-10	386.04	24726.11	1.56
10	2025-03-11	1142.22	25868.33	4.42

```sql
-- PREVIOUS MONTH TOTAL FOOD TRANSACTIONS
WITH CTE AS (select c.Month_Number AS  Month_no, COUNT(a.invoice_date) AS
total_number_of_food_transactions from Approved_Invoices_2025 a
inner join Calendar c on c.Date = a.Invoice_Date
where a.Beverage_Vendor = 'N'
group by c.Month_Number)

SELECT *,
LAG(total_number_of_food_transactions) OVER(ORDER BY Month_no) AS
previous_month_total_food_transactions
from CTE
```

	Month_no	total_number_of_food_transactions	previous_month_total_food_transactions
1	10	369	NULL
2	11	365	369
3	12	330	365
4	3	2	330
5	4	134	2
6	5	291	134
7	6	279	291
8	7	289	279
9	8	222	289
10	9	306	222

```sql
-- Total Net Food Purchases & Total Net Food Purchases % by quarter and Total Net Food Purchases ranked by quarter

WITH CTE AS (select vendor, DATEPART(QUARTER, invoice_date) AS quarter, sum(net) AS total_net_food_purchases,
cast(sum(Net) as decimal(10,2)) /
(select cast(sum(Net) as decimal(10,2)) from Approved_Invoices_2025 where Beverage_Vendor = 'N') * 100 AS total_net_food_purchases_percent
from Approved_Invoices_2025
where Beverage_Vendor = 'N'
group by Vendor, DATEPART(QUARTER, invoice_date)
order by quarter
OFFSET 0 ROWS)

SELECT *,
DENSE_RANK() OVER(PARTITION BY quarter ORDER BY total_net_food_purchases DESC) AS ranking
FROM CTE
```

Results | Messages

	vendor	quarter	total_net_food_purchases	total_net_food_purchases_percent	ranking
32	the sausage man	2	377.46	0.0657165283900	31
33	the gluten free bakery	2	209.25	0.0364308365500	32
34	malted waffle company	2	100.5	0.0174972476600	33
35	terra firma foods	2	77.2	0.0134406718300	34
36	finclass	3	28725.3	5.0011312275200	1
37	lays of chelsea	3	28232.53	4.9153390013300	2
38	foodspeed	3	18472.47	3.2160933590400	3
39	brake bros	3	10070.97	1.7533756847900	4
40	albion fine foods	3	8410.37	1.4642619586900	5
41	classic fine foods uk	3	8103.65	1.4108614034300	6

```sql
-- Fetch the total net Purchases, previous month total net purchases, difference, and month-over-month net Purchase change %

WITH CTE AS(select DATEPART(MONTH,a.Invoice_Date) AS month, SUM(net) AS total_net_food_purchases from Approved_Invoices_2025 a
inner join Calendar c on c.Date = a.Invoice_Date
where Beverage_Vendor = 'N'
group by DATEPART(MONTH,a.Invoice_Date)
order by MONTH
OFFSET 0 ROWS)

select *,
LAG(total_net_food_purchases) OVER(ORDER BY month) AS previous_month_total_food_purchases,
ROUND(total_net_food_purchases - LAG(total_net_food_purchases) OVER(ORDER BY month),2) AS difference,
(total_net_food_purchases - LAG(total_net_food_purchases) OVER(ORDER BY month)) /
LAG(total_net_food_purchases) OVER(ORDER BY month) * 100 AS
MOM_net_purchase_change_percent
from CTE
```

Results | Messages

	month	total_net_food_purchases	previous_month_total_food_purchases	difference	MOM_net_purchase_change_percent
1	3	2700	NULL	NULL	NULL
2	4	26581.24	2700	23881.24	884.49037037037
3	5	63273.64	26581.24	36692.4	138.038706997868
4	6	60015.2	63273.64	-3258.44	-5.14975904657926
5	7	59711.95	60015.2	-303.25	-0.505288660206057
6	8	38181.39	59711.95	-21530.56	-36.0573721005594
7	9	71693.37	38181.39	33511.98	87.7704557115391
8	10	81877.15	71693.37	10183.78	14.2046328691202
9	11	84138.8700000001	81877.15	2261.72	2.76233356925595
10	12	86203.24	84138.8700000001	2064.37	2.45352712723617