Prof SQL:

with cte as (

select store\_no,invoice\_number,sales\_date\_format,

SUBSTRING(MEMBERSHIP\_NBR, LEN(MEMBERSHIP\_NBR)-8+1, 8) as membership\_nbr,

ARTICLE\_NUMBER,QTY,SALES\_AMT\_WITHOUT\_TAx

,concat('Assited ',sub\_bu) as segment,CATEGORY

FROM

(

select store\_no,a.invoice\_number,a.sales\_date as sales\_date\_format,

a.membership\_nbr,

ARTICLE\_NUMBER,QTY,SALES\_AMT\_WITHOUT\_TAx,SUB\_BU,DIVISION,CATEGORY

from (

SELECT

HDR.SALES\_DATE\_FORMAT as sales\_date

,STORE\_NUMBER AS store\_no

,HDR.MEMBERSHIP\_NBR

,DET.SALES\_AMT\_WITHOUT\_TAX

,DET.COST\_AMT\_WITHOUT\_TAX

,DET.FREIGHT\_AMT\_WITHOUT\_TAX

,HDR.INVOICE\_NUMBER

,ARTICLE\_NUMBER

,QTY

FROM [stg].[BP\_TB\_S\_ZMAJOR\_SALES] HDR

INNER JOIN (SELECT \* FROM

(SELECT NEW\_B.STORE,NEW\_B.SALES\_DATE,NEW\_B.CHANNEL\_TYPE,NEW\_B.INVOICE\_NUMBER,NEW\_B.COST\_AMT\_WITHOUT\_TAX,

NEW\_B.ARTICLE\_NUMBER,NEW\_B.ITEM\_SEQUENCE\_NUMBER\_ON\_BILL,NEW\_B.PRICE\_OVERRIDE\_INDICATOR,

NEW\_B.QTY,NEW\_B.DISCOUNT\_INDICATOR,NEW\_B.DISCOUNT\_AMT\_WITH\_TAX,NEW\_B.SALES\_AMT\_WITHOUT\_TAX

,FREIGHT\_AMT\_WITHOUT\_TAX,CAST(SALES\_DATE AS DATE) AS SALES\_DATE\_FORMAT,

ROW\_NUMBER () OVER(PARTITION BY NEW\_B.STORE,NEW\_B.SALES\_DATE,NEW\_B.CHANNEL\_TYPE,NEW\_B.INVOICE\_NUMBER,

NEW\_B.ARTICLE\_NUMBER,NEW\_B.ITEM\_SEQUENCE\_NUMBER\_ON\_BILL,NEW\_B.PRICE\_OVERRIDE\_INDICATOR,NEW\_B.COST\_AMT\_WITHOUT\_TAX,

NEW\_B.QTY,NEW\_B.DISCOUNT\_INDICATOR,NEW\_B.DISCOUNT\_AMT\_WITH\_TAX,NEW\_B.SALES\_AMT\_WITHOUT\_TAX

,FREIGHT\_AMT\_WITHOUT\_TAX,CAST(SALES\_DATE AS DATE)

ORDER BY CAST(SALES\_DATE AS DATE) DESC) AS RowNumber

FROM [stg].[BP\_TB\_S\_ZMAJOR\_SALES\_ITEM] NEW\_B

WHERE CAST(NEW\_B.SALES\_DATE AS DATE)BETWEEN '2023-03-01' AND '2023-03-31' --CAST(DATEADD(DAY,-DAY(GETDATE())+1, CAST(GETDATE() AS DATE)) AS DATETIME) AND GETDATE()-1

AND ISNULL(DISTVOID,'HDR') <> 'X'

)K

WHERE RowNumber=1) DET

ON HDR.INVOICE\_NUMBER = DET.INVOICE\_NUMBER

AND HDR.SALES\_DATE\_FORMAT = DET.SALES\_DATE\_FORMAT AND hdr.store\_number = det.store )

a

left join

(SELECT DISTINCT ITEM\_NBR,SUB\_CAT,CATEGORY\_description as CATEGORY,SUB\_DIVISION,DIVISION FROM [stg].[BP\_TB\_S\_MST\_ZCV\_NZ\_MERCH\_HIER\_MASTER])c

ON a.ARTICLE\_NUMBER = C.ITEM\_NBR

inner JOIN

(SELECT distinct STORE\_NBR

,MEMBER\_NBR\_LONG,MIN(BDA\_VISIT\_DATE) AS BDA\_VISIT\_DATE

,CASE

WHEN BDA\_BU\_ID = 555 AND BU\_SUB\_CAT\_NBR = 51 THEN 'HoReCa'

WHEN BDA\_BU\_ID = 666 AND BU\_SUB\_CAT\_NBR = 61 THEN 'O&I Corp'

WHEN BDA\_BU\_ID = 777 AND BU\_SUB\_CAT\_NBR = 71 THEN 'KAM'

WHEN BDA\_BU\_ID = 888 AND BU\_SUB\_CAT\_NBR = 81 THEN 'SCG'

ELSE 'BLANK' END AS SUB\_BU

FROM [stg].[BP\_TB\_MST\_BEAT\_PLAN]

group by STORE\_NBR

,MEMBER\_NBR\_LONG,

CASE

WHEN BDA\_BU\_ID = 555 AND BU\_SUB\_CAT\_NBR = 51 THEN 'HoReCa'

WHEN BDA\_BU\_ID = 666 AND BU\_SUB\_CAT\_NBR = 61 THEN 'O&I Corp'

WHEN BDA\_BU\_ID = 777 AND BU\_SUB\_CAT\_NBR = 71 THEN 'KAM'

WHEN BDA\_BU\_ID = 888 AND BU\_SUB\_CAT\_NBR = 81 THEN 'SCG'

ELSE 'BLANK' END

,STR(YEAR(BDA\_VISIT\_DATE))+RIGHT('0' + RTRIM(MONTH(BDA\_VISIT\_DATE)), 2)

) [BEAT]

ON (CAST((SUBSTRING(a.MEMBERSHIP\_NBR, LEN(a.MEMBERSHIP\_NBR)-8+1, 8)) AS VARCHAR(20))) =SUBSTRING(BEAT.MEMBER\_NBR\_LONG, LEN(BEAT.MEMBER\_NBR\_LONG)-8+1, 8)

AND a.STORE\_no=BEAT.STORE\_NBR

AND a.SALES\_DATE BETWEEN DATEFROMPARTS(YEAR([BEAT].BDA\_VISIT\_DATE),MONTH([BEAT].BDA\_VISIT\_DATE),'01') AND EOMONTH([BEAT].BDA\_VISIT\_DATE)

) AS k

)

select sales\_date\_format,store\_no,membership\_nbr,CATEGORY,segment,sum(SALES\_AMT\_WITHOUT\_TAx) as sales

from cte

where segment in ('Assited HoReCa','Assited O&I Corp','Assited SCG','Assited KAM')

group by sales\_date\_format,store\_no,membership\_nbr,CATEGORY,segment

Total SQL:

DECLARE @START\_DATE DATE = '2023-03-01'

DECLARE @END\_DATE DATE = '2023-03-31'

SELECT

--CC.VIS\_MON,

--CC.VIS\_YR,

CAST(CC.VIS\_DATE AS DATE) VIS\_DATE,

CC.STORE\_NBR,

--CC.INVOICE\_NUMBER,

--CC.MEMBERSHIP\_ID,

--CC.MEMBERSHIP\_NUMBER AS MEMBERSHIP\_NBR,

--CC.CARD\_HOLDER\_NBR,

--CASE WHEN CC.CARD\_HOLDER\_NBR>20 THEN 'Secondary Card' ELSE 'Primary Card' END AS CARD\_TYPE,

ISNULL(CC.MEMBER\_SEGMENT,'Reseller-Small') AS MEMBER\_SEGMENT,

/\*CC.ITEM\_NUMBER,

CC.ITEM\_DESCRIPTION,

CC.BRAND,

CC.SUBCAT\_NBR,

CC.SUBCAT\_DESC, \*/

CC.CAT\_NBR,

CC.CAT\_DESC,

--CC.SUB\_DIVISION,

--CC.DIVISION,

CC.BU,

CASE WHEN CC.CARD\_HOLDER\_NBR>20 AND CC.BEAT\_INSTORE = 'Beat' AND CC.MEMBER\_SEGMENT IN ('Reseller-Small','Reseller-Wholesaler') AND CC.CHANNEL\_OLD = 'Ecom' THEN 'Un-Assisted Ecom'

WHEN CC.CARD\_HOLDER\_NBR>20 AND CC.BEAT\_INSTORE = 'Beat' AND CC.MEMBER\_SEGMENT IN ('Reseller-Small','Reseller-Wholesaler') AND CC.CHANNEL\_OLD = 'In-store' THEN 'In-store'

ELSE CC.CHANNEL\_NEW END AS CHANNEL\_ADD\_ON,

--CC.CHANNEL\_NEW,

--CC.CHANNEL\_OLD,

--CC.BEAT\_INSTORE,

SUM(CC.SALES) AS SALES

--SUM(CC.COST) AS COST,

--SUM(CC.UNITS) AS UNITS

FROM

(SELECT

BB.VIS\_MON,

BB.VIS\_YR,

BB.VIS\_DATE,

BB.STORE\_NBR,

BB.INVOICE\_NUMBER,

BB.MEMBERSHIP\_ID,

BB.MEMBERSHIP\_NUMBER,

BB.CARD\_HOLDER\_NBR,

BB.MEMBER\_SEGMENT,

BB.ITEM\_NUMBER,

BB.ITEM\_DESCRIPTION,

BB.BRAND,

BB.SUBCAT\_NBR,

BB.SUBCAT\_DESC,

BB.CAT\_NBR,

BB.CAT\_DESC,

BB.SUB\_DIVISION,

BB.DIVISION,

BB.BU,

--CASE WHEN BB.STORE\_NBR = 4812 THEN 'BDA' ELSE BB.CHANNEL1 END AS CHANNEL\_NEW,

BB.CHANNEL1 AS CHANNEL\_NEW,

BB.CHANNEL\_OLD,

BB.BEAT\_INSTORE,

SUM(BB.SALES) AS SALES,

SUM(BB.COST) AS COST,

SUM(BB.QTY) AS UNITS

FROM

(SELECT

AA.VIS\_MON,

AA.VIS\_YR,

AA.VIS\_DATE,

AA.STORE\_NBR,

AA.INVOICE\_NUMBER,

AA.MEMBERSHIP\_ID,

AA.MEMBERSHIP\_NUMBER,

AA.CARD\_HOLDER\_NBR,

AA.MEMBER\_SEGMENT,

AA.ITEM\_NUMBER,

AA.ITEM\_DESCRIPTION,

AA.BRAND,

AA.SUBCAT\_NBR,

AA.SUBCAT\_DESC,

AA.CAT\_NBR,

AA.CAT\_DESC,

AA.SUB\_DIVISION,

AA.DIVISION,

AA.BU,

CASE WHEN AA.BEAT\_INSTORE = 'Beat' then 'BDA'

WHEN (AA.BEAT\_INSTORE = 'Non-Beat' AND AA.BILLING\_CHANNEL = 'Ecom') THEN 'Un-Assisted Ecom'

ELSE 'In-store' END AS CHANNEL1,

AA.BILLING\_CHANNEL AS CHANNEL\_OLD,

AA.BEAT\_INSTORE,

SUM(AA.SALES) AS SALES,

SUM(AA.COST) AS COST,

SUM(AA.QTY) AS QTY

FROM

(SELECT

A.VIS\_MON,

A.VIS\_YR,

A.SALES\_DATE AS VIS\_DATE,

A.STORE\_NBR,

B.INVOICE\_NUMBER,

A.MEMBERSHIP\_ID,

A.MEMBERSHIP\_NUMBER,

A.CARD\_HOLDER\_NBR,

D.MEMBER\_SEGMENT,

B.ARTICLE\_NUMBER AS ITEM\_NUMBER,

C.ARTICLE\_DESCRIPTION AS ITEM\_DESCRIPTION,

C.BRAND\_NAME AS BRAND,

C.SUBCAT\_NBR,

F.SAP\_SUB\_CAT\_DESC AS SUBCAT\_DESC,

C.CAT\_NBR,

F.SAP\_CAT\_DESC AS CAT\_DESC,

F.SAP\_SUB\_DIV\_DESC AS SUB\_DIVISION,

F.SAP\_DIV\_DESC AS DIVISION,

F.BU,

A.BILLING\_CHANNEL,

CASE WHEN A.MEMBERSHIP\_NUMBER = E.MEMBER\_NBR\_LONG THEN 'Beat' ELSE 'Non-Beat' END AS BEAT\_INSTORE,

(SUM(B.SALES\_AMT\_WITHOUT\_TAX) - SUM(ISNULL(B.FREIGHT\_AMT\_WITHOUT\_TAX,0))) AS SALES,

SUM(B.COST\_AMT\_WITHOUT\_TAX) AS COST,

SUM(B.QTY) AS QTY

FROM (select \*, MONTH(SALES\_DATE\_FORMAT) AS VIS\_MON,

YEAR(SALES\_DATE\_FORMAT) AS VIS\_YR,

CAST(STORE\_NUMBER AS INT) AS STORE\_NBR,

CONCAT('11734',SUBSTRING(MEMBERSHIP\_NBR,1,2),'00',SUBSTRING(MEMBERSHIP\_NBR,3,LEN(MEMBERSHIP\_NBR))) AS MEMBERSHIP\_ID,

CAST((SUBSTRING(MEMBERSHIP\_NBR, LEN(MEMBERSHIP\_NBR)-8+1, 8)) AS BIGINT) AS MEMBERSHIP\_NUMBER,

CAST((SUBSTRING(MEMBERSHIP\_NBR,1,2)) AS INT) AS CARD\_HOLDER\_NBR,

CASE WHEN CHANNEL\_TYPE IN ('ZECM','ZEC1','ZEC2','ZEC3','ZRTE','ZRHY','ZES1') THEN 'Ecom'

WHEN CHANNEL\_TYPE IN ('ZBDA','ZBD1','ZBD2','ZBD3','ZRTB','ZRTL','ZSEZ','SEZR','ZKDR','ZKDP','BS1','ZBDA','ZBS1') THEN 'BDA'

WHEN CHANNEL\_TYPE IN ('ZFP','ZS2') THEN 'In-store' END AS BILLING\_CHANNEL

--CASE

-- WHEN CHANNEL\_TYPE IN ('ZECM', 'ZRTE', 'ZEC1','ZEC2','ZEC3') THEN 'Ecom'

-- WHEN CHANNEL\_TYPE IN ('SEZR', 'ZBD1', 'ZBDA', 'ZBS1', 'ZKDP', 'ZKDR', 'ZRTB', 'ZSEZ') THEN 'BDA'

-- ELSE 'In-store' END AS BILLING\_CHANNEL

from [stg].[BP\_TB\_S\_ZMAJOR\_SALES]) AS A

INNER JOIN (SELECT \* FROM

(SELECT CAST(NEW\_B.STORE AS INT) AS STORE,NEW\_B.SALES\_DATE,NEW\_B.CHANNEL\_TYPE,NEW\_B.INVOICE\_NUMBER,NEW\_B.COST\_AMT\_WITHOUT\_TAX,

NEW\_B.ARTICLE\_NUMBER,NEW\_B.ITEM\_SEQUENCE\_NUMBER\_ON\_BILL,NEW\_B.PRICE\_OVERRIDE\_INDICATOR,

NEW\_B.QTY,NEW\_B.DISCOUNT\_INDICATOR,NEW\_B.DISCOUNT\_AMT\_WITH\_TAX,NEW\_B.SALES\_AMT\_WITHOUT\_TAX,

NEW\_B.FREIGHT\_AMT\_WITHOUT\_TAX,CAST(NEW\_B.SALES\_DATE AS DATE) AS SALES\_DATE\_FORMAT,

ROW\_NUMBER () OVER(PARTITION BY NEW\_B.STORE,NEW\_B.SALES\_DATE,NEW\_B.CHANNEL\_TYPE,NEW\_B.INVOICE\_NUMBER,

NEW\_B.ARTICLE\_NUMBER,NEW\_B.ITEM\_SEQUENCE\_NUMBER\_ON\_BILL,NEW\_B.PRICE\_OVERRIDE\_INDICATOR,NEW\_B.COST\_AMT\_WITHOUT\_TAX,

NEW\_B.QTY,NEW\_B.DISCOUNT\_INDICATOR,NEW\_B.DISCOUNT\_AMT\_WITH\_TAX,NEW\_B.SALES\_AMT\_WITHOUT\_TAX,NEW\_B.FREIGHT\_AMT\_WITHOUT\_TAX,

CAST(NEW\_B.SALES\_DATE AS DATE) ORDER BY CAST(NEW\_B.SALES\_DATE AS DATE) DESC) AS RowNumber

FROM [stg].[BP\_TB\_S\_ZMAJOR\_SALES\_ITEM] NEW\_B

WHERE SALES\_DATE\_FORMAT BETWEEN @START\_DATE AND @END\_DATE

--WHERE SALES\_DATE\_FORMAT BETWEEN DATEFROMPARTS(YEAR(CAST(GETDATE()-1 AS DATE)),MONTH(CAST(GETDATE()-1 AS DATE)),'01') AND CAST(GETDATE()-1 AS DATE)

AND ISNULL(DISTVOID,'A') <> 'X') AS NEW\_D

WHERE RowNumber=1) AS B

ON A.STORE\_NBR=B.STORE AND A.INVOICE\_NUMBER = B.INVOICE\_NUMBER AND CAST(A.SALES\_DATE AS DATE)= B.SALES\_DATE\_FORMAT

INNER JOIN

(SELECT \*, CAST((SUBSTRING(MERCHANDISE\_CATEGORY,6,2)) AS INT) AS SUBCAT\_NBR,

CAST((SUBSTRING(MERCHANDISE\_CATEGORY,4,2)) AS INT) AS CAT\_NBR

FROM [stg].[BP\_TB\_S\_MST\_Z\_ARTICLE\_CREATION\_COG]) as C

ON B.ARTICLE\_NUMBER = C.ARTICLE\_NUMBER

LEFT JOIN

(SELECT \*, (CASE WHEN SEGMENT\_NEW IN ('Reseller-Small','O&I-Business Services','O&I-Corporates','Horeca','Reseller-Wholesaler') THEN SEGMENT\_NEW ELSE 'Reseller-Small' END) AS MEMBER\_SEGMENT

FROM [stg].[BP\_TB\_MST\_MAN\_MEMBER\_SIC]) AS D

ON A.MEMBERSHIP\_NUMBER = D.MEMBERSHIP\_NBR

LEFT JOIN (SELECT DISTINCT CAST(MEMBER\_NBR\_LONG AS BIGINT) AS MEMBER\_NBR\_LONG, STORE\_NBR, DATE

FROM [stg].[BP\_TB\_MST\_MAN\_BEAT]) AS E

ON A.MEMBERSHIP\_NUMBER = E.MEMBER\_NBR\_LONG

AND A.STORE\_NBR = E.STORE\_NBR

AND MONTH(A.SALES\_DATE\_FORMAT) = MONTH(E.DATE)

AND YEAR(A.SALES\_DATE\_FORMAT) = YEAR(E.DATE)

LEFT JOIN

(SELECT \*,

CASE

WHEN SAP\_DIV\_DESC IN ('CDIT & Electronics') THEN 'Electronics & CDIT'

WHEN SAP\_DIV\_DESC IN ('Fashion') THEN 'Fashion'

WHEN SAP\_DIV\_DESC IN ('Cafe','FMCG: Food','FMCG: Non-Food','Health & Wellness') THEN 'FMCG'

WHEN SAP\_DIV\_DESC IN ('General Merchandise') THEN 'General Merchandise'

WHEN SAP\_DIV\_DESC IN ('Fresh','Staples','Tobacco') THEN 'Staples'

END AS BU

FROM [stg].[BP\_SAP\_MCH\_HIER]) AS F

ON C.MERCHANDISE\_CATEGORY = F.SAP\_FINELINE

WHERE A.STORE\_NBR <> 4836 AND B.ARTICLE\_NUMBER <> ''

AND C.CAT\_NBR not IN (88,87,99) --(1,2,3,4,5,6,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,28,31,32,33,34,35,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,56,58,60,61,62,63,68,72,76,79,91,92,93,96)

GROUP BY A.VIS\_MON, A.VIS\_YR, A.SALES\_DATE, A.STORE\_NBR, B.INVOICE\_NUMBER, A.MEMBERSHIP\_ID, A.MEMBERSHIP\_NUMBER, A.CARD\_HOLDER\_NBR,

D.MEMBER\_SEGMENT, B.ARTICLE\_NUMBER, C.ARTICLE\_DESCRIPTION, C.BRAND\_NAME, C.SUBCAT\_NBR, F.SAP\_SUB\_CAT\_DESC, C.CAT\_NBR, F.SAP\_CAT\_DESC, F.SAP\_SUB\_DIV\_DESC,

F.SAP\_DIV\_DESC, F.BU, A.BILLING\_CHANNEL, CASE WHEN A.MEMBERSHIP\_NUMBER = E.MEMBER\_NBR\_LONG THEN 'Beat' ELSE 'Non-Beat' END) AS AA

GROUP BY AA.VIS\_MON, AA.VIS\_YR, AA.VIS\_DATE, AA.STORE\_NBR, AA.INVOICE\_NUMBER, AA.MEMBERSHIP\_ID, AA.MEMBERSHIP\_NUMBER, AA.CARD\_HOLDER\_NBR, AA.MEMBER\_SEGMENT,

AA.ITEM\_NUMBER, AA.ITEM\_DESCRIPTION, AA.BRAND, AA.SUBCAT\_NBR, AA.SUBCAT\_DESC, AA.CAT\_NBR, AA.CAT\_DESC, AA.SUB\_DIVISION, AA.DIVISION, AA.BU,

CASE WHEN AA.BEAT\_INSTORE = 'Beat' then 'BDA'

WHEN (AA.BEAT\_INSTORE = 'Non-Beat' AND AA.BILLING\_CHANNEL = 'Ecom') THEN 'Un-Assisted Ecom'

ELSE 'In-store' END, AA.BILLING\_CHANNEL, AA.BEAT\_INSTORE) AS BB

GROUP BY BB.VIS\_MON, BB.VIS\_YR, BB.VIS\_DATE, BB.STORE\_NBR, BB.INVOICE\_NUMBER, BB.MEMBERSHIP\_ID, BB.MEMBERSHIP\_NUMBER, BB.CARD\_HOLDER\_NBR,

BB.MEMBER\_SEGMENT,BB.ITEM\_NUMBER, BB.ITEM\_DESCRIPTION, BB.BRAND, BB.SUBCAT\_NBR, BB.SUBCAT\_DESC, BB.CAT\_NBR, BB.CAT\_DESC, BB.SUB\_DIVISION,

BB.DIVISION, BB.BU, BB.CHANNEL1, BB.CHANNEL\_OLD, BB.BEAT\_INSTORE) AS CC

GROUP BY --CC.VIS\_MON,

--CC.VIS\_YR,

CAST(CC.VIS\_DATE AS DATE) ,

CC.STORE\_NBR,

--CC.INVOICE\_NUMBER,

--CC.MEMBERSHIP\_ID,

--CC.MEMBERSHIP\_NUMBER AS MEMBERSHIP\_NBR,

--CC.CARD\_HOLDER\_NBR,

--CASE WHEN CC.CARD\_HOLDER\_NBR>20 THEN 'Secondary Card' ELSE 'Primary Card' END AS CARD\_TYPE,

ISNULL(CC.MEMBER\_SEGMENT,'Reseller-Small') ,

/\*CC.ITEM\_NUMBER,

CC.ITEM\_DESCRIPTION,

CC.BRAND,

CC.SUBCAT\_NBR,

CC.SUBCAT\_DESC, \*/

CC.CAT\_NBR,

CC.CAT\_DESC,

--CC.SUB\_DIVISION,

--CC.DIVISION,

CC.BU,

CASE WHEN CC.CARD\_HOLDER\_NBR>20 AND CC.BEAT\_INSTORE = 'Beat' AND CC.MEMBER\_SEGMENT IN ('Reseller-Small','Reseller-Wholesaler') AND CC.CHANNEL\_OLD = 'Ecom' THEN 'Un-Assisted Ecom'

WHEN CC.CARD\_HOLDER\_NBR>20 AND CC.BEAT\_INSTORE = 'Beat' AND CC.MEMBER\_SEGMENT IN ('Reseller-Small','Reseller-Wholesaler') AND CC.CHANNEL\_OLD = 'In-store' THEN 'In-store'

ELSE CC.CHANNEL\_NEW END

--CC.CHANNEL\_NEW,

--CC.CHANNEL\_OLD,

--CC.BEAT\_INSTORE