DB table 1

Dictionary: Display Table

Technical Settings   Indexes...   Append Structure...

Transp. Table	ZYP_PS_TRANS_DB	Active
Short Description	metro bank customer tranaction details	

Attributes	Delivery and Maintenance	Fields	Entry help/check	Currency/Quantity Fields

Srch Help   Predefined Type   1 / 6

Field	Key	Ini...	Data element	Data Type	Length	Deci...	Short Description	Group
CC_NUM	✓	✓		NUMC	16	0		
TRAN_ID	✓	✓		INT4	10	0		
T_DATE	☐	☐		CHAR	12	0		
VENDOR	☐	☐		CHAR	20	0		
PRODUCT	☐	☐		CHAR	20	0		
T_AMT	☐	☐		CHAR	7	0		

SAP

DB table 2

Dictionary: Display Table

Technical Settings   Indexes...   Append Structure...

Transp. Table	ZYP_PS_TRANS_DB2 Active
Short Description	HEADER TABLE

| Attributes | Delivery and Maintenance | Fields | Entry help/check | Currency/Quantity Fields |

Srch Help   Predefined Type   1 / 5

Field	Key	Ini...	Data element	Data Type	Length	Deci...	Short Description	Group
CC_NUM	☑	☑		CHAR	19	0		
CC_TYPE	☑	☑		CHAR	10	0		
CC_NAME	☐	☐		CHAR	15	0		
CUS_ADDRESS	☐	☐		CHAR	25	0		
EMAIL	☐	☐		CHAR	25	0		

SAP

DB table 3

Dictionary: Display Table

Technical Settings   Indexes...   Append Structure...

Transp. Table	ZYP_PS_TRANS_DB3	Active
Short Description	HEADER TABLE 2	

Attributes | Delivery and Maintenance | Fields | Entry help/check | Currency/Quantity Fields

Srch Help   Predefined Type   1 / 4

Field	Key	Ini...	Data element	Data Type	Length	Deci...	Short Description	Group
CC_TYPE	☑	☑		CHAR	10	0		
VENDOR	☑	☑		CHAR	20	0		
PRODUCT	☑	☑		CHAR	20	0		
CB_OFF	☐	☐		CHAR	5	0		

Output:

METRO_BANK_CUSTOMER-WISE_TRANSACTION_DETAILS

METRO_BANK_CUSTOMER-WISE_TRANSACTION_DETAILS   1

METRO BANK

CREDIT CARD NUMBER   : 5081594412341000   BILL DATE : 02.10.2022
CUSTOMER NAME   : R.RAMESH
ADDRESS   : ADYAR, CHENNAI

DATE	PURCHASE	AMOUNT	CASH BACK	NET AMOUNT
09.05.2013	FOOD WORLD	1,200.00	36.0	1,164.00
09.05.2013	IOCL	1,500.00	37.0	1,463.00
03.05.2013	RELIANCE	2,000.00	60.0	1,940.00
09.06.2013	HUTCH SHOP	1,500.00	42.0	1,458.00

NO.OF PURCHASE   :   4

TOTAL AMOUNT RS :   6,025.00
INTREST   RS :   120.50
NET AMOUNT RS :   6,145.50

EMAIL ID : RAMESH@YAHOO.COM

METRO BANK

CREDIT CARD NUMBER   : 5081594412341001   BILL DATE : 02.10.2022

```abap
REPORT  ZYP_PA_QUERY_USING_DB.

TYPES BEGIN OF TY_ITEM_TAB.
  INCLUDE STRUCTURE ZYP_PS_TRANS_DB.
TYPES  END OF TY_ITEM_TAB.

TYPES BEGIN OF TY_HEADER.
  INCLUDE STRUCTURE ZYP_PS_TRANS_DB2.
TYPES  END OF TY_HEADER.

TYPES BEGIN OF TY_ITEM_TAB_2.
  INCLUDE STRUCTURE ZYP_PS_TRANS_DB3.
TYPES  END OF TY_ITEM_TAB_2.

TYPES: BEGIN OF TY_FINAL,
  CC_NUM      TYPE C LENGTH 16,
  TRAN_ID     TYPE I,
  T_DATE      TYPE C LENGTH 10,
  VENDOR      TYPE C LENGTH 20,
  PRODUCT     TYPE C LENGTH 20,
  T_AMT       TYPE P DECIMALS 2,
  CC_TYPE     TYPE C LENGTH 10,
  CC_NAME     TYPE C LENGTH 15,
  CUS_ADDRESS TYPE C LENGTH 25,
  EMAIL       TYPE C LENGTH 25,
  CB_OFF      TYPE P DECIMALS 1,
  NET_AMT     TYPE P DECIMALS 2,
  END OF TY_FINAL.
```

```abap
"MERGE ALL THE FIELDS IN ONE TABLE. FINAL TABLE_2 ( VENDOR WISE
"ABSTRACT).
TYPES: BEGIN OF TY_FINAL_2,
 VENDOR   TYPE C LENGTH 20,
 T_AMT    TYPE P DECIMALS 2,
 CB_OFF   TYPE P DECIMALS 1,
 CC_TYPE TYPE C LENGTH 10,
END OF TY_FINAL_2.

DATA: LT_ITEM_TAB TYPE STANDARD TABLE OF TY_ITEM_TAB,
      LS_ITEM_TAB TYPE TY_ITEM_TAB.

DATA: LT_HEADER TYPE STANDARD TABLE OF TY_HEADER,
      LS_HEADER TYPE TY_HEADER.

DATA: LT_ITEM_TAB_2 TYPE STANDARD TABLE OF TY_ITEM_TAB_2,
      LS_ITEM_TAB_2 TYPE TY_ITEM_TAB_2.

DATA: LT_FINAL TYPE STANDARD TABLE OF TY_FINAL,
      LS_FINAL TYPE TY_FINAL.

DATA: LT_FINAL_2 TYPE STANDARD TABLE OF TY_FINAL_2,
      LS_FINAL_2 TYPE TY_FINAL_2.

"DATA DECLERATION PART IN LOCAL VARIABLES.
DATA: LV_TOTAL_AMOUNT  TYPE P DECIMALS 2,
      LV_TOTAL_INTREST TYPE P DECIMALS 2,
      LV_NET_AMOUNT2   TYPE P DECIMALS 2,
      LV_NO_PURCHASE   TYPE I,
      LV_NET_AMOUNT    TYPE P DECIMALS 2.

SELECT * FROM ZYP_PS_TRANS_DB  INTO TABLE LT_ITEM_TAB.
```

```abap
SELECT * FROM ZYP_PS_TRANS_DB2 INTO TABLE LT_HEADER.
SELECT * FROM ZYP_PS_TRANS_DB3 INTO TABLE LT_ITEM_TAB_2.

"SORTING OF ALL FIELDS.
SORT LT_ITEM_TAB   BY CC_NUM ASCENDING.
SORT LT_HEADER     BY CC_NUM ASCENDING.
SORT LT_ITEM_TAB_2 BY CC_TYPE ASCENDING.

"PROCESSING BLOCK OF CUSTOMER TRANSACTION TABLE
"MERGING ALL FIELDS.
LOOP AT LT_ITEM_TAB INTO LS_ITEM_TAB.
  LS_FINAL-CC_NUM     = LS_ITEM_TAB-CC_NUM.
  LS_FINAL-VENDOR     = LS_ITEM_TAB-VENDOR.
  LS_FINAL-PRODUCT    = LS_ITEM_TAB-PRODUCT.
  LS_FINAL-TRAN_ID    = LS_ITEM_TAB-TRAN_ID.
  LS_FINAL-T_DATE     = LS_ITEM_TAB-T_DATE.
  LS_FINAL-T_AMT      = LS_ITEM_TAB-T_AMT.

  READ TABLE LT_ITEM_TAB_2 INTO LS_ITEM_TAB_2 WITH KEY VENDOR = LS_ITEM_TAB-VENDOR BINARY SEARCH.
  IF SY-SUBRC EQ 0.
    LS_FINAL-CC_TYPE    =  LS_ITEM_TAB_2-CC_TYPE.
    LS_FINAL-CB_OFF     =  LS_ITEM_TAB_2-CB_OFF.
  ENDIF.

  READ TABLE LT_HEADER INTO LS_HEADER WITH KEY CC_TYPE = LS_ITEM_TAB_2-CC_TYPE BINARY SEARCH.
  IF SY-SUBRC EQ 0.
    LS_FINAL-CC_NAME     =  LS_HEADER-CC_NAME.
    LS_FINAL-CUS_ADDRESS =  LS_HEADER-CUS_ADDRESS.
    LS_FINAL-EMAIL       =  LS_HEADER-EMAIL.
  ENDIF.
  APPEND LS_FINAL TO LT_FINAL.
ENDLOOP.
```

```abap
IF LT_FINAL IS INITIAL.
  WRITE 'NO RECORD FOUND'.
ELSE.

  LOOP AT LT_FINAL INTO LS_FINAL.
    AT NEW CC_NUM.
      READ TABLE LT_HEADER INTO LS_HEADER WITH KEY CC_NUM = LS_FINAL-CC_NUM.
      WRITE :  / '|',2 SY-ULINE(159),
               / '|',75 'METRO BANK' COLOR 1,160'|',
               / '|',6 'CREDIT CARD NUMBER:' INVERSE COLOR 7,LS_HEADER-CC_NUM ,130 'BILL DATE:' INVERSE COLOR 7, SY-
DATUM,160'|',
               / '|',6 'CUSTOMER NAME :' INVERSE COLOR 7, LS_HEADER-CC_NAME,160'|',
               / '|',6 'ADDRESS      :' INVERSE COLOR 7,LS_HEADER-CUS_ADDRESS,160'|',
               /
'-----------------------------------------------------------------' &
'-----------------------------------------------------------------' &
'------------------------',
               / '|',160'|',10 SY-ULINE(146),160'|',
               / '|',10'|',13 'DATE' INVERSE COLOR 6,22 '|',35 'PURCHASE'
INVERSE COLOR 6,56 '|',74 'AMOUNT' INVERSE COLOR 6,95 '|',
               107 'CASH BACK ' INVERSE COLOR 6,130'|',140 'NET AMOUNT' INVERSE COLOR 6,155'|' ,160'|',
               / '|',160'|',10 SY-ULINE(146),160'|'.
    ENDAT.

    READ TABLE LT_ITEM_TAB_2 INTO LS_ITEM_TAB_2 WITH KEY CC_TYPE  = LS_HEADER-CC_TYPE
                                                         VENDOR   = LS_ITEM_TAB-VENDOR
                                                         PRODUCT  = LS_ITEM_TAB-PRODUCT.

    LS_FINAL-CB_OFF   = LS_FINAL-T_AMT  * LS_FINAL-CB_OFF DIV 100.
    LV_NET_AMOUNT     = LS_FINAL-T_AMT  - LS_FINAL-CB_OFF.
    LV_TOTAL_AMOUNT   = LV_TOTAL_AMOUNT + LV_NET_AMOUNT .
```

```abap
      LV_TOTAL_INTREST  = LV_TOTAL_AMOUNT / 100 * 2.
      LV_NET_AMOUNT2    = LV_TOTAL_AMOUNT + LV_TOTAL_INTREST.
      LV_NO_PURCHASE    = LV_NO_PURCHASE  + 1.

  WRITE : /'|',10'|',11 LS_FINAL-T_DATE,
               22 '|',34  LS_FINAL-VENDOR,
               56 '|',65  LS_FINAL-T_AMT,
               95 '|',97   LS_FINAL-CB_OFF,
              130 '|',133  LV_NET_AMOUNT, 160'|',155'|',
                  /'|',10 SY-ULINE(146),    160'|'.

      AT END  OF CC_NUM .
        SUM.
        WRITE : / '|',2 SY-ULINE(159),
                / '|',20  'NO.OF PURCHASE :' INVERSE COLOR 7, LV_NO_PURCHASE,160  '|',
                / '|',90 'TOTAL AMOUNT RS :' INVERSE COLOR 7, LV_TOTAL_AMOUNT,160 '|',
                / '|',90 'INTREST      RS :' INVERSE COLOR 7, LV_TOTAL_INTREST,160'|',
                / '|',90 'NET AMOUNT   RS :' INVERSE COLOR 7, LV_NET_AMOUNT2,160  '|',
                / '|',
                  '|',2 SY-ULINE(159),
                / '|',10 'EMAIL ID :' INVERSE COLOR 7,LS_HEADER-EMAIL,160 '|',
                / '|',2 SY-ULINE(159).
            SKIP 3.
            CLEAR: LV_TOTAL_AMOUNT,LV_TOTAL_INTREST,LV_NO_PURCHASE,LV_NET_AMOUNT2,LV_NET_AMOUNT.
          ENDAT.
        ENDLOOP.
        WRITE: /, 75 'END OF STATEMENT' INVERSE COLOR 7.
        SKIP 4.
      ENDIF.
      " PROCESSING BLOCK OF VENDOR WISE ABSTRACT.
      SORT LT_ITEM_TAB BY VENDOR ASCENDING.
      SORT LT_ITEM_TAB_2 BY VENDOR ASCENDING.
```

```
LOOP AT LT_ITEM_TAB INTO LS_ITEM_TAB.
  LS_FINAL_2-VENDOR  = LS_ITEM_TAB-VENDOR.
  LS_FINAL_2-T_AMT   = LS_ITEM_TAB-T_AMT.

  READ TABLE LT_ITEM_TAB_2 INTO LS_ITEM_TAB_2 WITH KEY VENDOR  = LS_ITEM_TAB-VENDOR BINARY SEARCH.
  IF SY-SUBRC EQ 0.
    LS_FINAL_2-CB_OFF  = LS_ITEM_TAB_2-CB_OFF.
    LS_FINAL_2-CC_TYPE = LS_ITEM_TAB_2-CC_TYPE.
  ENDIF.

  APPEND LS_FINAL_2 TO LT_FINAL_2.
ENDLOOP.

IF LT_FINAL_2 IS INITIAL.
  WRITE 'NO RECORD FOUND'.
ELSE.

  LOOP AT LT_FINAL_2 INTO LS_FINAL_2.
    AT FIRST.
      WRITE: /,35'VENDOR WISE ABSTRACT' COLOR 3.
      SKIP 2.
      WRITE: / 'VENDOR' COLOR 1, 27'TOTAL AMOUNT' COLOR 1,46
      'TOTAL CASHBACK' COLOR 1,64'NET AMOUNT TOTAL' COLOR 1.
      SKIP 1.
    ENDAT.
    WRITE: / LS_FINAL_2-VENDOR,
             LS_FINAL_2-T_AMT ,
             LS_FINAL_2-CB_OFF.

    AT END OF VENDOR.
      SUM.
```

```abap
        LS_FINAL_2-CB_OFF = LS_FINAL_2-T_AMT * LS_FINAL_2-CB_OFF DIV 100.
        LV_NET_AMOUNT     = LS_FINAL_2-T_AMT - LS_FINAL_2-CB_OFF.
         WRITE :/,12 'SUB TOTAL' COLOR 5,LS_FINAL_2-T_AMT COLOR 2,
                                    40 LS_FINAL_2-CB_OFF COLOR 2,
                                    64 LV_NET_AMOUNT COLOR 2.
        CLEAR LV_NET_AMOUNT.
      ENDAT.
    ENDLOOP.
ENDIF.
```