

Enquiry Routines

TEMENOS EDUCATION CENTRE

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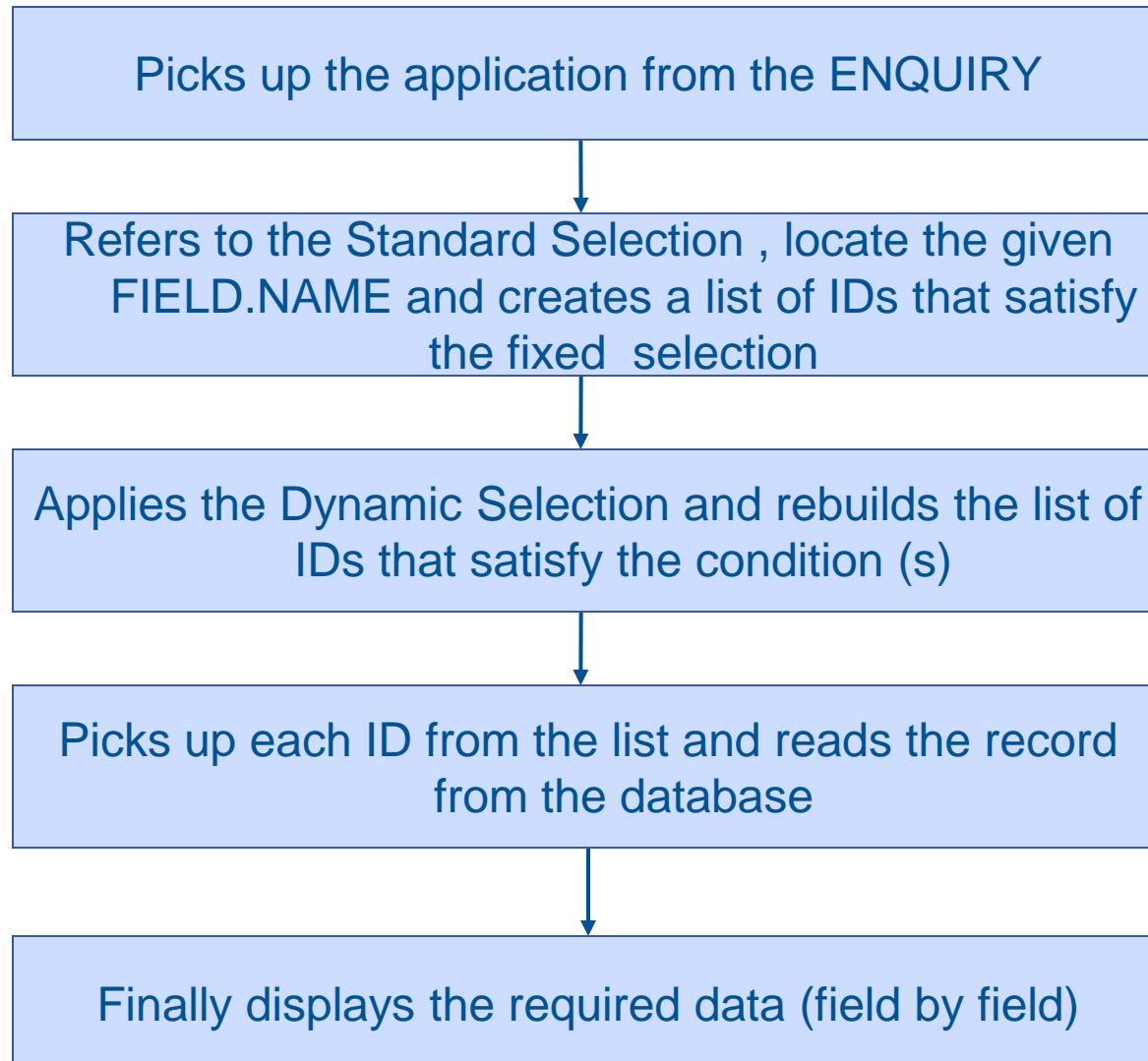


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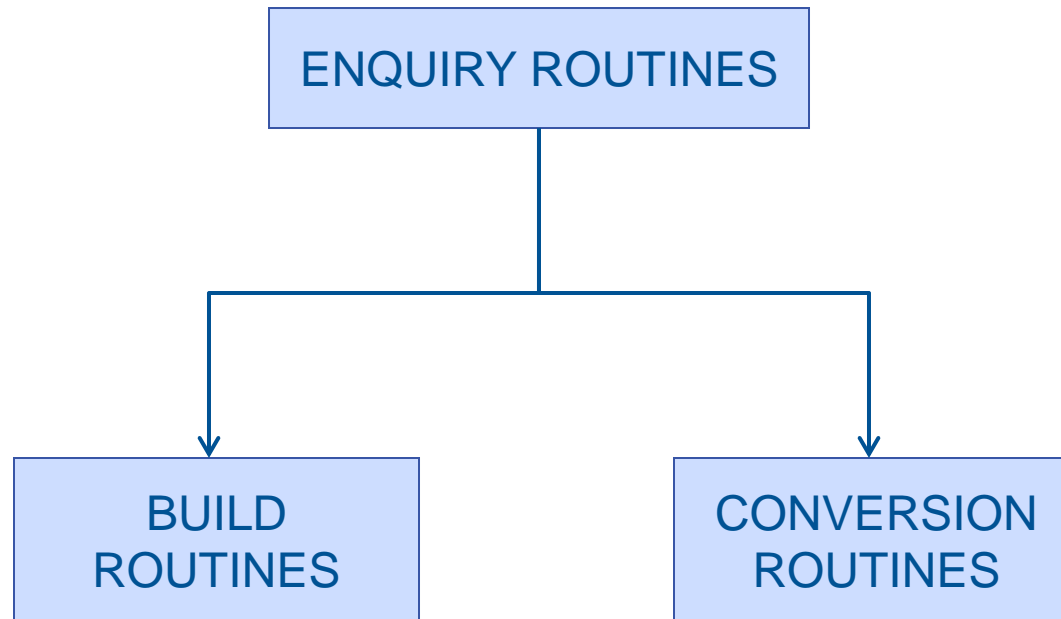
After completing this learning unit, you will be able to:

- Explain different types of enquiry routines that can be attached to an enquiry
- Identify the stages where the enquiry routines would get executed
- Create Build and Conversion Routines

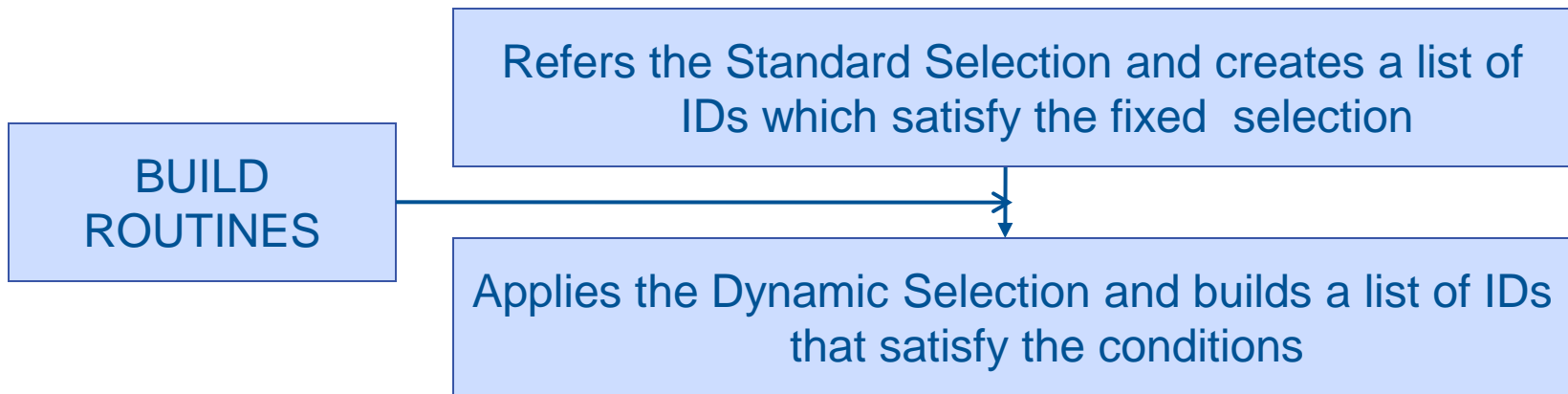
- An enquiry is a query to T24
- It is a 'SELECT' executed to fetch data from T24
- Created using the **ENQUIRY** application
- Data can be displayed in user defined format



- Subroutines enable users to read or write onto single or multiple files
- Subroutines are executed from T24
- Subroutines add more functionality to enquiries
- Subroutines can be attached to manipulate data before displaying



- Build Routine is used to manipulate the 'Selection Criteria Box'



- The Build Routine is attached to the field BUILD.ROUTINE in the **ENQUIRY** record

- Build Routine must have an argument (dynamic array) passed
- The dynamic array is represented as ENQ.DATA<column,row>

ACCOUNT.TRG

[more options](#)
[clear selection](#)

Find

@ID

equals

ACCOUNT.NUMBER

equals

CUSTOMER.MNEMONIC

equals

ACCT.ID

equals

ADL.ID

equals

ACL.ID

equals

ADL.ID

equals

SOURCE.ID

equals

Enquiry Name

ENQ.DATA<1>

Field Name

ENQ.DATA<2>

Operands

ENQ.DATA<3>

Actual Value

ENQ.DATA<4>

GB0010001 : ACCOUNT.TRG

Create an enquiry that will display Customer Id, the Account Id and the respective working balance after accepting the category from the user.

- For category 1001 - Balance should be in the range 0 and 49999
- For category 6001 - Balance should be in the range 50000 and 100000
- For category greater than 7000 - Balance should be in the range 100000 and 500000

```
SUBROUTINE  ENQ.TEST(ENQ.DATA)

$INSERT I_COMMON

$INSERT I_EQUATE

$INSERT I_ENQUIRY.COMMON

LOCATE 'CATEGORY' IN ENQ.DATA<2,1> SETTING Y.POS ELSE NULL

Y.CAT=ENQ.DATA<4,Y.POS>

LOCATE 'WORKING.BALANCE' IN ENQ.DATA<2,1> SETTING BAL.POS ELSE
NULL
```

```
ENQ.DATA<2,BAL.POS>='WORKING.BALANCE '
```

```
ENQ.DATA<3,BAL.POS>= 'RG'
```

```
IF Y.CAT=1001 THEN ENQ.DATA<4,BAL.POS>='0 49999'
```

```
IF Y.CAT=6001 THEN ENQ.DATA<4,BAL.POS>='50000 100000'
```

```
IF Y.CAT>7000 THEN ENQ.DATA<4,BAL.POS>='100000 500000'
```

```
RETURN
```

```
END
```

ENQUIRY ACCOUNT.TEST

ENQUIRY ACCOUNT.TEST

Page Size	4,19
File Name	ACCOUNT
Selection Flds.1	CATEGORY
Sel Fld Oper.1	EQ
Required Sel.1	Y
Build Routine.1	ENQ.TEST
Field Name.1	@ID
Operation.1.1	@ID
Column.1	1
Length Mask.1	19R
Single Multi.1	S
Field Name.2	CUSTOMER
Operation.2.1	CUSTOMER
Column.2	20
Length Mask.2	10R
Single Multi.2	S
Field Name.3	WORKING.BALANCE
Operation.3.1	WORKING.BALANCE
Column.3	30
Length Mask.3	19R

ACCOUNT.TEST [more options](#) [clear selection](#)

CATEGORY equals *

NO.SORT.OPTION equals

ACCOUNT.TEST

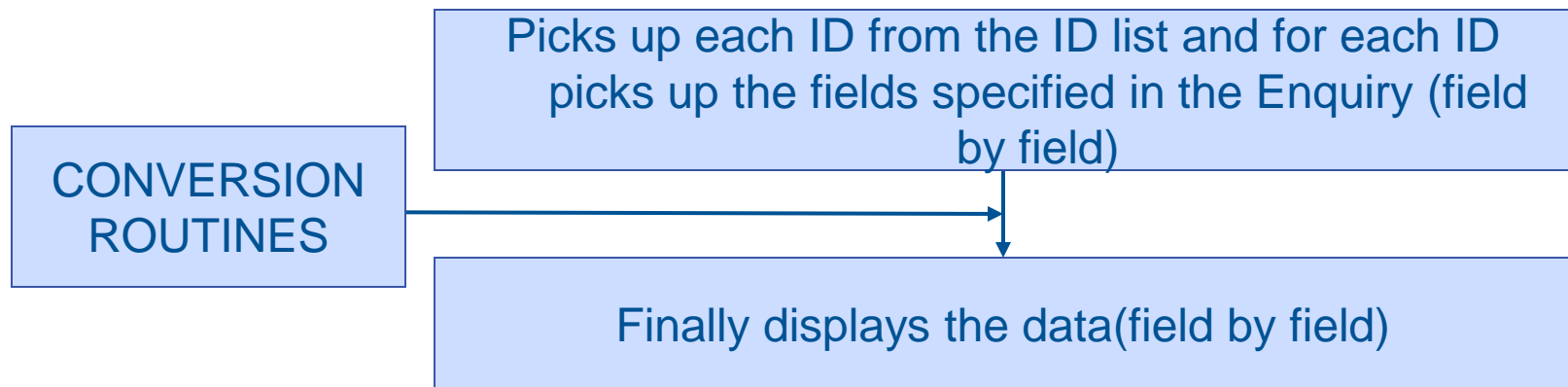
ACCOUNT.TEST - Microsoft Internet Explorer

Results 1 - 2 of 2

@ID	CUSTOMER	WORKING.BALANCE
1000005211	111569	40000
1000005378	111569	35000

```
jBASE debugger->S
0018      LOCATE 'CATEGORY' IN ENQ.DATA<2,1> SETTING Y.POS ELSE NULL
jBASE debugger->S
0019      Y.CAT = ENQ.DATA<4,Y.POS>
jBASE debugger->S
0020      LOCATE 'WORKING.BALANCE' IN ENQ.DATA<2,1> SETTING BAL.POS ELSE NULL
jBASE debugger->V Y.CAT
  Y.CAT                : 1001
jBASE debugger->V Y.POS
  Y.POS                : 1
jBASE debugger->S
0021      ENQ.DATA<2,BAL.POS> = 'WORKING.BALANCE'
jBASE debugger->V BAL.POS
  BAL.POS              : 2
jBASE debugger->S
0022      ENQ.DATA<3,BAL.POS>= 'RG'
jBASE debugger->S
0023      IF Y.CAT=1001 THEN ENQ.DATA<4,BAL.POS>='0 49999'
jBASE debugger->S
0024      IF Y.CAT=6001 THEN ENQ.DATA<4,BAL.POS>='50000 100000'
jBASE debugger->V ENQ.DATA
  ENQ.DATA              : ACCOUNT.TEST^CATEGORY] WORKING.BALANCE^EQ] RG^1001] 0
  49999^^^^^^^^^^^^^^
jBASE debugger->
```

- CONVERSION Routine help us to manipulate data in a field prior to display



- The CONVERSION Routine is attached to the field 'CONVERSION' in the ENQUIRY record

- I_ENQUIRY.COMMON is the insert file that contain common variables specific to enquiries
- O.DATA is a common variable that holds the last extracted value
- R.RECORD holds the record pertaining to the current ID that has been extracted

Create an enquiry that will list the LD contract numbers, and their respective loan amounts. If the loan amount is in foreign currency, they have to be converted to local currency and then displayed.

The output should have the following columns - ID, CCY, AMT, AMT.LCY

```
SUBROUTINE CONV.ROUTINE

    $INSERT I_COMMON

    $INSERT I_EQUATE

    $INSERT I_ENQUIRY.COMMON

    $INSERT I_F.LD.LOANS.AND.DEPOSITS

    $INSERT I_F.CURRENCY

    GOSUB INIT

    GOSUB PROCESS

    RETURN

INIT:

    FN.CUR = 'F.CURRENCY'

    F.CUR = ''
```

```
Y.LD.CURR = R.RECORD<LD.CURRENCY>
```

```
R.CUR.REC = ''
```

```
CALL OPF (FN.CUR, F.CUR)
```

```
RETURN
```

```
PROCESS:
```

```
IF Y.LD.CURR NE LCCY THEN
```

```
    CALL F.READ (FN.CUR, Y.LD.CURR, R.CUR.REC, F.CUR, LD.ERR1)
```

```
    O.DATA = R.CUR.REC<EB.CUR.MID.REVAL.RATE, 1> * O.DATA
```


```
END
```






```
RETURN
```

```
END
```

ENQUIRY, LD.CONVROUTINE

Page Size	4,19
File Name	LD.LOANS.AND.DEPOSITS
Field Name.1	@ID
Operation.1.1	@ID
Column.1	1
Length Mask.1	25R
GB Field Lbl.1	ID
Single Multi.1	S
Field Name.2	CURRENCY
Operation.2.1	CURRENCY
Column.2	15
Length Mask.2	3L
GB Field Lbl.2	CCY
Single Multi.2	S
Field Name.3	AMOUNT
Operation.3.1	AMOUNT
Column.3	20
Length Mask.3	19R
GB Field Lbl.3	AMT
Single Multi.3	M
Field Name.4	AMOUNT
Operation.4.1	AMOUNT
Column.4	30
Length Mask.4	19R
Conversion.4.1	@ CONV.ROUTINE
GB Field Lbl.4	AMT.LCY

 LD.CONVROUTINE - Microsoft Internet Explorer

Results 1 - 5 of 5     

ID	CCY	AMT	AMT.LCY
LD1000500061	USD	10000.00	10000.00
LD1000536106	USD	5000.00	5000.00
LD1000540159	CAD	2000.00	2402.5
LD1000562490	USD	5.00	5.00
LD1000591255	USD	500.00	500.00

```
0019 INIT:
jBASE debugger->s
0020     FN.CUR = 'F.CURRENCY'
jBASE debugger->s
0021     F.CUR = ''
jBASE debugger->s
0022     Y.LD.CURR = R.RECORD<LD.CURRENCY>
jBASE debugger->s
0023     R.CUR.REC = ''
jBASE debugger->v O.DATA
COMMON variables
    O.DATA                : 2000.00
jBASE debugger->S
0024     CALL OPF(FN.CUR,F.CUR)
jBASE debugger->S
0025     RETURN
jBASE debugger->S
0027 PROCESS:
jBASE debugger->S
0029     IF Y.LD.CURR NE LCCY THEN
jBASE debugger->S
0030         CALL F.READ(FN.CUR,Y.LD.CURR,R.CUR.REC,F.CUR,LD.ERR1)
jBASE debugger->S
0031         O.DATA = R.CUR.REC<EB.CUR.MID.REVAL.RATE,1> *O.DATA
jBASE debugger->S
0032     END
jBASE debugger->V O.DATA
COMMON variables
    O.DATA                : 2402.5
jBASE debugger->S
0033     RETURN
```

- QUIZ

In this learning unit/course, you learnt about the enquiry routines in T24

You will now be able to:

- Explain different types of enquiry routines that can be attached to an enquiry
- Identify the stages where the enquiry routines would get executed
- Create Build and Conversion Routines

Thank You

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