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1  *&-----*
2  *& Report zdpm practice1
3  *&-----*
4  *&
5  *&-----*
6  REPORT zdpm_practice1.
7
8  * DATA BASE operations can be performed using various query types and
9  *various operators
10
11 *1. SELECT and endselect
12 SELECT matnr , ernam,ersda FROM mara INTO @DATA(ls_mara).
13 ENDSELECT.
14 WRITE : / 'select and endselect output: ', ls_mara-matnr.
15
16
17 * 2. single record --> single keyword.
18 CLEAR:ls_mara.
19 SELECT SINGLE matnr ernam FROM mara INTO ls_mara.
20 WRITE: / 'single keyword output :', ls_mara-matnr.
21
22
23 * 3. And operator
24 SELECT * FROM mara INTO TABLE @DATA(lt_mara) WHERE matnr = 'TG10' AND matnr = 'TG11'.
25 PERFORM display.
26
27
28 * 4. or operator.
29 SELECT * FROM mara INTO TABLE lt_mara WHERE matnr = 'TG10' OR matnr = 'TG11'.
30 PERFORM display.
31
32
33 * 5. single field as target.
34 SELECT SINGLE ersda FROM mara INTO @DATA(ersd) WHERE matnr = 'TG10'.
35 WRITE:/ ersd.
36
37
38 * 6. ALIASES in query
39 SELECT SINGLE matnr AS mat ernam AS ern FROM mara INTO ls_mara.
40 WRITE: / ls_mara-matnr , ls_mara-ernam.
41
42
43 *7. distinct statement --> unique data only
44 SELECT DISTINCT ( matnr ) FROM mara INTO TABLE lt_mara.
45 PERFORM display.
46
47
48 * 8. restrict number of lines
49 SELECT * FROM mara INTO TABLE lt_mara UP TO 3 ROWS.
50 PERFORM display.
51
52
53 * 9. by passing buffer --> need not to store data into buffer
54 WRITE: / 'By Passing Buffer'.
55 SELECT * FROM mara INTO TABLE lt_mara BYPASSING BUFFER UP TO 2 ROWS.
56 PERFORM display.
57
58
59 * 10. check values in interval and not in interval.
60 WRITE: / 'Between'.
61 SELECT * FROM mara INTO TABLE lt_mara WHERE matnr BETWEEN 'EWMS4-01' AND 'EWMS4-11'.
62 PERFORM display.
63
64 SELECT * FROM mara INTO TABLE lt_mara UP TO 4 ROWS WHERE matnr NOT BETWEEN 'EWMS4-01'
65 AND 'EWMS4-11'.
66 PERFORM display.
67
68
69 * 11. sy-DBCNT --> number of records processed to internal table from DB.
70
71
72 * 12. like operator to fetch the data
73 WRITE: / 'like operator'.
74 SELECT * FROM mara INTO TABLE lt_mara UP TO 3 ROWS WHERE matnr LIKE 'E%'.

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74 PERFORM display.
75
76 SELECT * FROM mara INTO TABLE lt_mara UP TO 3 ROWS WHERE matnr LIKE '%E'.
77 PERFORM display.
78
79 SELECT * FROM mara INTO TABLE lt_mara UP TO 3 ROWS WHERE matnr LIKE '%E%'.
80 PERFORM display.
81
82
83
84 * 13. in operator.
85 WRITE: / 'IN operator'.
86 SELECT * FROM mara INTO TABLE lt_mara UP TO 2 ROWS WHERE matnr IN ('EWMS4-01',
87 'EWMS4-11').
88 PERFORM display.
89
90 SELECT * FROM mara INTO TABLE lt_mara UP TO 2 ROWS WHERE matnr NOT IN ('EWMS4-01',
91 'EWMS4-11').
92 PERFORM display.
93
94 * 14. null or not null values
95 WRITE : / 'NULL and NOT NULL'.
96 SELECT * FROM mara INTO TABLE lt_mara UP TO 2 ROWS WHERE ernam IS NULL.
97 PERFORM display.
98
99 SELECT * FROM mara INTO TABLE lt_mara UP TO 2 ROWS WHERE ernam IS NOT NULL.
100 PERFORM display.
101
102
103
104 * 15. negative condition --> not pick the matnr value equal to given condition.
105 WRITE: / 'Negative condition in query'.
106 SELECT * FROM mara INTO TABLE lt_mara UP TO 2 ROWS WHERE NOT matnr = 'TG11'.
107 PERFORM display.
108
109
110
111 * 16. group by
112 WRITE: / 'Group By Clause'.
113 SELECT matnr ernam FROM mara INTO TABLE lt_mara UP TO 12 ROWS GROUP BY matnr ernam.
114 PERFORM display.
115
116
117 * 17. having clause with group by --> having is used with agregate functions
118 WRITE: / 'Having clause with froup by.'.
119 SELECT carrid , connid FROM sflight INTO TABLE @DATA(lt_scarr) UP TO 2 ROWS WHERE
120 carrid = 'AA' OR carrid = 'LH'
121 GROUP BY carrid,connid HAVING SUM( seatsocc ) > 300.
122 ULINE.
123 LOOP AT lt_scarr INTO DATA(ls_scarr).
124 WRITE: ls_scarr-carrid.
125 ENDLOOP.
126 ULINE.
127
128 * 18. sorting -- order by
129 write : / 'Order By'.
130
131 " key
132 select matnr ernam from mara into table lt_mara up to 2 rows ORDER BY matnr.
133 perform display.
134
135 "ascending order
136 select matnr ernam from mara into table lt_mara up to 2 rows ORDER BY matnr ASCENDING.
137 perform display.
138
139 "descending order
140 select matnr ernam from mara into table lt_mara up to 2 rows ORDER BY matnr DESCENDING.
141 perform display.
142
143
144

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145 | " display the table data.  
146 | FORM display.  
147 |     ULINE.  
148 |     LOOP AT lt_mara INTO DATA(ls_tab).  
149 |         WRITE: / ls_tab-matnr.  
150 |     ENDLOOP.  
151 |     WRITE: / 'finished'.  
152 |     ULINE.  
153 |     CLEAR lt_mara.  
154 | ENDFORM.
```