

SAP ABAP 7.4/7.5 New Syntax Topics with Examples

1. Inline Data Declarations

```
DATA(lv_sum) = 5 + 3.
```

2. COND Statement

```
DATA(lv_result) = COND string(  
  WHEN sy-subrc = 0 THEN 'Success'  
  WHEN sy-subrc = 4 THEN 'No Data'  
  ELSE 'Error'  
).
```

3. SWITCH Statement

```
DATA(lv_status) = SWITCH string( sy-subrc  
  WHEN 0 THEN 'OK'  
  WHEN 1 THEN 'Minor Issue'  
  ELSE 'Fail'  
).
```

4. Purpose of

```
DATA(lv_text) = VALUE string( # 'Auto typed text' ).
```

5. String Expressions

```
DATA(lv_fullname) = |{ lv_firstname } { lv_lastname }|.
```

6. VALUE Expression

```
DATA(lt_numbers) = VALUE int4_tab( ( 1 ) ( 2 ) ( 3 ) ).
```

7. Use of BASE in VALUE Expression

```
DATA lt_base TYPE STANDARD TABLE OF i WITH EMPTY KEY.  
lt_base = VALUE #( ( 1 ) ( 2 ) ).  
lt_base = VALUE #( BASE lt_base ( 3 ) ( 4 ) ).
```

8. Corresponding Operator

```
DATA: ls1 TYPE ty_struct1, ls2 TYPE ty_struct2.  
ls2 = CORRESPONDING #( ls1 ).
```

9. ALPHA Keyword with IN or OUT

```
DATA(lv_matnr) = |000000001234567890|.  
lv_matnr = |{ lv_matnr ALPHA = OUT }|. " Removes leading zeros
```

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10. Table Expressions

```
DATA(lv_name) = lt_emp[ id = 'E01' ]-name.
```

11. LOOP AT GROUPS

```
LOOP AT GROUPS carrid_group ASSIGNING FIELD-SYMBOL(<group>)  
  GROUP BY spfli-carrid.  
  WRITE: / <group>-carrid.  
ENDLOOP.
```

12. New Keyword for Object Creation

```
DATA(lo_obj) = NEW cl_demo_class( ).
```

13. LET Expression

```
DATA(lv_final) = LET sum = a + b IN sum * 2.
```

14. CONV Operator

```
DATA(lv_string) = CONV string( lv_int ).
```

15. REDUCE Operator

```
DATA(lv_sum) = REDUCE i( INIT x = 0 FOR num IN lt_tab NEXT x = x + num ).
```

16. FILTER

```
DATA(lt_filtered) = FILTER #( lt_data USING KEY key_name WHERE field = 'X' ).
```

17. Open SQL - Comma-Separated Columns

```
SELECT carrid, connid, cityfrom, cityto  
  FROM spfli  
 INTO TABLE @DATA(lt_flights).
```

18. Open SQL - Conditional Statements

```
SELECT carrid,  
       CASE WHEN cityfrom = 'FRANKFURT' THEN 'Yes' ELSE 'No' END AS from_frankfurt  
  FROM spfli  
 INTO TABLE @DATA(lt_flights).
```

19. Open SQL - Literals

```
SELECT * FROM scarr INTO TABLE @DATA(lt_carriers)  
WHERE carrid = '@LH'.
```

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20. Open SQL - Aggregate Functions

```
SELECT COUNT(*) AS total FROM spfli INTO @DATA(lv_count).
```

21. Open SQL - Arithmetic Functions

```
SELECT carrid, connid, price * 1.12 AS price_with_tax FROM sflight INTO TABLE @DATA(lt_result).
```

22. Parallel Cursor - New Syntax

```
LOOP AT lt_header INTO DATA(ls_header).  
  LOOP AT lt_item INTO DATA(ls_item) FROM sy-tabix WHERE hkey = ls_header-hkey.  
    " process  
  ENDLOOP.  
ENDLOOP.
```

23. Debugging Complex ABAP Expressions

Use "ABAP Debugger" and press F2 or Right-Click > Display Expression.

24. SQL Window Expression

```
SELECT carrid, connid, RANK() OVER (PARTITION BY carrid ORDER BY price DESC) AS rank  
FROM sflight  
INTO TABLE @DATA(lt_ranked).
```

25. SQL Window Function with Frames

```
SELECT carrid, connid,  
       SUM(price) OVER (PARTITION BY carrid ORDER BY connid ROWS BETWEEN 1 PRECEDING AND  
CURRENT ROW) AS sum_price  
FROM sflight  
INTO TABLE @DATA(lt_window).
```

26. SQL Window Function (Rank and Value)

```
SELECT carrid, connid, price,  
       RANK() OVER (PARTITION BY carrid ORDER BY price DESC) AS rank  
FROM sflight  
INTO TABLE @DATA(lt_ranked).
```

27. Indicator Structures

```
DATA indicator TYPE STRUCTURE indicator_structure.
```