

```
*&-----*
*& Report ZQKEBW001_00
*&-----*
*& Авторстопом по АБАПу
*& Василий Ковальский - Vasili Kovalski
*& QK0001.New Open SQL syntaxis
*& BW001. 11. Inline Declarations. SELECT SINGLE ,
*&-----*
REPORT ZQKEBW001_11.
start-of-selection.

    SELECT SINGLE carrid, connid, cityfrom, cityto FROM spfli INTO @DATA(gs).

end-of-selection.
zcl_qke02_srv=>write_struct_col( gs ).
skip 2.
uline.
write: / 'BOT TAK!'
```

```
*&-----*
*& Report ZQKEBW001_12
*&-----*
*& Авторстопом по АБАПу
*& Василий Ковальский - Vasili Kovalski
*& QK0001.New Open SQL syntaxis
*& BW001. 12. Inline Declarations. SELECT SINGLE *
*&-----*
REPORT ZQKEBW001_12.

start-of-selection.
  SELECT SINGLE * FROM t000 INTO @DATA(gs).

end-of-selection.
  zcl_qke02_srv=>write_struct_col( gs ).
  skip 2.
  uLINE.
  write: / 'BOT TAK!'.
```

```
*&-----*
*& Report ZQKEBW001_13
*&-----*
*& Авторстопом по АБАПу
*& Василий Ковальский - Vasili Kovalski
*& QK0001.New Open SQL syntaxis
*& BW001. 13. Inline Declarations. SELECT INTO TABLE
*&-----*
REPORT ZQKEBW001_13.
```

```
start-of-selection.
```

```
SELECT * FROM tactt up to 4 rows INTO TABLE @DATA(gt) .
```

```
end-of-selection.
```

```
zcl_qke02_srv=>write_table( gt ).
skip 2.
uline.
write: / 'BOT TAK!'.
```

```

*&-----*
*& Report ZQKEBW001_21
*&-----*
*& Авторстопом по АБАПу
*& Василий Ковальский - Vasili Kovalski
*& QK0001.New Open SQL syntaxis
*& BW001. 21. Concatenation
*&-----*
REPORT ZQKEBW001_21.
start-of-selection.

SELECT
    cityfrom
  , cityto
  , cityfrom && '->' && cityto           as path    "<=255 char
*   , carrid && connid                   as cc      " !!! Impossible !!
!
  , CONCAT( carrid, connid )           as cc
*
  , CONCAT( cityfrom, CONCAT( '->', cityto ) ) as path2  "<=1333 char
  , CONCAT( 'A', 'B' )                 as ab
  , CONCAT_WITH_SPACE( 'A', 'B', 1 )   as a1b
  , CONCAT_WITH_SPACE( 'A', 'B', 2 )   as a2b

FROM spfli INTO TABLE @DATA(gt).

end-of-selection.
zcl_qke02_srv=>write_table( gt ).
skip 2.
uline.
write: / 'BOT TAK!'.

```

```
*&-----*
*& Report ZQKEBW001_22
*&-----*
*& Авторстопом по АБАПу
*& Василий Ковальский - Vasili Kovalski
*& QK0001.New Open SQL syntaxis
*& BW001. 22. Calculation
*&-----*
REPORT ZQKEBW001_22.
```

```
start-of-selection.
```

```
SELECT
    carrid
    , connid
    , fldate
    , seatsmax
    , seatsocc
    , seatsmax - seatsocc AS SEATSFREE
FROM sflight INTO TABLE @DATA(gt).
```

```
end-of-selection.
```

```
zcl_qke02_srv=>write_table( gt ).
skip 2.
uline.
write: / 'BOT TAK!'.
```

```

*&-----*
*& Report ZQKEBW001_23
*&-----*
*& Авторстопом по АБАПу
*& Василий Ковальский - Vasili Kovalski
*& QK0001.New Open SQL syntaxis
*& BW001. 23. Type casting
*&-----*
REPORT ZQKEBW001_23.

start-of-selection.

SELECT
    carrid
  , connid
  , CONCAT( carrid, CAST( connid as char( 4 ) ) ) AS cc
  , fldate
  , seatsmax
  , seatsocc
  , seatsmax - seatsocc AS SEATSFREE
*   , seatsocc * 100 / seatsmax AS PERCENTAGE " !!! Impossible !!!
  , CAST( seatsocc * 100 AS FLTP ) / CAST( seatsmax AS FLTP ) AS PERCENTAGE
FROM sflight INTO TABLE @DATA(gt)
.

end-of-selection.
zcl_qke02_srv=>write_table( gt ).
skip 2.
uline.
write: / 'BOT TAK!'.

```

```
*&-----*
*& Report ZQKEBW001_24
*&-----*
*& Авторстопом по АБАПу
*& Василий Ковальский - Vasili Kovalski
*& QK0001.New Open SQL syntaxis
*& BW001. 24. Aihmetic functions ceil, floor, round
*&-----*
REPORT ZQKEBW001_24.
```

```
start-of-selection.
```

```
SELECT
    carrid
  , connid
  , fldate
  , price
  , CEIL( price )      as ceil
  , FLOOR( price )    as floor
  , ROUND( price, 1 ) as r1
  , ROUND( price, -1 ) as r_1

FROM sflight INTO TABLE @DATA(gt)
```

```
.
```

```
end-of-selection.
```

```
zcl_qke02_srv=>write_table( gt ).
skip 2.
uline.
write: / 'BOT TAK!'.
```

```
*&-----*
*& Report ZQKEBW001_25
*&-----*
*& Авторстопом по АБАПу
*& Василий Ковальский - Vasili Kovalski
*& QK0001.New Open SQL syntaxis
*& BW001. 25. Text functions
*&-----*
REPORT ZQKEBW001_25.
```

start-of-selection.

```
SELECT
  carrid
  , carrname

  , LENGTH( carrname )           as len
  , INSTR( carrname, 'Air' )     as instr

  , LEFT( carrname, 4 )          as left
  , RIGHT( carrname, 5 )         as right
  , SUBSTRING( carrname, 4, 9 )  as subs
  , REPLACE( carrname, 'a', '@' ) as repl
  , LOWER( carrname )           as lower
  , UPPER( carrname )           as upper

FROM scarr INTO TABLE @DATA(gt)
```

end-of-selection.

```
zcl_qke02_srv=>write_table( gt ).
skip 2.
uline.
write: / 'BOT TAK!'.
```



```
*&-----*
*& Report ZQKEBW001_26
*&-----*
*& Авторстопом по АБАПу
*& Василий Ковальский - Vasili Kovalski
*& QK0001.New Open SQL syntaxis
*& BW001. 26. CASE operator
*&-----*
REPORT ZQKEBW001_26.
```

```
start-of-selection.
```

```
SELECT
  carrid
  , connid
  , cityfrom
  , cityto
  , countryfr
  , countryto
  , CASE countryfr
    WHEN countryto THEN 'Home'
    ELSE 'Foreign'
  END AS mark

FROM spfli INTO TABLE @DATA(gt)
```

```
end-of-selection.
```

```
zcl_qke02_srv=>write_table( gt ).
skip 2.
uline.
write: / 'BOT TAK!'.
```

```

*&-----*
*& Report ZQKEBW001_31
*&-----*
*& Авторстопом по АБАПу
*& Василий Ковальский - Vasili Kovalski
*& QK0001.New Open SQL syntaxis
*& BW001. 31. Aggregate function
*&-----*
REPORT ZQKEBW001_31.

start-of-selection.

SELECT
    carrid
    , connid
    , count( * ) as cnt
    , count( distinct seatsocc ) as cnd
    , sum( seatsocc ) as sum
    , min( seatsocc ) as min
    , max( seatsocc ) as max
    , avg( seatsocc ) as avg

    from sflight

    group by carrid, connid into table @data(gt) " both are possible
*   into table @data(gt) group by carrid, connid " both are possible
.
end-of-selection.
zcl_qke02_srv=>write_table( gt ).
skip 2.
uline.
write: / 'BOT TAK!'.

```

```

*&-----*
*& Report ZQKEBW001_32
*&-----*
*& Авторстопом по АБАПу
*& Василий Ковальский - Vasili Kovalski
*& QK0001.New Open SQL syntaxis
*& BW001. 32. Aggregate function. New
*&-----*
REPORT ZQKEBW001_32.

```

start-of-selection.

```

SELECT
    carrid
  , connid
*   , count( * ) as cnt
*   , count( distinct seatsocc ) as cnd
*   , sum( seatsocc ) as sum
  , min( seatsocc ) as min
  , max( seatsocc ) as max
  , avg( seatsocc ) as avg

  , median( seatsocc ) as median
*   , stddev( seatsocc ) as stddev           " !!! impossible !!!
  , stddev( cast( seatsocc as FLTP ) ) as stddev
*   , var( seatsocc ) as var                 " !!! impossible !!!
  , var( cast( seatsocc as D34N ) ) as var
  , corr( paymentsum, seatsocc ) as corr

from sflight
*   into table @data(gt) group by carrid, connid " !!! impossible !!!
  group by carrid, connid into table @data(gt) " Possible
.

```

end-of-selection.

```

zcl_qke02_srv=>write_table( gt ).
skip 2.
uline.
write: / 'BOT TAK!'.

```

```

*&-----*
*& Report ZQKEBW001_32
*&-----*
*& Авторстопом по АБАПу
*& Василий Ковальский - Vasili Kovalski
*& QK0001.New Open SQL syntaxis
*& BW001. 99. Union restrictions for Любовь Н.
*&-----*
REPORT ZQKEBW001_99.

```

start-of-selection.

```

SELECT
    carrid as id
*   cast( carrid as char( 8 ) ) as id
    , carrname as name
  from scarr
*   UP TO 3 ROWS " With UNION must be after INTO clause, See F1
  where carrname like '%Air%' or carrname like '%air%'

union select
    cast( id as char( 8 ) ) as id
    , name as name
  from scustom
*   UP TO 3 ROWS " !!! Impossible !!!, See F1
  where name like '%Air%' or name like '%air%'

order by NAME descending
into table @data(gt)
*   UP TO 3 ROWS " !!! Impossible !!!, See F1
*   ORDER BY PRIMARY KEY " !!! Impossible !!!
.
write: / 'No UP TO clause, see F1'.
write: / 'No ORDER BY PRIMARY KEY clause'.
write: / 'Allways does not use Application Server table buffers, See F1'.
write: / 'Allways use Strict ABAP SQL Mode, See F1'.

end-of-selection.
zcl_qke02_srv=>write_table( gt ).
skip 2.
uline.
write: / 'BOT TAK!'.

```