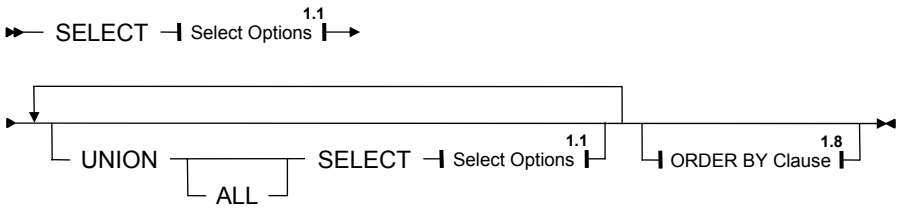
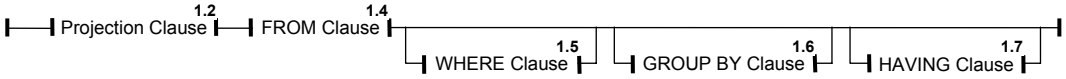
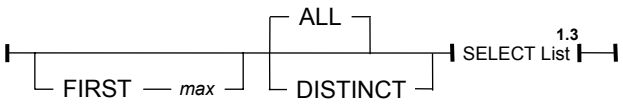
1. SELECT Statement



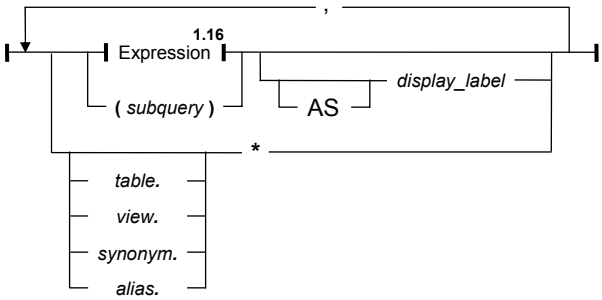
1.1. SELECT Options



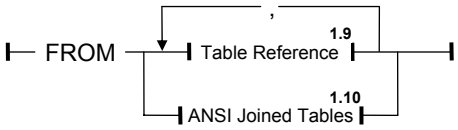
1.2. Projection Clause



1.3 SELECT List

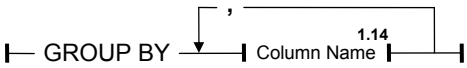


1.4. FROM Clause

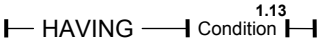


1.5. WHERE Clause

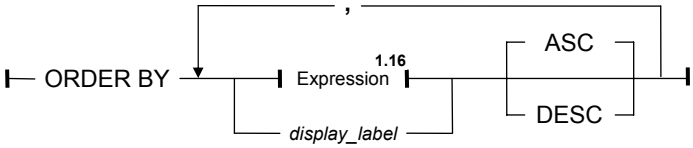
1.6. GROUP BY Clause



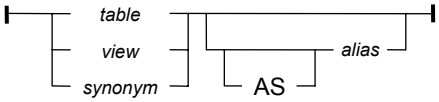
1.7. HAVING Clause



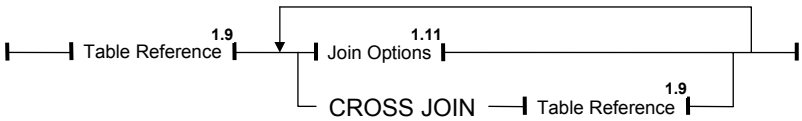
1.8. ORDER BY Clause



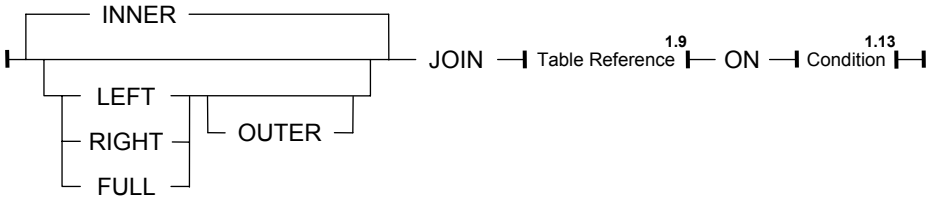
1.9. Table Reference



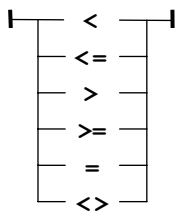
1.10. ANSI Joined Tables



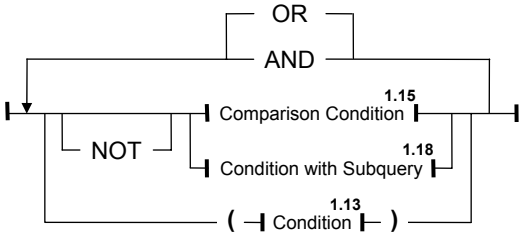
1.11. Join Options



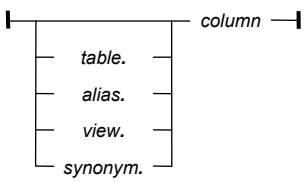
1.12. Relational Operator



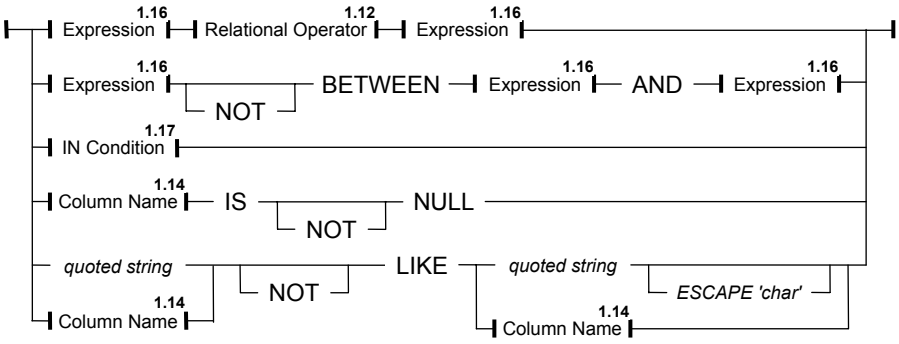
1.13. Condition



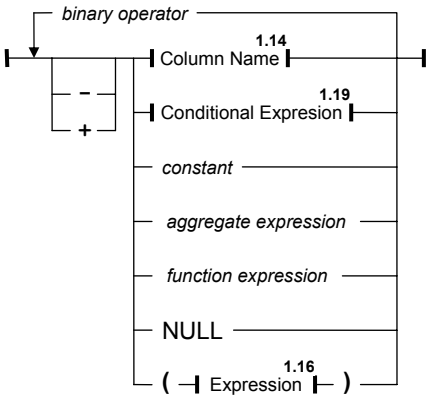
1.14. Column Name



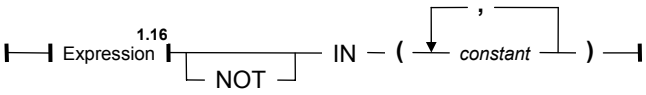
1.15. Comparison Condition



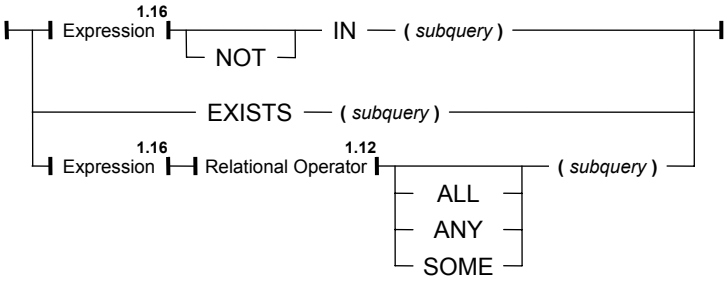
1.16. Expression



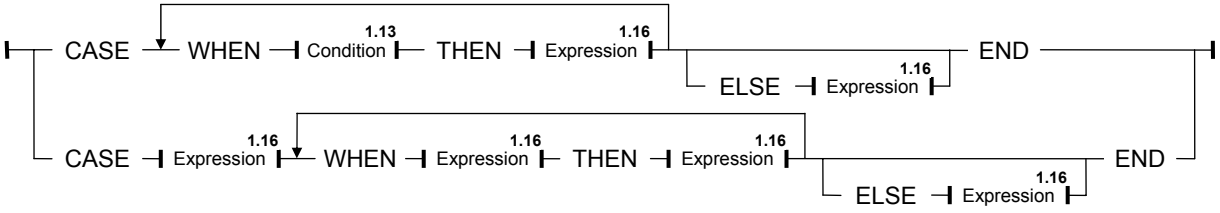
1.17. IN Condition



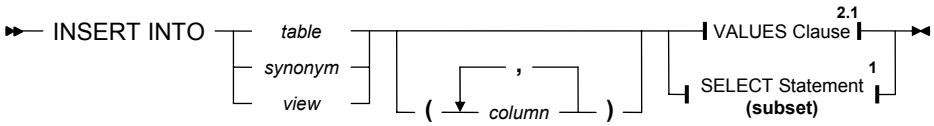
1.18. Condition with Subquery



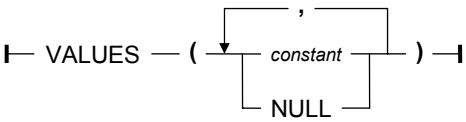
1.19. Conditional Expression



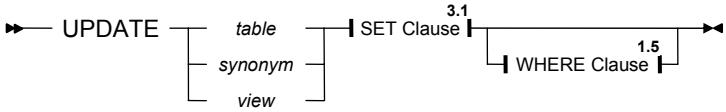
2. INSERT Statement



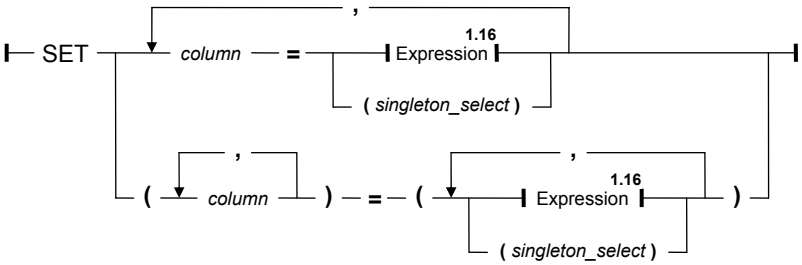
2.1. VALUES Clause



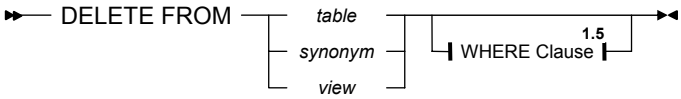
3. UPDATE Statement



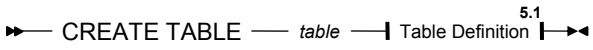
3.1. SET Clause



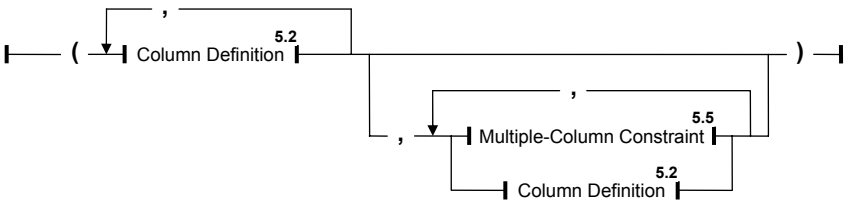
4. DELETE Statement



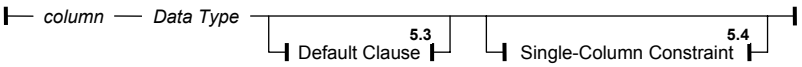
5. CREATE TABLE Statement



5.1. Table Definition

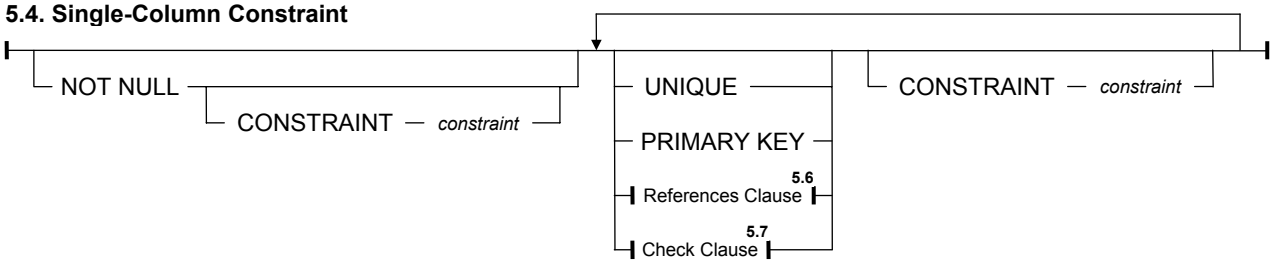


5.2. Column Definition

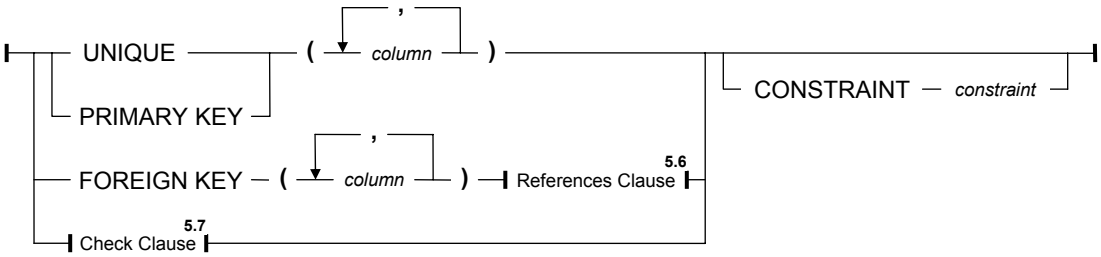


5.3. Default Clause

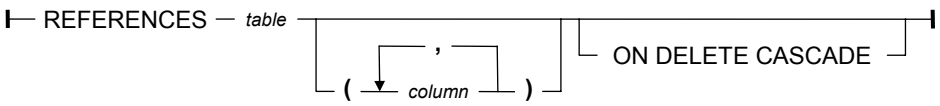
5.4. Single-Column Constraint



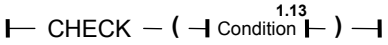
5.5. Multiple-Column Constraint



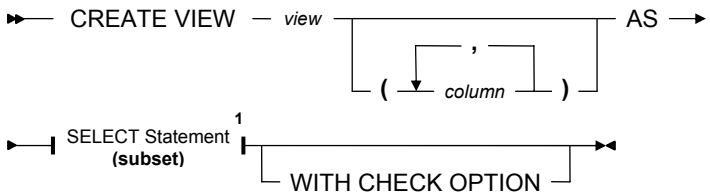
5.6. References Clause



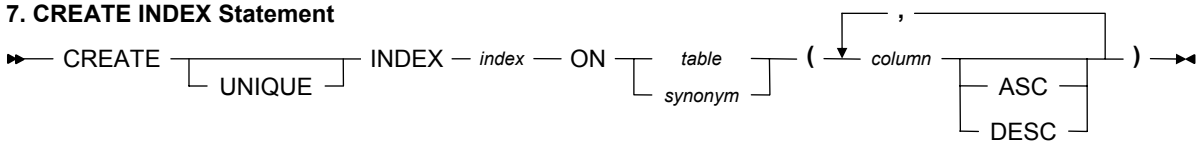
5.7. Check Clause



6. CREATE VIEW Statement



7. CREATE INDEX Statement



ABS (*num_expression*)
num_expression – izraz numeričkog tipa

MOD (*dividend, divisor*)
dividend (djeljenik) – izraz numeričkog tipa
divisor (djelitelj) – izraz numeričkog tipa

ROUND (*expression[, rounding_factor]*)
expression – izraz numeričkog tipa
rounding_factor – izraz cjelobrojnog tipa

SUBSTRING (*source_string FROM start_position [FOR length]*)
source_string – izraz tipa niza znakova
start_position – izraz cjelobrojnog tipa
length(duljina) – izraz cjelobrojnog tipa

UPPER (*expression*)
LOWER (*expression*)
expression – izraz tipa niza znakova

TRIM(*expression*)
expression – izraz tipa niza znakova

CHAR_LENGTH(*expression*)
OCTET_LENGTH(*expression*)
expression – izraz tipa niza znakova

USER
TODAY

MDY(*month*, *day*, *year*)
month – izraz cjelobrojnog tipa
day – izraz cjelobrojnog tipa
year – izraz cjelobrojnog tipa

DAY(*date_expression*)
MONTH(*date_expression*)
YEAR(*date_expression*)
WEEKDAY(*date_expression*)
date _expression – izraz tipa DATE

Za B^+-stablo reda n vrijedi

korijen:
min. broj kazaljki na podređene čvorove: **2**
maks. broj kazaljki na podređene čvorove: **n**

ostali interni čvorovi:
min. broj kazaljki na podređene čvorove: $\lceil \mathbf{n/2} \rceil$
maks. broj kazaljki na podređene čvorove: **n**

listovi:
min. broj kazaljki na zapise u blokovima s podacima: $\lceil \mathbf{(n-1)/2} \rceil$
maks. broj kazaljki na zapise u blokovima s podacima: **n-1**

```
GRANT dbPrivilege TO { PUBLIC | userList }

REVOKE dbPrivilege FROM { PUBLIC | userList }

GRANT tablePrivilegeList ON { tableName | viewName }
   TO { PUBLIC | userList | roleList }
   [ WITH GRANT OPTION ]

REVOKE tablePrivilegeList ON { tableName | viewName }
   FROM  { PUBLIC | userList | roleList }
   [ CASCADE | RESTRICT ]

CREATE ROLE roleName

DROP ROLE roleName

GRANT roleName TO { PUBLIC | userList }

REVOKE roleName FROM { PUBLIC | userList }

SET ROLE { roleName | NONE }

CREATE PRIVATE SYNONYM
   userName.synonym FOR { tableName | viewName }

DROP SYNONYM synonym
```

Posjetnik na SPL sintaksu

```
CREATE { PROCEDURE | FUNCTION } naziv (arg tip, arg LIKE rel.atr, ...)
    RETURNING tip AS ime, tip AS ime, ...

  DEFINE var tip;
  DEFINE var LIKE rel.atr;

  LET var = var + var;
  LET var = (SELECT atr FROM rel WHERE ...);
  LET var = fun(...);

  CALL fun(...) RETURNING var, var, ...;

  EXECUTE PROCEDURE proc(...);

  SELECT atr, atr, ... INTO var, var, ...
    FROM rel
    WHERE ...;

  RAISE EXCEPTION -746, 0, 'Tekst s opisom pogreške';

  IF uvjet THEN
    naredbe;
  ELIF uvjet THEN
    naredbe;
    ...
  ELSE
    naredbe;
  END IF;

  WHILE uvjet
    naredbe;
    ...
    EXIT WHILE;
    CONTINUE WHILE;
  END WHILE;

  FOR i = m TO n STEP k
    naredbe;
    ...
    EXIT FOR;
    CONTINUE FOR;
  END FOR;

  RETURN var, var, ...;
END { PROCEDURE | FUNCTION };

EXECUTE PROCEDURE naziv (arg, arg, ...);

EXECUTE FUNCTION naziv (arg, arg, ...);

DROP { PROCEDURE | FUNCTION } naziv;
```

Posjetnik na sintaksu naredbe za kreiranje okidača

```
CREATE TRIGGER naziv
  { INSERT ON rel |
    UPDATE OF atr, atr, ... ON rel |
    UPDATE ON rel |
    DELETE ON rel }
  REFERENCING NEW AS noviRedak OLD AS stariRedak
  FOR EACH ROW
    WHEN (uvjet)
    (INSERT ..., UPDATE ..., DELETE ..., EXECUTE PROCEDURE ...);


DROP TRIGGER naziv;
```