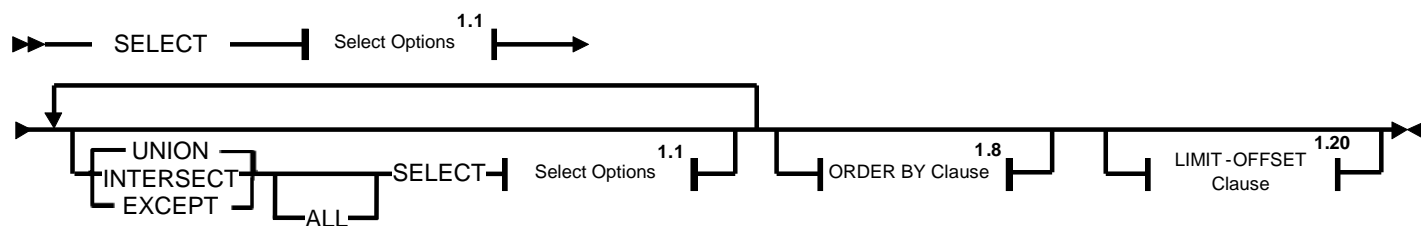
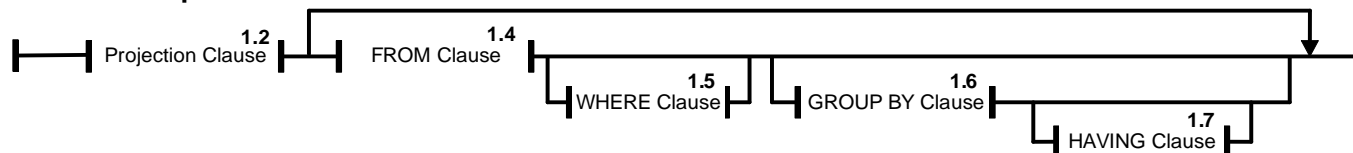
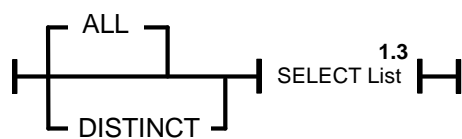
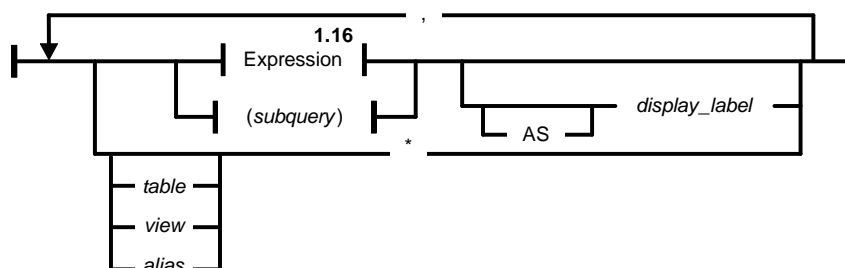
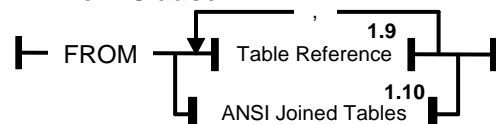
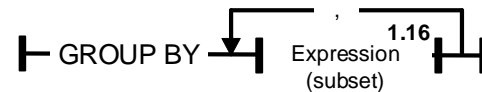
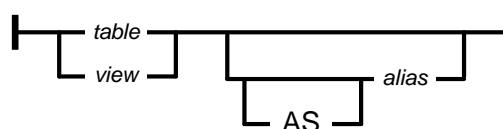
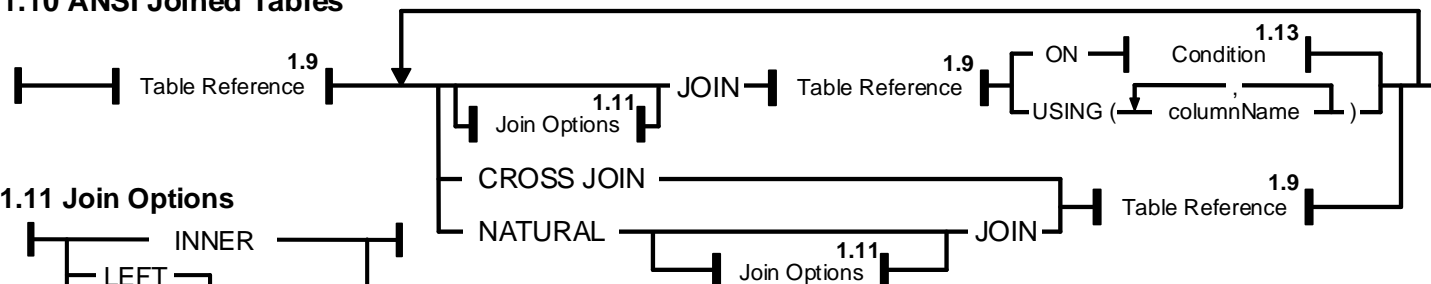
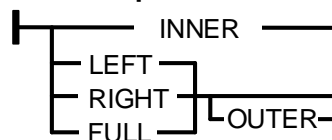
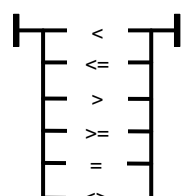
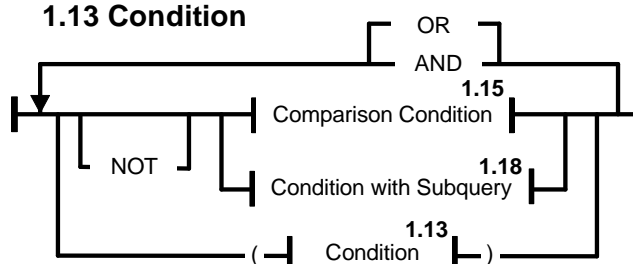
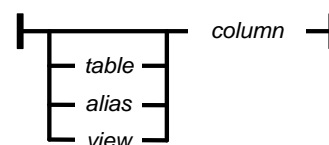
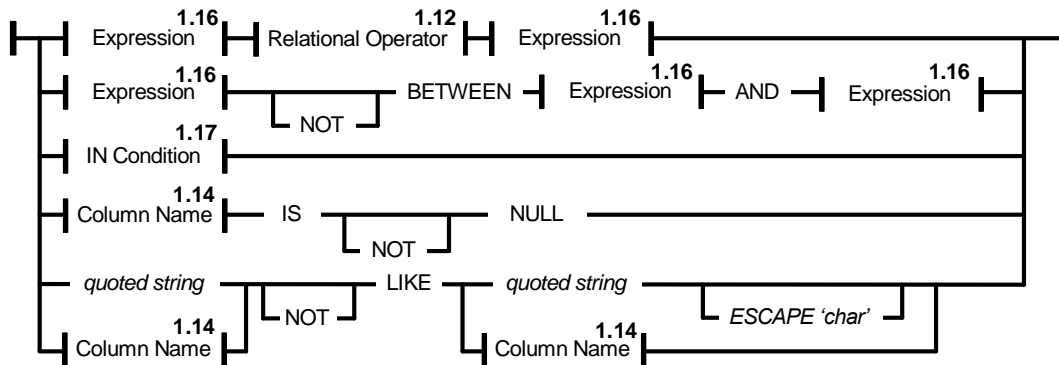
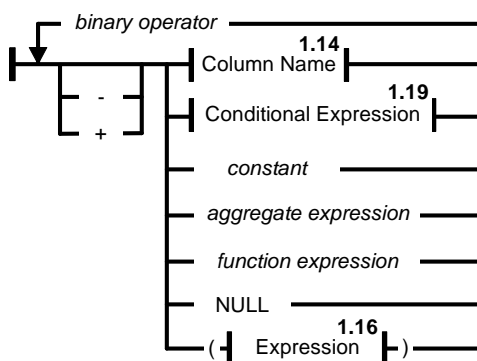


1. SELECT Statement**1.1 SELECT Options****1.2 Projection Clause****1.3 SELECT List****1.4 From Clause****1.5 WHERE Clause****1.6 GROUP BY Clause****1.7 HAVING Clause****1.8 ORDER BY Clause****1.9 Table Reference****1.10 ANSI Joined Tables****1.11 Join Options****1.12 Relational Operator****1.13 Condition****1.14 Column name**

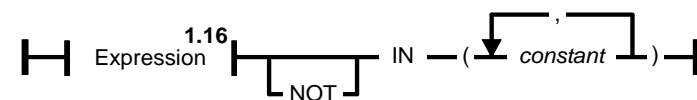
1.15 Comparison Condition



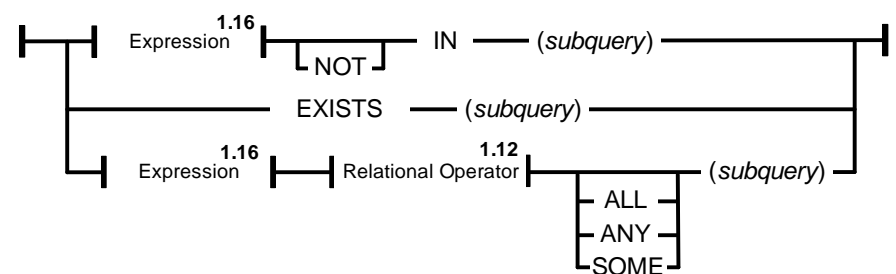
1.16 Expression



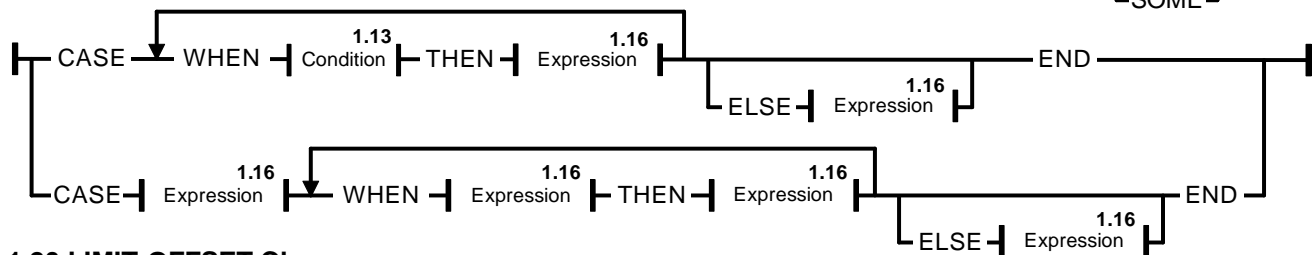
1.17 IN Condition



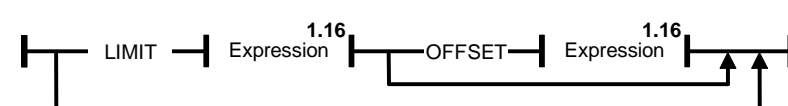
1.18 Condition with Subquery



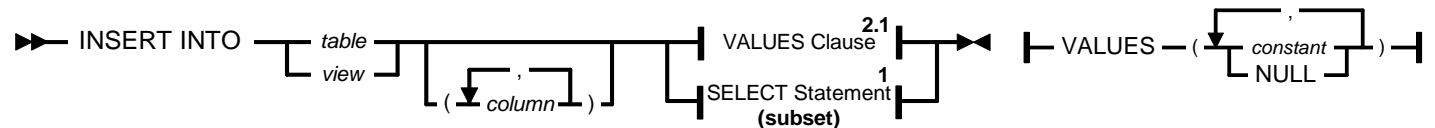
1.19 Conditional Expression



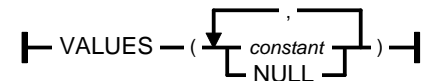
1.20 LIMIT-OFFSET Clause



2. INSERT Statement



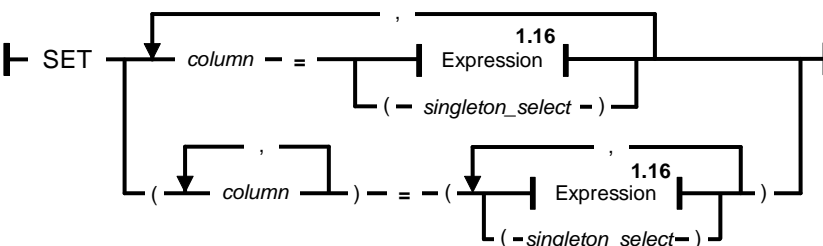
2.1 VALUES Clause

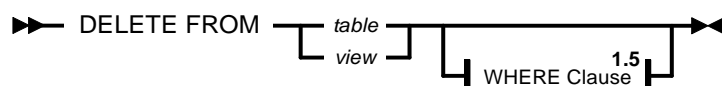
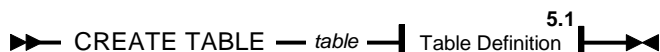
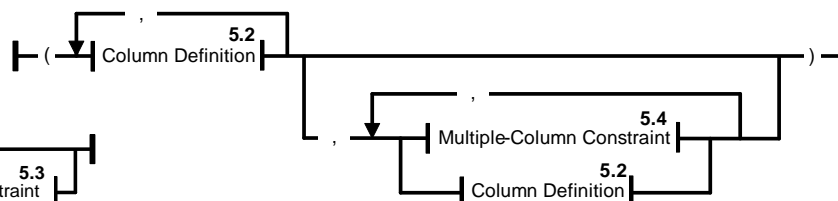
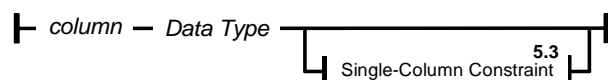
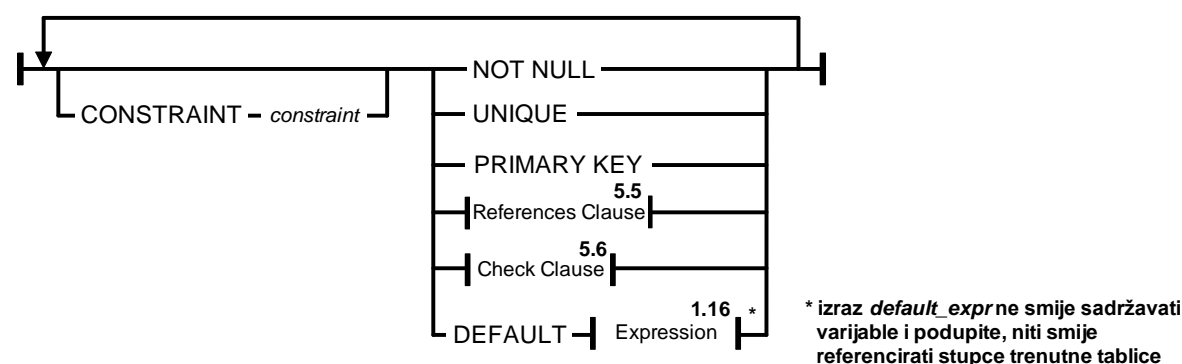
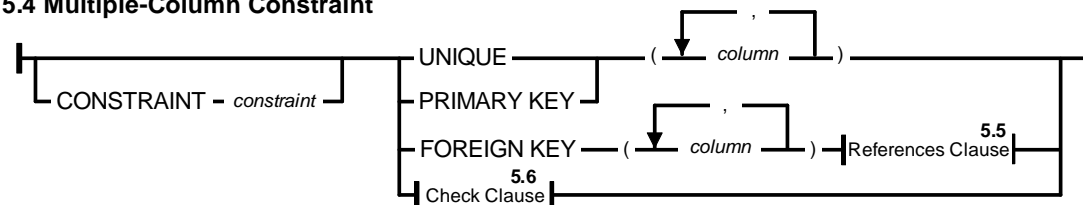
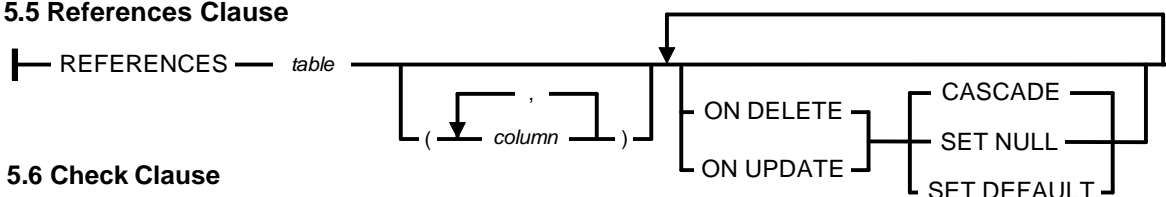
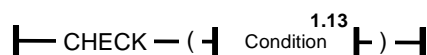
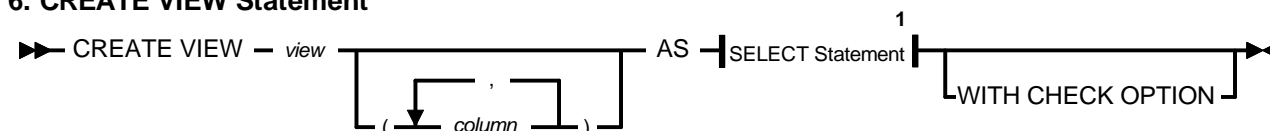
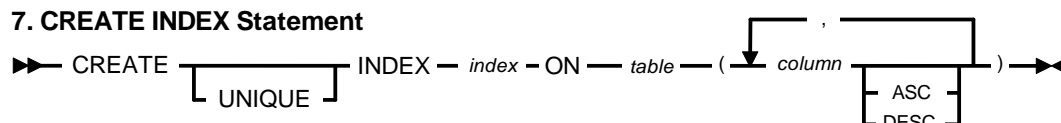


3. UPDATE Statement



3.1 SET Clause



4. DELETE Statement**5. CREATE TABLE Statement****5.1 Table Definition****5.2 Column Definition****5.3 Single-Column Constraint****5.4 Multiple-Column Constraint****5.5 References Clause****5.6 Check Clause****6. CREATE VIEW Statement****7. CREATE INDEX Statement****8. ALTER TABLE Statement**

CAST (expression AS type)ili **expression::type****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**CURRENT_USER****CURRENT_DATE****CURRENT_TIME***HH:MI:SS.xxxxxx***CURRENT_TIMESTAMP***DD.MM.YYYY HH:MI:SS.xxxxxx±HH***EXTRACT (field FROM source)***field* ∈ {year, month, day, hour, minute,
second, week, dow, doy}*source* – izraz tipa **TIMESTAMP**ili **INTERVAL****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: $\lceil n/2 \rceil$ maks. broj kazaljki na podređene čvorove: **n****listovi:**min. broj kazaljki na zapise u blokovima s podacima: $\lceil (n-1)/2 \rceil$ maks. broj kazaljki na zapise u blokovima s podacima: **n-1**

Posjetnik na PL/pgSQL sintaksu

```

CREATE OR REPLACE FUNCTION fname ( arg type, ...)
    RETURNS ( type | VOID ) AS $$
DECLARE var [CONSTANT] type [NOT NULL]
    [ {DEFAULT | := | = } expression ];
BEGIN
var1 = var2 + var3;
UPDATE rel SET atr = var...;
SELECT atr1, atr2, ... INTO var1, var2, ...
    FROM rel
    WHERE ...;

RAISE EXCEPTION 'Error description'
    USING HINT = 'Instruction';

IF (condition) THEN
    statements;
ELSIF (condition) THEN
    statements;
    ...
ELSE
    statements;
END IF;

FOR i IN 1..m LOOP
    statements;
    ...
END LOOP;
RETURN var;
END;
$$ LANGUAGE plpgsql
[SECURITY (INVOKER | DEFINER)];

SELECT fname (arg1, arg2, ...);
DROP FUNCTION fname;

```

```

CREATE {USER | ROLE} name
    [ [ WITH ] option [...] ];
DROP {USER | ROLE} roleName;
SET ROLE roleName;
where option can be:
    SUPERUSER | NOSUPERUSER
    | CREATEDB | NOCREATEDB
    | CREATEUSER | NOCREATEUSER
    | [ENCRYPTED | UNENCRYPTED] PASSWORD 'pwd'
    | CREATEROLE | NOCREATEROLE
    | INHERIT | NOINHERIT
    | LOGIN | NOLOGIN

GRANT dbPrivilege ON DATABASE name
    TO {roleList | PUBLIC};

REVOKE dbPrivilege ON DATABASE name
    FROM {roleList | PUBLIC};
dbPrivilege: CONNECT, CREATE

GRANT schemaPrivilege ON SCHEMA name
    TO {roleList | PUBLIC};

REVOKE schemaPrivilege ON SCHEMA name
    FROM {roleList | PUBLIC};
schemaPrivilege: ALL, USAGE, CREATE

GRANT tablePrivilegeList ON
    {ALL TABLES|tableName|viewName}
    [ IN SCHEMA name ]
    TO {roleList | PUBLIC} [WITH GRANT OPTION];

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

```

Posjetnik na sintaksu naredbe za kreiranje okidača

```

CREATE FUNCTION fname() RETURNS trigger AS $$
BEGIN
    [ SELECT... | INSERT... | UPDATE... | DELETE... ]
    ...;
IF ( TG_OP = { 'INSERT' | 'UPDATE' | 'DELETE' } ) THEN
    ...
END IF;
RAISE EXCEPTION 'message';

RETURN { NEW | NULL };
END;
$$ LANGUAGE plpgsql;

CREATE TRIGGER name
    { BEFORE | AFTER | INSTEAD OF } { event [OR ...] }
    ON table_name
    [ FOR [EACH] { ROW | STATEMENT } ]
    [ WHEN (condition) ]
EXECUTE PROCEDURE fname( arguments );
event ∈ { INSERT | UPDATE | DELETE }

```

```

tablePrivilege: SELECT [(columnList)]
UPDATE [(columnList)]
INSERT [(columnList)]
DELETE
ili ALL (zamjenjuje sve op.)

CREATE SCHEMA schName;
DROP SCHEMA schName [CASCADE];

GRANT EXECUTE ON {
    FUNCTION function_name([atype [, ...] ] ) }
    TO role_specification [, ...]
    [ WITH GRANT OPTION ]

REVOKE [ GRANT OPTION FOR ] EXECUTE ON {
    FUNCTION function_name([atype [, ...] ] ) }
    FROM { [ GROUP ] role_name | PUBLIC }
    [ CASCADE | RESTRICT ]

```

Varijabla	Opis
NEW	nova vrijednost n-torke; ta n-torka će u konačnici biti zapisana (moguće ju je mijenjati). NULL, ako je DELETE ili STATEMENT lvl
OLD	stara vrijednost n-torke; NULL ako je INSERT ili STATEMENT lvl. (podsjetnik: UPD = INS + DEL)
TG_NAME	ime okidača
TG_WHEN	BEFORE, AFTER, ili INSTEAD OF
TG_LEVEL	ROW ili STATEMENT
TG_OP	INSERT, UPDATE, DELETE ili TRUNCATE