**plijava 1.02 Syntax**

**program** ::= declaration\_list statement\_list END ;

**declaration\_list** ::= declaration\_list declaration ; | declaration ;

**declaration** ::= DCL identifier\_list type\_declaration ;

**identifier\_list** ::= identifier | identifier\_list , identifier ;

**type\_declaration** ::= FIXED BIN ( n ) | CHAR ( n ) | VARYING CHAR ( n )

**statement** ::= assignment\_statement

| if\_statement

| select\_statement

| do\_while\_statement

| do\_end\_statement

| put\_statement

| get\_list\_statement ;

**assignment\_statement** ::= variable\_access = expression ;

**if\_statement** ::= IF relational\_expression THEN statement

| IF relational\_expression THEN statement ELSE statement ;

**select\_statement** ::= SELECT ( expression ) WHEN ( value ) statement [ ... ] OTHER statement ;

**do\_while\_statement** ::= DO WHILE relational\_expression ;

**do\_end\_statement** ::= DO ; statement\_list END ;

**put\_statement** ::= PUT SKIP LIST ( expression\_list ) ;

**get\_list\_statement** ::= GET LIST ( identifier\_list ) ;

**expression** ::= term

| expression + term

| expression - term ;

**term** ::= factor

| term \* factor

| term / factor ;

**factor** ::= identifier

| number

| string\_literal

| ( expression ) ;

**relational\_expression** ::= expression relational\_operator expression ;

**relational\_operator** ::= = | <> | < | <= | > | >= ;

**sql\_statement** ::= ”EXEC SQL SELECT column\_list FROM table\_name WHERE condition ” into identifier ;

**column\_list** ::= column\_name

**conditio**n ::= expression relational\_operator expression

| condition AND condition

| condition OR condition

| NOT condition

| ( condition ) ;