14.6.5.2 IF Syntax

```
IF search_condition THEN statement_list
    [ELSEIF search_condition THEN statement_list] ...
    [ELSE statement_list]
END IF
```

The IF statement for stored programs implements a basic conditional construct.

Note

There is also an $\underline{\text{IF}}$ () function, which differs from the $\underline{\text{IF}}$ statement described here. See Section 13.4, "Control Flow Functions". The $\underline{\text{IF}}$ statement can have THEN, ELSE, and ELSEIF clauses, and it is terminated with END IF.

An IF ... END IF block, like all other flow-control blocks used within stored programs, must be terminated with a semicolon, as shown in this example:

```
DELIMITER //
CREATE FUNCTION SimpleCompare(n INT, m INT)
 RETURNS VARCHAR (20)
  BEGIN
    DECLARE s VARCHAR (20);
   IF n > m THEN SET s = '>';
   ELSEIF n = m THEN SET s = '=';
   ELSE SET s = '<';
    END IF;
    SET s = CONCAT(n, ', s, ', m);
    RETURN s;
```

```
END //
DELIMITER ;
```

As with other flow-control constructs, IF ... END IF blocks may be nested within other flow-control constructs, including other <u>IF</u> statements. Each <u>IF</u> must be terminated by its own END IF followed by a semicolon. You can use indentation to make nested flow-control blocks more easily readable by humans (although this is not required by MySQL), as shown here:

```
DELIMITER //

CREATE FUNCTION VerboseCompare (n INT, m INT)

RETURNS VARCHAR(50)

BEGIN

DECLARE s VARCHAR(50);

If n = m THEN SET s = 'equals';

ELSE

If n > m THEN SET s = 'greater';

ELSE SET s = 'less';

END IF;

SET s = CONCAT('is ', s, ' than');

END IF;

SET s = CONCAT(n, ' ', s, ' ', m, '.');

RETURN s;

END //

DELIMITER;
```

In this example, the inner IF is evaluated only if n is not equal to m.